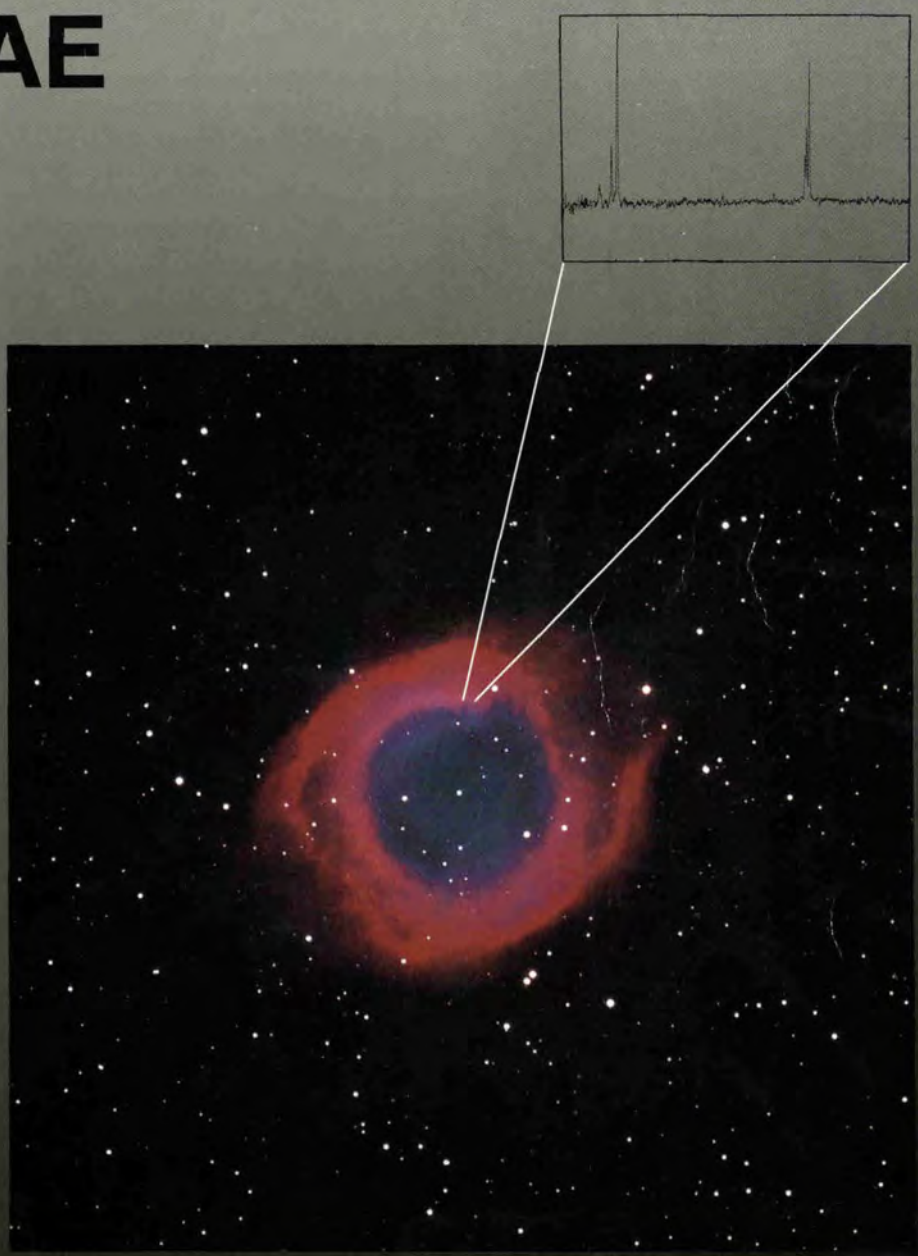
STRASBOURG-ESO CATALOGUE OF GALACTIC PLANETARY NEBULAE

PART I



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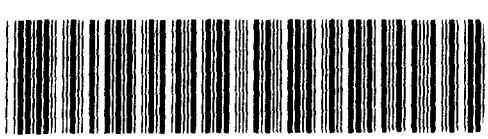
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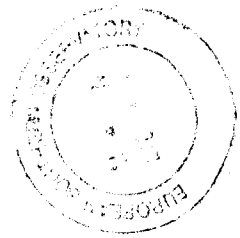
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THE STRASBOURG-ESO CATALOGUE of GALACTIC PLANETARY NEBULAE



Part I

A. Explanation of the Catalogue

B. Tables

C. References of papers containing 20 objects or more

D. Finding Charts

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— 1992 —

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A. EXPLANATION OF THE CATALOGUE

1 INTRODUCTION

Planetary nebulae are fascinating astronomical objects, varied, not easily classifiable, and interesting in all spectral regions: each wavelength range brings its specific information, and from their combination the object called "planetary nebula" (PN) can be perceived and described as a state in stellar evolution towards which our own sun will turn billions of years from now.

Presently, two main catalogues concerning planetary nebulae have been in common use. The *Catalogue of Galactic Planetary Nebulae* (CGPN) by Perek and Kohoutek (1967) contains 1036 objects (including probable and possible PN), and the *Catalogue of the Central Stars of True and Possible Planetary Nebulae* by Acker *et al.* (1982) provides information about 480 objects. Other catalogues in use give only specific data on samples of planetary nebulae observed in various spectral regions (see the review by Acker, 1989).

Since the publication of the CGPN 25 years ago, there has been a general increase of the interest in planetary nebulae. This is illustrated in the steadily increase of papers related to the subject. Improvements in stellar evolution theory give us now a better understanding of the planetary nebula phenomenon, even if there is much more to do in this field. On the observational side, photographic emulsions as photon detectors are being abandoned in favour of new types with high quantum efficiency, near-linear response and digital output.

It is in this context that the present catalogue differs from its predecessors. The selection of the objects populating the catalogue is mainly based on an observational programme, and a verification programme consisting of spectroscopic observations for all suspected planetary nebulae, assuming that a planetary nebula has a spectral signature which can easy be recognised. This may sound simple and straightforward, but, as we will see, is more complicated than that.

For the present catalogue, a list of 1820 objects, each of them called at least once a planetary nebula, have been inspected; 1143 of them have been classified as true or probable planetary nebulae by the authors of the catalogue (Tables 1); 347 objects, which status is still unclear, were classified among the "possible" planetary nebulae (Table 2). Finally, 330 objects have been rejected, on various grounds, from the community of planetary nebulae (Table 3).

2 THE SPECTROSCOPIC SURVEY

With the introduction, some years ago, of new types of detectors of high sensitivity, it became possible to record spectra of very faint objects, which could not be investigated during the photographic era. The *Image Dissector Scanner* (IDS) came into use during the late 1970's and the *Charge Coupled Device* (CCD) became a standard astronomical detector in the middle of the 1980's.

Following the experiences from IDS observations at the *European Southern Observatory* (ESO), an observational programme was designed, aiming at a spectroscopic survey of the known or suspected population of planetary nebulae (Stenholm and Lundström, 1984; Stenholm, 1986; Stenholm and Acker, 1987). The idea was to observe all objects in a similar way, southern objects from ESO (1.52 m telescope) and northern objects from *Observatoire de Haute Provence* (OHP) (1.93 m telescope). The observations started at ESO in July 1985, and the last observations were performed there in June 1991. At OHP the observations started in July 1986, and the last run occured in October 1989. The overall result consists in about 1450 observed objects, some observed more than once. Some objects were also observed in the course of other programmes at ESO in 1983 and 1984.

The hardware evolved during the observation period which spread over several years, essentially at ESO. The following summarises the instrumentation:

	ESO (1983-1986)
Telescope	1.52 m
Spectrograph	Boller & Chivens
Detector	IDS (one-dimensional, 2053 pixels)
Aperture	Quadratic windows $4'' \times 4''$, simultaneous object and sky observation
Approximative wavelength range	400-740 nm
Dispersion	17 nm/mm
Standard exposure time	10 min.
	ESO (1987-1991)
Telescope	1.52 m
Spectrograph	Boller & Chivens
Detector	CCD (two-dimensional, 512 × 1024 pixels)
Slit width	$4''$
Approximative wavelength range	390-740 nm
Dispersion	26 nm/mm
Standard exposure time	10 min.
	OHP (1986-1989)
Telescope	1.93 m
Spectrograph	CARELEC
Detector	CCD (two-dimensional, 323 × 512 pixels)
Slit width	$2.5''$
Approximative wavelength range	385-740 nm
Dispersion	26 nm/mm
Standard exposure time	10 min.

Detailed information on observation and reduction techniques will be presented in an annex to this catalogue called *An Atlas of Planetary Nebulae Spectrogrammes*, where also details about the measurements of spectral line strengths will be given. Some information can already be found in Stenholm and Acker (1987), and Acker and Stenholm (1987).

3 SELECTION OF OBJECTS

An ideal planetary nebula consists of two interacting parts: (1) a spherical cloud or shell of gas centred around and originating in (2) the central star, which once has expelled the gas shell during the late stages of its evolution. The central star is now a hot star of small diameter, radiating mainly in the ultraviolet spectral region, exciting the gas which reradiates most of the energy through a number of emission lines. The ideal planetary nebula has thus a well-defined outline or morphology (see e.g. A 39 = 47.0+42.4, plate 61), and the nebular component has a well-defined spectral shape in the visible region of the spectrum (see for instance Fig. 1 and Fig. 2); in other spectral regions, e.g. the radio and infrared domains, planetary nebulae also show a specific signature (see for instance Fig. 3).

In reality, the morphology and radiation patterns can vary widely between individual objects. The morphology is affected by various processes where little is known: the ejection mechanism, the rotation of the ejecting star, the nebular mass and the interaction between the ejected gas shell and the interstellar medium. Moreover, the morphology is practically unknown for a large fraction of the detected planetary nebulae which have a "stellar" appearance because of large distances and/or compactness. The nebular spectrum, on the other hand, is affected by the radiation properties

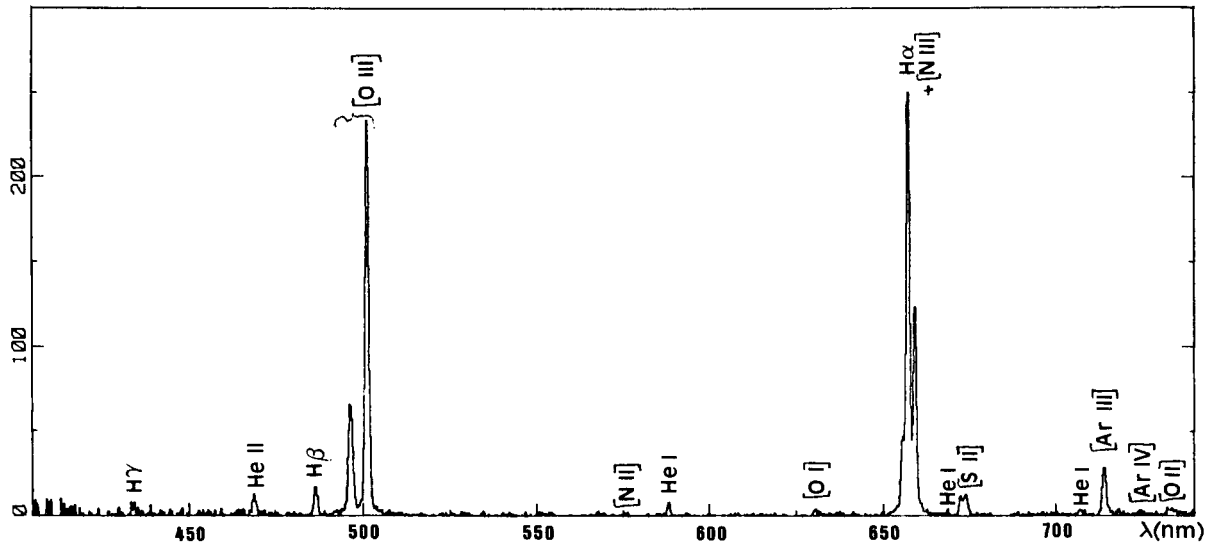


Figure 1: Spectrogram of the planetary nebula Th 3-26 (ESO, 1985)

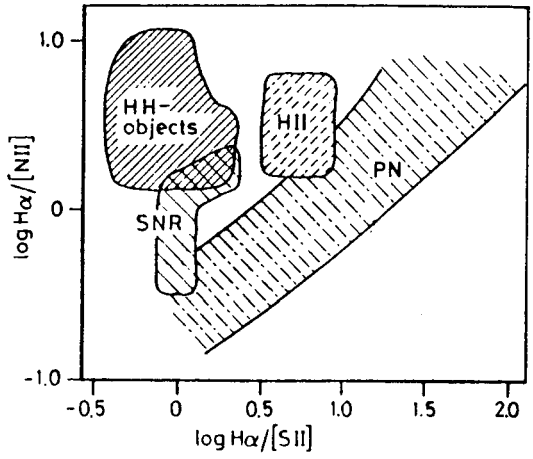


Figure 2: Intensity of the [NII] and [SII] lines relative to $H\alpha$, for various kinds of emission-line objects (from Garcia Lario *et al.*, 1991)

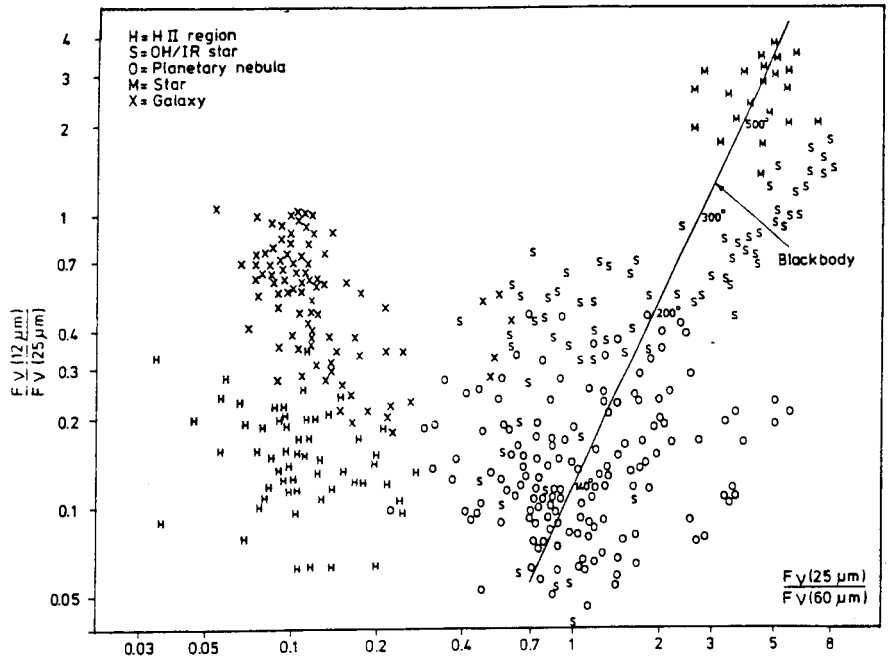


Figure 3: Flux density ratio from the IRAS point source catalogue, for various kinds of objects (Pottasch, 1987)

of the central star as well as by the physical properties of the gas shell itself and its chemical composition.

As already mentioned, the sample of 1820 objects, each called at least once a planetary nebula, have been split into three categories: the *true* and probable planetary nebulae, the *possible* planetary nebulae, and the objects which are obviously something else than planetary nebulae. The main criteria used for the classification into three groups are:

3.1 True and probable planetary nebulae (Tables 1)

1. Objects with properties close to the ideal planetary nebula described above, preferably with an identified central star.

2. Objects with stellar or nearly stellar appearance showing a spectrum close to the ideal one. If an IRAS observation exists, it should be placed in the appropriate region of the IRAS two-colour diagram (see Fig. 3), namely:

$$\frac{F_\nu(12\mu m)}{F_\nu(25\mu m)} \leq 0.35 \quad \text{and} \quad \frac{F_\nu(25\mu m)}{F_\nu(60\mu m)} \geq 0.3$$

3. Objects with peculiar spectra, showing a low excitation, sometimes with an infrared excess and molecular emission. Such objects could be young planetary nebulae, according to stellar evolution theory, provided they are compact and have a high electronic density.

3.2 Possible planetary nebulae (Table 2)

1. Objects without published finding charts, which therefore could not be identified and observed correctly, e.g. the many objects in Wray (1966) and the ESO-objects listed by Lauberts (1982). In this category fall also the IRAS sources with the appropriate colours, some of them being confirmed by VLA observations, but without an optical counterpart (see Pottasch *et al.*, 1988; Ratag *et al.*, 1990). Ratag and Pottasch (1991) report the detection at $6cm$ of 74 new IRAS sources with PN colours; these objects are not included in Table 2.

2. Objects proposed as possible planetary nebulae by the discoverer, for which no spectrum could be detected (**U**); faint objects highly reddened showing only a weak Hα emission (**H**), and showing sometimes IRAS colours typical of a H II region (**H2?**); objects with only a faint continuum (*?).

3. Objects of unclear status with a well known emission line spectrum (**), objects possibly related to planetary nebulae and objects which could evolve into planetary nebulae, e.g. HBV 475, or V1016 Cyg or HM Sge.

Other comments in Table 2 are taken from Ratag *et al.* (1990); their spectroscopic observations (not yet published) show that some objects are PN of high or normal excitation, low excitation sources (**LE**), or probable proto-PN (**PPN**).

In addition, the interested reader could consult the list of IRAS objects being possible planetary nebulae established by Preite-Martinez (1988). Specific studies on *proto-planetary nebulae* may be found in the Proceedings of the IAU Symposia devoted to planetary nebulae (1978, 1983, 1989) and the references herein, and in the Proceedings of the Frascati Workshop *Planetary and Proto-Planetary Nebulae: from IRAS to ISO* (1987, Preite-Martinez, Ed.), of the Montpellier Workshop *From Miras to Planetary Nebulae* (1990, Omont, Mennessier, Ed.), and especially in the recent works by te Lintel Hekkert (1990, 1991).

3.3 Objects of essentially non-planetary nebula nature (Table 3)

1. Stellar objects showing a continuous spectrum, like M-stars, or showing a stellar continuum with emission lines not typical of planetary nebulae, like Be-stars, or Me-stars, or symbiotic stars.

2. Objects showing an emission-line spectrum but with a significant redshift, being thus galaxies.

3. HII-regions with low-excited optical spectrum, confirmed by the position in the IRAS two-colour diagram, a bright radio flux and molecular emission.

4. Non-existing objects, e.g. plate defects.

It is obvious that these criteria are not always accurate enough to give unambiguous and complete classifications. For example, the status of H2-12 remains unclear, this object being perhaps a supernova remnant. The situation is particularly unclear if the spectrum shows a very high interstellar extinction, hiding all lines in the blue region. Much time has been spent by the authors to formulate these criteria and to use them for all individual objects. However, a good portion of courage made the final selection of objects possible.

For more details on the classification procedure, the reader may refer to the papers by Acker (1986), Acker, Chopinet, Pottasch, and Stenholm (1987), and by Acker and Stenholm (1990).

4 PRESENTATION OF THE DATA

025.8–17.9

NGC 6818, PK 25−17°1, ARO 12, Sa 2-392, VV 241, VV' 511, IRAS 19411-1416

			Disc.: Herschel 1787	*Diameter* (″)		*Rvel:* −13.0 ± 3.0	MWF88		
1950:	19 41 08.1	-14 16 27	IRAS	*opt.* 20.	CJA87	*Expansion Velocities* (*km/s*)			
	19 41 09.0	-14 16 21	Mi73		CaKa71	[OIII]	27.6	MWF88	
2000:	19 43 58.0	-14 09 07	.			[NII]	31	Sa84	

Intens. ($H\beta = 100$) ESO-B.C+CCD 1988-08-11						*IR Class:* N		*IRAS Fluxes* (*Jy*)		*Qual.*
HeII	468.6 *nm*	72	$H\alpha$	656.3 *nm*	298	*J*	10.90	12μm	1.56	3
[OIII]	436.3	22	[NII]	658.4	49	*H*	11.27	25μm	16.92	3
	500.7	1495	[SII]	671.7	4	*K*	10.81	60μm	19.53	3
HeI	587.6	7		673.1	6	*L*		100μm	12.46	3
lg$F_{H\beta}$	−10.48 ± .03	Ka80 , KM81, W83				*Photom.*	PeTo87	*Radio*	*2cm* 270	MiAl82
IUE Spectra:	*LW*(5)	*SW*(6)				*Spectr.*	PPOJ86	(*mJy*)	*6cm* 281	MiAl75

Central Star: AG82 381 — *B* 16.90 *Qual:* B GaPo88 *Spectrum:* WNb ? 70..9056

Notes: Monochromatic images (CJA87)
Distance (kpc) indiv.: stand. 2.2(70..9096)
Distance (kpc) stat.: 4.1(CaKa71); 2.07(MiAl75); 2.2(Ca76); 1.6(Ac78); 1.29(Da82); 4.45(PhPo84); 0.95(AGNR84); 1.5(Ma84); 1.87(CKS91)

Figure 4: Presentation of the data

4.1 Planetary nebula designation and names

Although a new designation system for planetary nebulae was introduced in the CGPN which came into some use, we introduce here a new system, however based on the same concepts as

the CGPN system. The CGPN system assigned to a planetary nebula a number formed by the galactic longitude and galactic latitude expressed in degrees; a running number was appended to differentiate the planetary nebulae falling in the same square degree. This worked well inside the CGPN, but when new objects were discovered, or had to be removed from the catalogue, the system was not well adapted: different designations could be assigned to the same object, or a new designation could refer to different objects.

To overcome these obvious difficulties, we adopted a designation system following the recommendations of IAU Commission 5 (*Astronomical Nomenclature*) with the structure

$$\text{PN G}\ell\ell\ell.\ell \pm bb.b$$

where PN means 'Planetary Nebula', G means for 'Galactic coordinates' and $\ell\ell\ell.\ell \pm bb.b$ stands for the galactic longitude and latitude respectively, **truncated** to one decimal place only. With this system, it is very unlikely that two objects will get the same designation — it did not happen within the present sample. If it will ever happen, when enough new objects have been found, we suggest to add a letter starting from B (and C etc...) to the new objects. Note that the PN G part is omitted inside this catalogue, but should be used outside the catalogue to point out the nature of the object precisely, as this designation system is also used for other astronomical objects.

Tables 1 list the true PN ordered by increasing galactic number (Table 1a), and by their usual names (Table 1b). The various names existing for each object follow the convention of the *Index and cross-identification of planetary nebulae* (Acker *et al.*, 1984), which in turn is based on the *First Dictionary of the Nomenclature of Celestial Objects* (Fernandez *et al.*, 1983). Normally the primary name is taken from the original publication, where the discovery was announced. For example, the first name of 43.3+2.2 is PM 1-276 (1988, and private communication), and not CTSS1 (1990); 283.9+9.7 was first listed as ESO 215-04 (1982) and re-discovered as DS 1 (1988); 357.1+4.4 was first named TeJu 18 (1980) and re-discovered as PBOZ 1 (1988). Some bright nebulae are known by their *surname*: NGC 2392 is often called *the Eskimo nebula*, NGC 3587 or Messier 97 is named *the Owl nebula*, NGC 6720 is *the Ring nebula* in Lyra, NGC 6853 or Messier 27 is *the Dumbbell nebula*, NGC 7293 is *the Helix nebula*. The strange object M 2-9 appears as the *Butterfly nebula*, prototype of the bipolar nebulae. A name taken from a catalog of stars is given to a nebula appearing as a bright compact disc of stellar appearance (e.g. BD+30 3639, the *Campbell's* star). An object may, however, appear in many other lists or catalogues, and such identifications are given as secondary names, listed in the Main Catalogue.

4.2 Discovery lists

The keys for the various names are given in the *Discovery lists* (Table 5). 45 of the discovery lists figured in Table V of the CGPN. The objects designated by PK refer to the CGPN (1967) and its supplementary lists by Kohoutek (1978, 1983, 1989). The objects appearing in these lists are indicated by an asterisk * in Tables 1 and 2, and by (PK) in Table 3. Among the 1143 true PN (Table 1), 846 come from the CGPN, 218 from the supplementary lists compiled by Kohoutek, and 79 were discovered recently. On the 347 possible PN (Table 2), 21 come from the CGPN and 82 from the supplementary lists. On the 330 misclassified PN (Table 3), 169 are from the CGPN and 101 from the supplementary lists.

For the true PN, the name of the discoverer and the year of discovery — or the year of publication of the discovery — is provided in the Main catalogue, in the same box as the coordinates. The reference noted *Disc* corresponds to the discovery; if the discovery occured before 1965, the reference is not listed in the bibliography, and is to be found in the CGPN (reference PK67 and in Table 5).

The object designations used in the astronomical literature is the source of some confusions: the 4 objects called Haro 1-1, 1-4, 1-8, 1-16 are T Tauri stars taken from a list by Haro (1949, *Astron. Journal* 54, 188), and are not to be confused with the planetary nebulae H 1-1, 1-4, 1-8, 1-16 taken

from Haro (1951 and 1952, see Table 5). Another example is given by the infrared source Hubble 4 in the Taurus Cloud, not to be confused with the planetary nebula Hb 4.

4.3 Coordinates

Equatorial coordinates are given for the 1950.0 and 2000.0 equinoxes, derived from the most accurate determinations, either in the optical (accuracy of about 0.1 arcmin) or in the radio range, the latter being more accurate when obtained from VLA observations ($\pm$0.5 arcsec). The coordinates supplied by IRAS are given if available ($\pm$0.5 arcmin).

4.4 Diameters

The diameters of the planetary nebulae are given in arcseconds. If available, two values are given for each nebula: the first one is determined from optical images, and the second one from radio observations.

The optical diameters refer to the main bright nebula only. The dimensions of possible outer, faint structures or halos, which are sometimes observed, are not included. In the case of nonspherical nebulae, a kind of mean value is given, indicating the approximate quality of the figure. Some values are deduced by the authors, either from the spatial extension of the CCD spectra (reference ATS91), or from the nebular dimensions on the finding chart (reference CS90). The letters 'st' mean "stellar", i.e. the diameter does not exceed the seeing disk, which is often deduced from the appearance of the object on the finding chart.

The radio diameters have mostly been compiled from two main sources: Zijlstra, Pottasch and Bignell (1989) and Aaquist and Kwok (1990). In some other cases, when the used beam size is of the same order as the measured Gaussian diameter, the radio diameter listed here is twice the Gaussian diameter, following the discussion in Panagia and Walmsley (1978) and from Pottasch (private communication), and 1.8 FWHM Gaussian diameter for the values given by Ratag and Pottasch (1991).

4.5 Radial and expansion velocities

The mean value of the heliocentric radial velocity is given, with the corresponding accuracy, as indicated in the critical compilation by Schneider *et al.* (1983). Values of the radial velocities published recently are given in addition. Expansion velocities are taken essentially from the compilations by Sabbadin (1984) and Weinberger (1989). We list the velocity for the [O III] lines, and, if available, for the [N II] lines.

4.6 Fluxes

a) **Line intensities:**

Within the observational programme *The Spectroscopic Survey* described above, measurements of line strengths were performed, from which we extracted the relative line intensities of the most important spectral lines. The intensities are usually normalised to Hβ = 100, but when this line is weak or invisible, line intensities are normalised to Hα = 100. Note that data concerning the main lines are only given here; the complete set of measured lines will be found in the forthcoming *Atlas of Planetary Nebulae Spectrogrammes.*

In some cases, bright lines are saturated and could therefore not be measured; when the [O III] line at 500.7nm is saturated, we provide the intensity of the line at 495.7nm; a saturated Hα line is noted "sat". If the [S II] doublet is blended — which is frequent in the OHP spectra — we give the total intensity of the blend at 672nm.

Information on observatory, used spectrograph and detector, and observation date is also provided in the header of the line intensities table. The following symbols are used to indicate the slit position within the nebula:

C: center E: east N: north S: south W: west

DA means that, in the case of very large nebulae, the double aperture of the IDS is covered by the nebula; it is then more difficult to correct for the sky background.

All line intensities given in the Catalogue are derived from our observations. For large objects with a faint surface brightness, very poor or no measurements could be performed, but the bibliography generally quotes references on spectroscopic observations. A similar remark applies to bright objects, for which good spectra have been published.

b) **The Hβ flux:**

The Hβ flux is logarithmically expressed in $mW\,m^{-2}$, which is equivalent to $erg\ cm^{-2}\ s^{-1}$. It is measured directly from our spectrogrammes through an aperture of 4×4 arc seconds, and is corrected for the surface extension of the nebula (see Acker, Stenholm *et al.*, 1991). The final Hβ flux has been derived from the formula

$$\log F(H\beta) = \log F(H\beta)_m + \log f_c + \Delta$$

where $F(H\beta)_m$ is the measured flux, while

$$\Delta = -0.30(\log f_c)^{0.6}$$

The f_c factor is the ratio of the total surface of a given planetary nebula (assumed circular) to the surface effectively observed. For a planetary nebula much larger than the aperture the latter is just the area of the aperture; for a nebula comparable to the aperture size, this factor has been calculated from simple geometrical considerations, assuming that the nebula is well centered within the rectangular aperture.

The adopted Hβ fluxes result from both the values derived from our measurements, and from values derived from photoelectric observations given in the literature. The accuracy of the fluxes has been estimated either from the dispersion between the individual determinations, or from the error analysis of the original papers. However, a comparison of the results published by Webster (1969) with more recent determinations lead us to adopt a value of 0.05 for the $\log H\beta$ accuracy. As a consequence of a private communication of Cahn and Kaler, the fluxes published in papers before 1975 have been decreased by 0.02 dex in order to bring them in agreement with recent calibrations of Vega.

c) ***IUE* spectra:**

The availability of *IUE* spectra is derived from a consultation of the *IUE* Merged Log, specifying high- or low- resolution spectra taken with the long- (LW) or short- (SW) wavelength camera. The ultraviolet line intensities of about 30 planetary nebulae could be found in Boggess *et al.*, "The Universe at UV wavelengths" (NASA Ref. Publ. CP 2171, 1981).

d) **Infrared data:**

Planetary nebulae are relatively strong emitters in the infrared, and logically many IR data are available both from ground-based observations (near-IR photometry, spectrophotometry), and from the survey performed by the IRAS space mission (broad-band photometry from 10 to 100 microns, low resolution spectra of bright sources).

The infrared data presented in the Catalogue and compiled with the help of A. Preite-Martinez are:

(1) Near-IR photometric observations in the standard J, H, K, and L bands. Units are magnitudes. L-magnitudes in parenthesis refer to the non-standard L' band (Kwok *et al.*, 1986). We also give a class for the PN, based on the near-IR classification scheme of Whitelock (1985), namely : N (the major source of near-IR emission is the nebular gas), D (it is the dust), and S (it is a star, either the exciting star or a companion), or a combination of these. When more than one class is given, the classifications have been made by different authors.

References listed under the key *Photom.* may also refer to other IR photometric bands, if near-IR data are not available for that particular PN. References listed under the key *Spec* may refer to infrared spectral data of low resolution (e.g. CVF), medium/high resolution (e.g. grating), as well as to spectra recorded by the IRAS Low Resolution Spectrometer. When more than one reference is available for any of the above keys, only one is retained (usually the most recent); the other can be found in the list of references following the data box.

(2) IRAS flux densities from the IRAS Point Source Catalogue, Version 2. Details on IRAS Catalogues can be found in Beichman *et al.*, NASA Ref. Publ. RP-1190, Vol.1, 1988. Flux values are expressed in Jansky, one value per band at 12, 25, 60, and 100 μm. The digit following the flux value indicates the *quality* of the flux: quality 1 stands for upper limit, 2 for intermediate quality, and 3 for good quality data.

e) **Radio fluxes:**

Radio fluxes are given in mJy for 6 cm (5 GHz) and 2 cm (14.7 GHz), with the reference of the source. We give preferentially the 6 cm values obtained by the VLA surveys if these are available.

4.7 Central star data

The identifications of the central stars, when applicable, are given by the catalogues or lists where they appear.

The brightnesses of the central stars are usually given by their B and V magnitudes. Within the course of the spectroscopic survey (see above), B and V magnitudes were determined for 350 central stars; details about the procedure can be found in Tylenda *et al.* (1991). The adopted magnitudes result both from values derived from our measurements and from values published in the literature. The U magnitude is also given when available from the literature.

The accuracy of the magnitudes has been estimated either from the dispersion between individual determinations or from the error analysis published in the original papers. The accuracy classes are defined as follows:

$$\begin{array}{lccccc} A & & & \Delta m & < & 0.10 \\ B & 0.10 & < & \Delta m & < & 0.25 \\ C & 0.25 & < & \Delta m & < & 0.5 \\ D & 0.5 & < & \Delta m & & \end{array}$$

The letter 'P' indicates that only old photographic measurements are available, mainly taken from the CGPN. When both photographic and modern (photoelectric) B magnitudes are available, a comparison showed that the photographic magnitudes are systematically brighter by about 0.6 mag than the B magnitudes. A similar effect has been found and discussed by Shaw and Kaler (1985). For magnitudes marked with a 'P', we therefore computed B magnitudes by adding 0.6 to photographic ones. Such values have an estimated accuracy of 1 mag.

Gathier and Pottasch (1988) have determined the monochromatic fluxes of central stars, mostly at the wavelength 479.3nm. We have calculated the B magnitude by extrapolating the measured

flux at 479.3 *nm*, adopting an intrinsic flux distribution $F_\lambda \sim \lambda^{-4}$ and an individual extinction published in the literature.

The magnitudes obtained by Shao and Liller (1972) are not corrected for the nebular contribution. Following Shaw and Kaler (1985), we have taken the values of Shao and Liller as the central star magnitudes for planetary nebulae larger than about 1 arc minute. For smaller planetary nebulae their values have been considered rather as lower limits of the central star magnitudes.

Spectroscopic classification is taken from the literature, mainly from the review of Mendez *et al.* (1991). The spectral classes referenced AST91 were estimaed by us from an inspection of the spectra.

4.8 Distances

Distances are the basis of the knowledge of many physical parameters, and remain a crucial problem despite decades of study. For a few objects, 'individual' distances could be estimated from cluster membership, from spectroscopic parallax of binary companions, or from local extinction study (see the review by Sabbadin, 1986).

But for most PN only 'statistical' scales are available: a *short scale* results from the 'Shklovsky' method based on the assumption that the ionized mass is constant for all PN (Cahn and Kaler, 1971, and Cahn *et al.*, 1992), and a *long scale* results from a proper motion study (Cudworth, 1974), and independently from a stellar atmosphere study (Mendez *et al.*, 1988). The list of distances for each PN is not complete, but the list provides a range of possible distances. It should be noted that the PN belonging to the galactic bulge are located at a distance of 7.8 ± 1 kpc.

4.9 Notes

We include notes in the following cases:

(1) Proper motions exist in the Catalogue of the central stars of true and possible planetary nebulae (Acker, Gleizes *et al.*, 1982).

(2) The status of the object, according to its spectrum, is not clear. For instance, He 2-171 shows some characteristics of a symbiotic star, or H 2-12 could be a supernova remnant. In other cases, a peculiar spectrum with a very low excitation class (no or very faint [O III] lines) could reveal a young object, often of high density and of bipolar structure, e.g. CRL 618. Other objects affected by high interstellar extinction show only the red lines of $H\alpha$, [N II], [S II] and could possibly be H II regions. Other doubtful cases happen if the IRAS colors are likely those of a H II region or a OH/IR star.

(3) The PN belongs to a specific galactic population: either the halo, or the galactic bulge, according to criteria given in the corresponding references.

(4) The central star is a binary.

(5) The finding chart is confusing, or disagrees with the CGPN finding chart. Sometimes the coordinates and/or galactic denomination were wrong in the literature.

(6) Monochromatic images could be found in the literature, or from B. Balick (University of Washington, USA), M. Bässgen (Tübingen Observatory, Germany), C.T. Hua (Laboratoire d'Astronomie Spatiale, Marseille, France), R. Louise (Université de Picardie, Amiens, France), H.E. Schwartz and J. Melnick (ESO, La Serena, Chile).

4.10 Bibliography

A large bibliographic compilation was initiated in 1975, in the framework of the *Centre de Données astronomiques de Strasbourg*; 5249 papers concerning planetary nebulae were analysed. The references of all papers published after 1965 are given, in order to provide a continuation of the Catalogue of Perek and Kohoutek. We give the author's names, the name of the magazine or book, volume and page number, and the complete title of each paper, preceded by a code number; the

title often provides some interesting remarks about the objects which are not duplicated in the notes. A large fraction of the references were extracted from the *Simbad* database (see Carpuat *et al.*, 1984; Egret *et al.*, 1991). Theoretical papers which contain no object do not appear in our selection. If data are only available in paper older than 1965, we give the corresponding reference; it is the case for some $H\beta$ fluxes and some parameters of the central stars.

When the paper contains 20 objects or more, we give a code formed by the first letters on the author's names, followed by the 2 last digits of the year of publication (e.g. PK67 means *Perek and Kohoutek, 1967*). These codes appear inside or at the bottom of the data boxes, the first being PK67 and/or AG82 if the PN is to be found in these two main catalogues. All references to such papers are listed in Part I-C.

The other references are listed for each PN, indicated by a numerical code which begins with two numbers denoting the year of publication.

5 THE FINDING CHARTS

Finding charts have been constructed for all *true* planetary nebulae in the catalogue. The identification was possible either from the finding charts provided by the discoverer, appearing mainly in the CGPN, or from information communicated by the observers in the framework of the spectroscopic survey. When the identification is doubtful, an arrow pointing to the questionable object was introduced . In some cases the surface brightness is too low and the nebula is not visible; its assumed extension is marked with bars.

Each finding chart is designated by the galactic number and the usual name of the planetary nebula, and the field number of the Survey. North is up, East to the left; the scale is generally shown in the middle of each page; special scales are drawn for the large nebulae which require a special enlargement.

The position of a few new PN discovered after the realization of the plates, are given at the end of the Catalogue; these are GJJC 1, TDC 1, and He 3-1863 = CRBB1 (plate 191). In very few cases (SaSt 3-166, Wray 16-93 and Wray 16-199), no identification could be made, although a positive spectral observation was made. Future observations could clarify the situation.

The finding charts were essentially made from plates taken with the telescopes described below:

- For the southern sky, the first source is the ESO 1 *m* Schmidt telescope operating at La Silla, Chile, for the survey referred to as the *ESO B* survey (also termed the *Quick Blue Survey*) which covers 606 fields distributed from $-90°$ to $-20°$, and also for the *ESO R* survey (red survey). Each plate has a size of 30×30 *cm* and has a scale of $67.52''/mm$. The limiting magnitude for $1h$ exposure is about 21.5. The *ESO B* survey uses unsensitized IIa-O plates in combination with a 2 *mm* GG 385 filter; the exposure time is 60 min. The *ESO R* uses IIa-F plates sensitized in combination with a RG 630 filter; the exposure time is 120 min.

  The second source is the 48″ Schmidt Telescope of the Science Research Council of the United Kingdom at Siding Springs, Australia. This survey uses IIIa-J plates in combination with a GG 395 filter; the exposure time is 60 min.

- For the Northern sky, from $+90°$ to $-20°$, Palomar prints POSS E or POSS O were used.

We also used the following sources for a few planetary nebulae:

- Two CCD frames are used as finding charts for the planetary nebulae belonging to globular clusters: Ps 1 in M15, and GJJC 1 in M22.

- The fields indicated TrzR are extracts from plates taken by Terzan at the ESO 1 *m* Schmidt telescope in combination with a RG 630 filter, covering the central regions of the Milky Way.

- For bright northern nebulae, appearing as dark blobs on the Palomar plates, we replaced the conventional Finding chart by monochromatic CCD images from B. Balick made on the $2.1m$ telescope of the Kitt Peak National Observatory (see Balick, 1989).

6 STATISTICAL SUMMARY

The catalogue provides basis for a first estimation of parameters of astrophysical interest.

6.1 Galactic Distribution

The distribution of PN along the galactic coordinates (Figures 5) confirms that PN belong probably to the thick disk population, with a strong concentration toward the bulge.

The distribution is not symmetric, perhaps in relation with spiral arms inside the disk (see Fig.5b): a strong concentration can be seen in the direction of the galactic center, and some weaker concentrations are visible along spiral arms near $\ell = -75°$ (Carina), $\ell = -30°$ (Norma), $\ell = 36°$ (Scutum), and $\ell = 55°$ (Sagittarius). The Effect of the interstellar extinction is visible in the direction of the bulge (Fig. 5c).

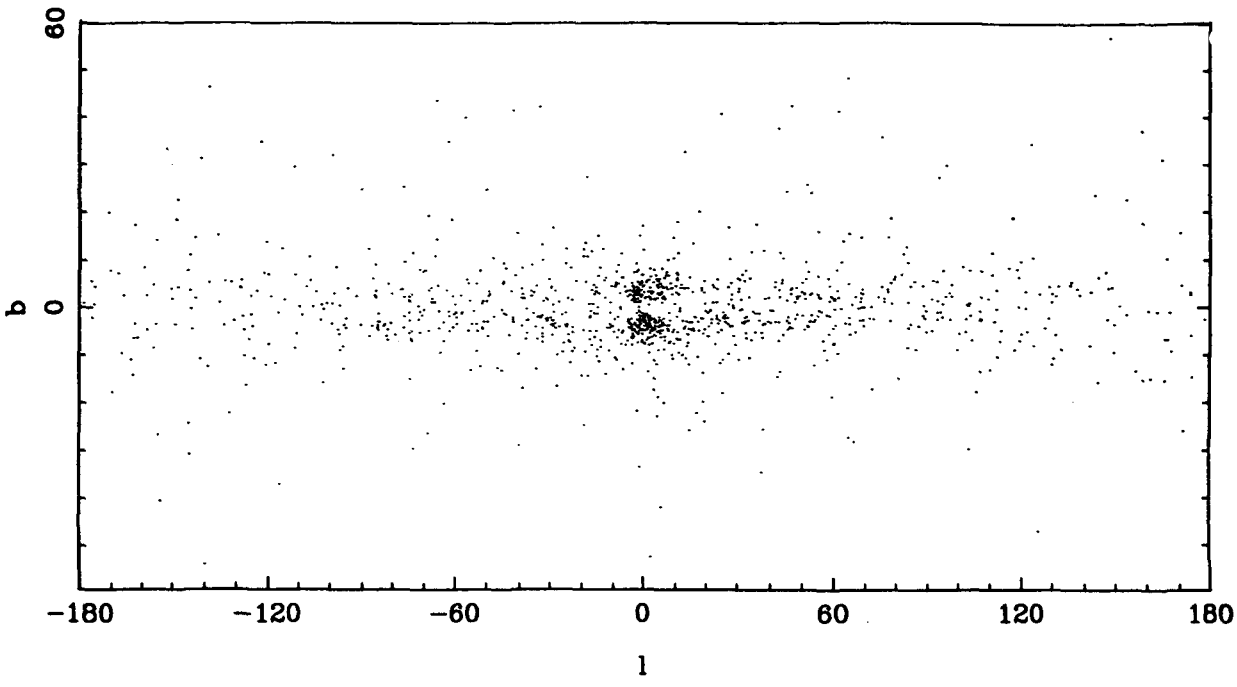


Figure 5a: Distribution of PN in galactic coordinates. Three PN have $|b| > 60°$

A high number of new possible PN were discovered in the infrared (IRAS Survey) and the radio (VLA) ranges, showing a distribution not affected by the interstellar absorption (see e.g. Pottasch *et al.*, 1988).

6.2 Angular Diameters

The frequency of angular diameters (Fig. 6) shows a strong concentration between 4 and 12 arcsec, due to the concentration of the PN toward the bulge at a distance of 8 ± 1 kpc. Due to the limited resolution of the measurements, the objects with a dimension smaller than 4 arcsec appear as "stellar" (139 occurences not shown on Fig. 6). The observed distribution of the diameters is a combination of the evolutionary expansion of the nebulae and of their distance, in relation with

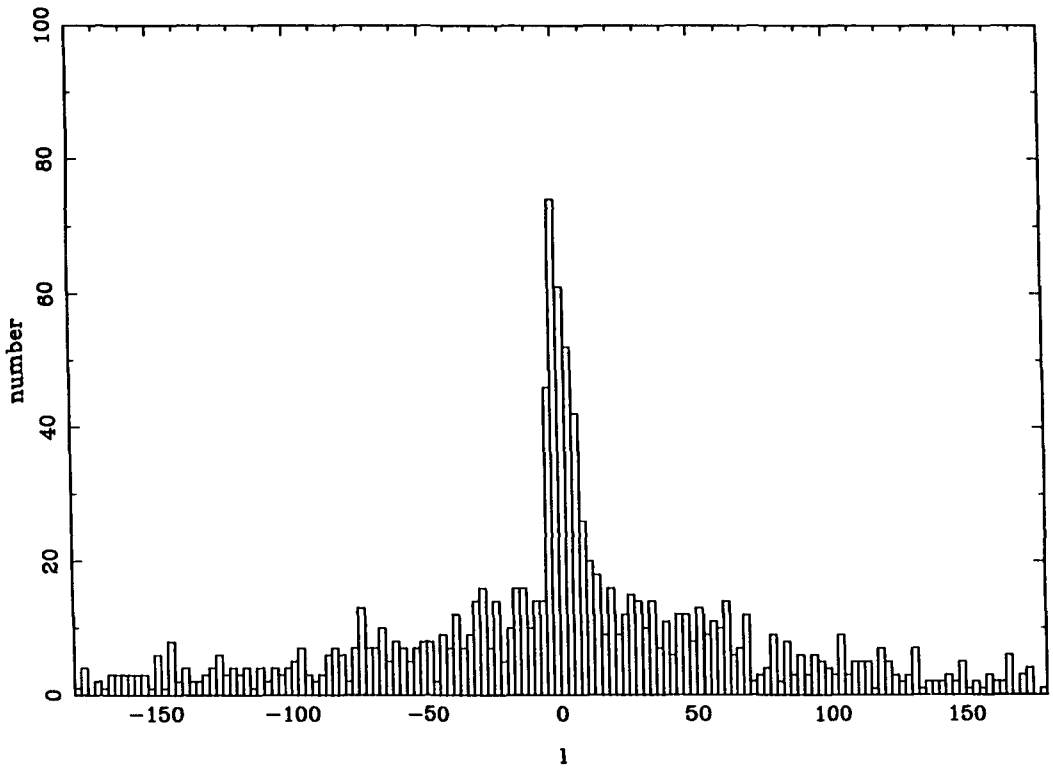


Figure 5b: Histogram of PN versus galactic longitude

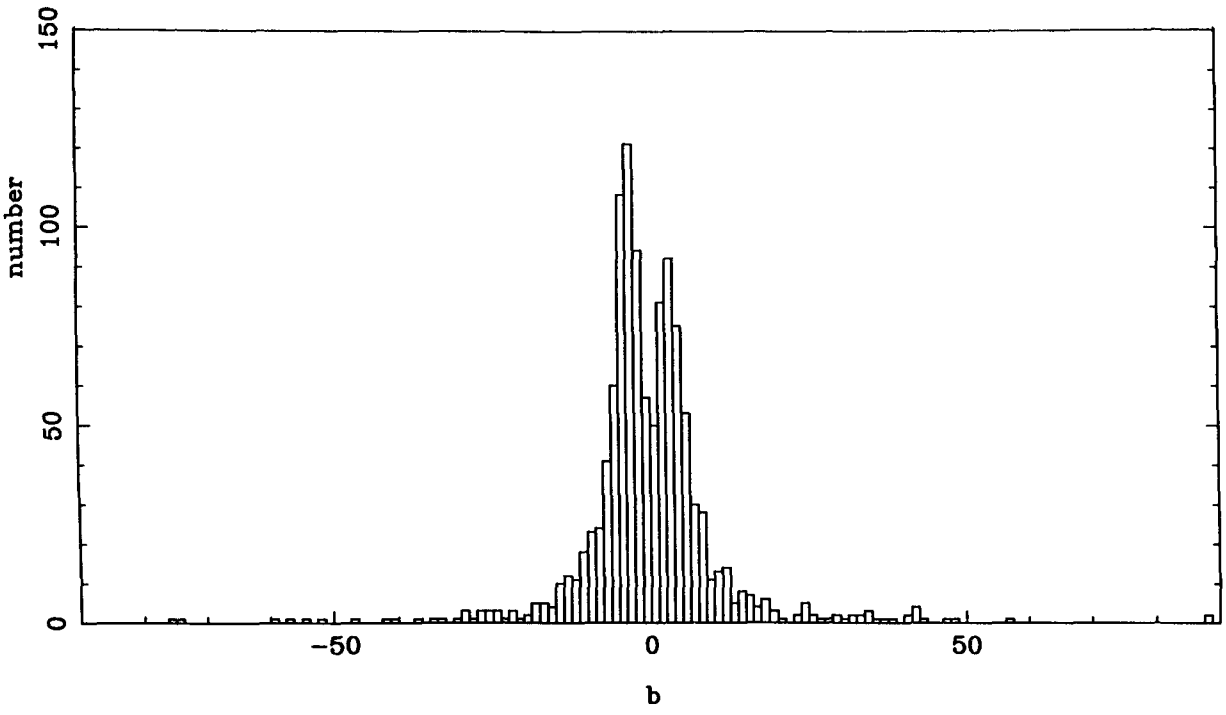


Figure 5c: Histogram of PN versus galactic latitude

their visibility: compact nebulae in their first stage of expansion look stellar and relatively bright and can therefore be detected at large distances; on the other hand, large nebulae with faint surface brightness become invisible at large distances.

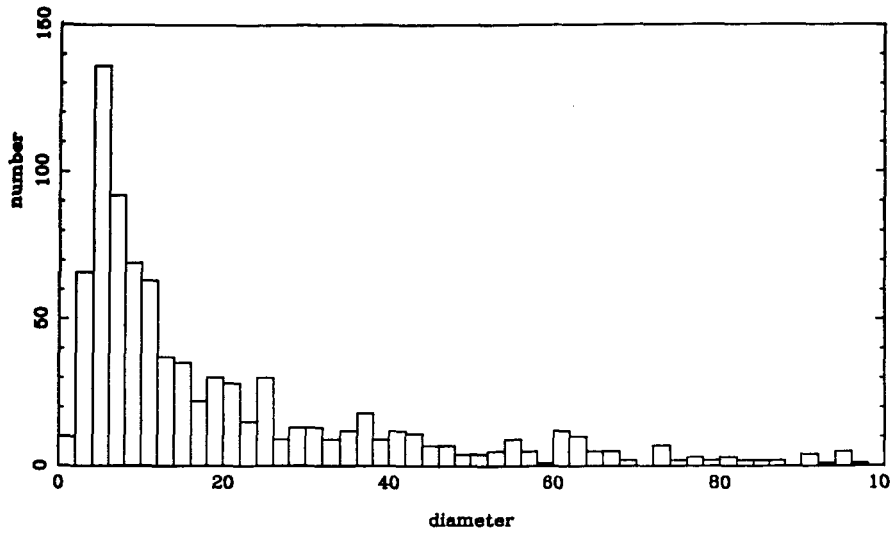


Figure 6: Histogram of angular diameters (limited to 100″)

6.3 Radial and Expansion Velocities

The radial velocity is known for 577 PN; its distribution follows the galactic rotation for the objects located in the disk (Fig. 7). The motions seem to be chaotic in the direction of the bulge.

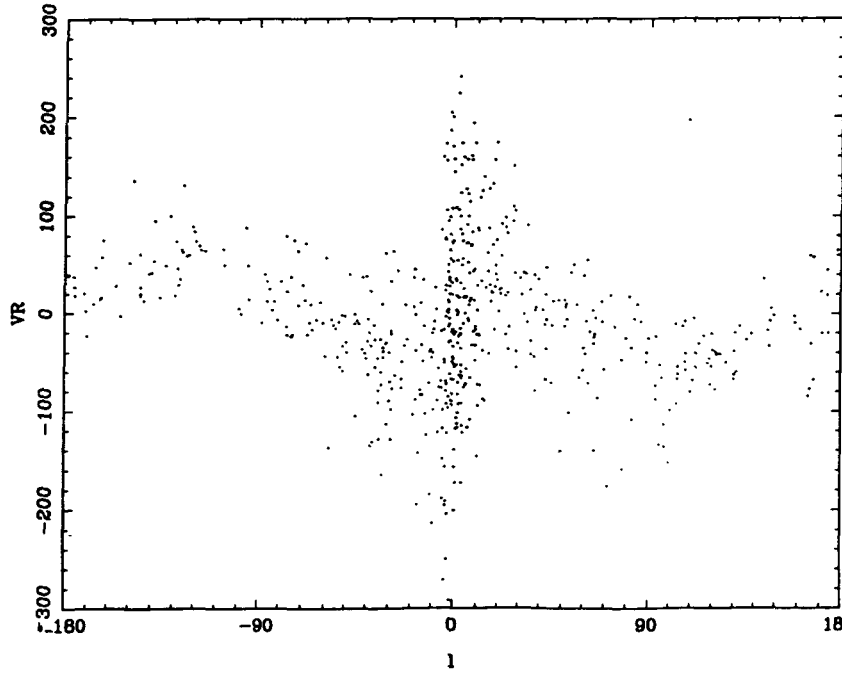


Figure 7: Radial velocity versus galactic longitude

Expansion velocities are measured for 284 PN; their distribution (Fig. 8) shows a maximum

around 14 km/sec. The observed expansion depends on the ejection velocity of the gas and the winds, and on the interaction with the interstellar medium. No obvious correlation can however be detected between the expansion velocity and the location of the PN inside or outside the dense regions of the galactic plane.

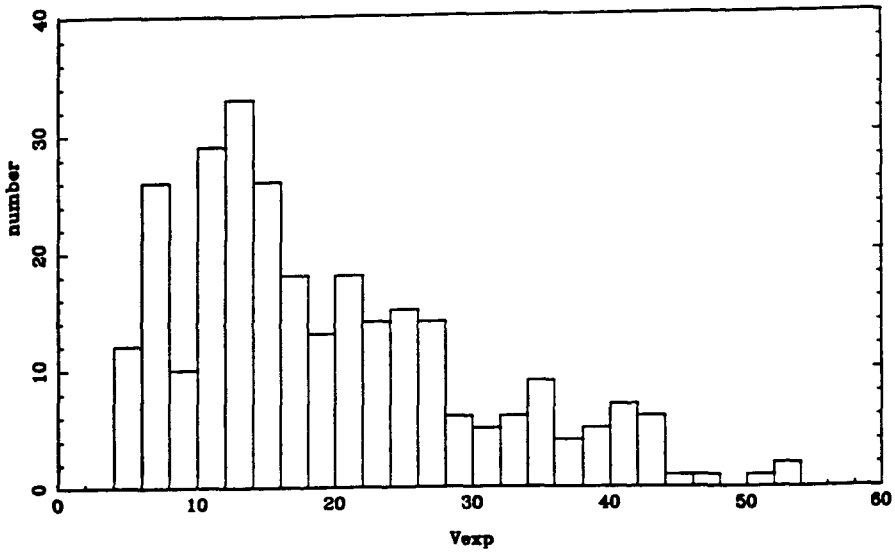


Figure 8: Histogram of expansion velocity

6.4 Spectral Energy

The spectral energy of the PN is represented by the dominant visible emissions, the near infrared and IRAS fluxes, and the radio fluxes. The emergent fluxes are emitted by three components: the stellar (essentially in the ultraviolet), the dust (in the infrared), and the nebular.

- The distributions of the $H\beta$ fluxes (known for 991 PN, see Fig. 9a) and the 6cm fluxes (known for 655 PN, see Fig. 9b) have a comparable shape; the apparent luminosity function drops for the faint fluxes, due to incompleteness of the samples. The faintest observed fluxes are emitted by the most distant objects belonging to the galactic bulge (Fig. 9c).

  The theoretical relation between the $H\beta$ and the 6 cm fluxes can be written (Pottasch, 1984):

$$F(6cm) = 3.67.10^9 F(H\beta)$$

  where the radio fluxes are expressed in Jy, and the $H\beta$ fluxes in $mW\,m^{-2}$. This relation is shown in Fig. 10 as a straight line. Most of the PN are situated above the line, which can be simply explained as due to the interstellar extinction diminishing the $H\beta$ fluxes. Positions below the theoretical relation indicate either PN optically thick in the radio, or errors in the flux measurements.

- The IRAS fluxes are known for 788 PN. Fig. 11 shows the colour-colour diagram of the 463 sources with quality 2 or 3 fluxes (see Fig. 3). The distribution shows a large dispersion: in particular, the $F(25)/F(60)$ ratio is lower than expected for several sources which appear in this diagram like H II regions. A typical example is the well known *Ring nebula* NGC 6720 ($F(12)/F(25) = 0.08, F(25)/F(60) = 0.2$).

  For dense PN the observed total infrared energy is related to the $H\beta$ flux corrected for extinction, or to the 6 cm flux, by the relation (Pottasch, 1984):

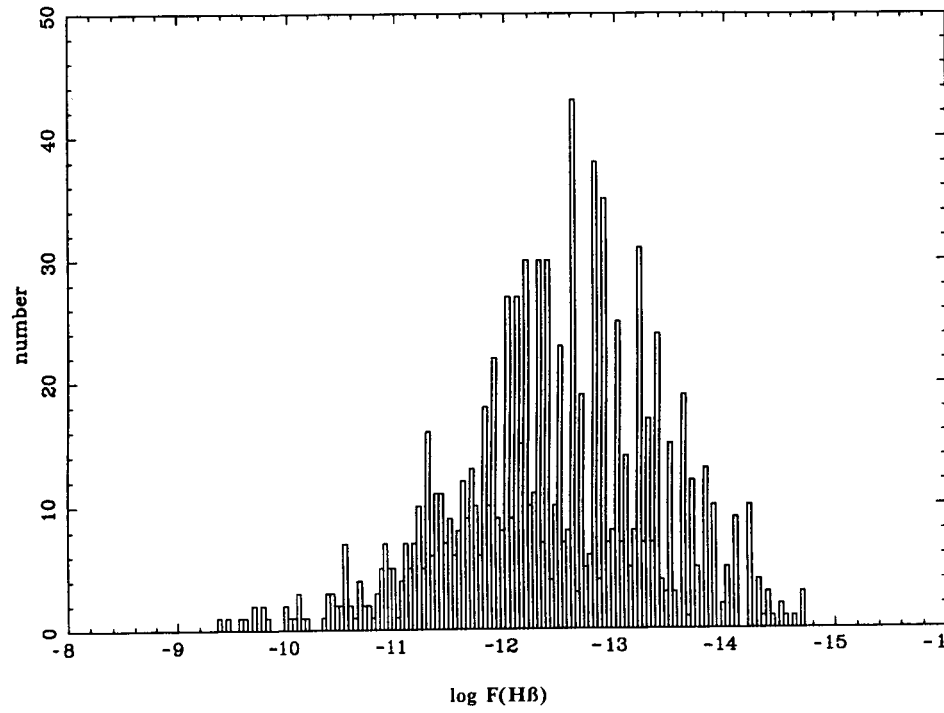


Figure 9a: Histogram of the observed $H\beta$ flux ($mW\,m^{-2}$)

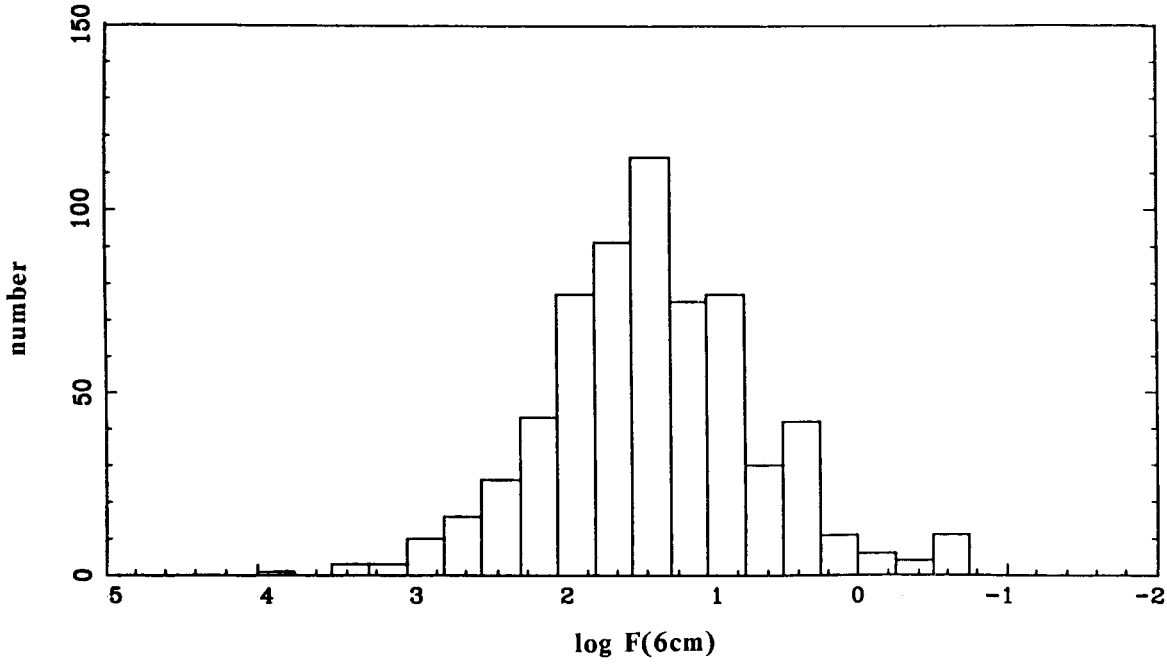


Figure 9b: Histogram of the observed 6 cm flux (mJy)

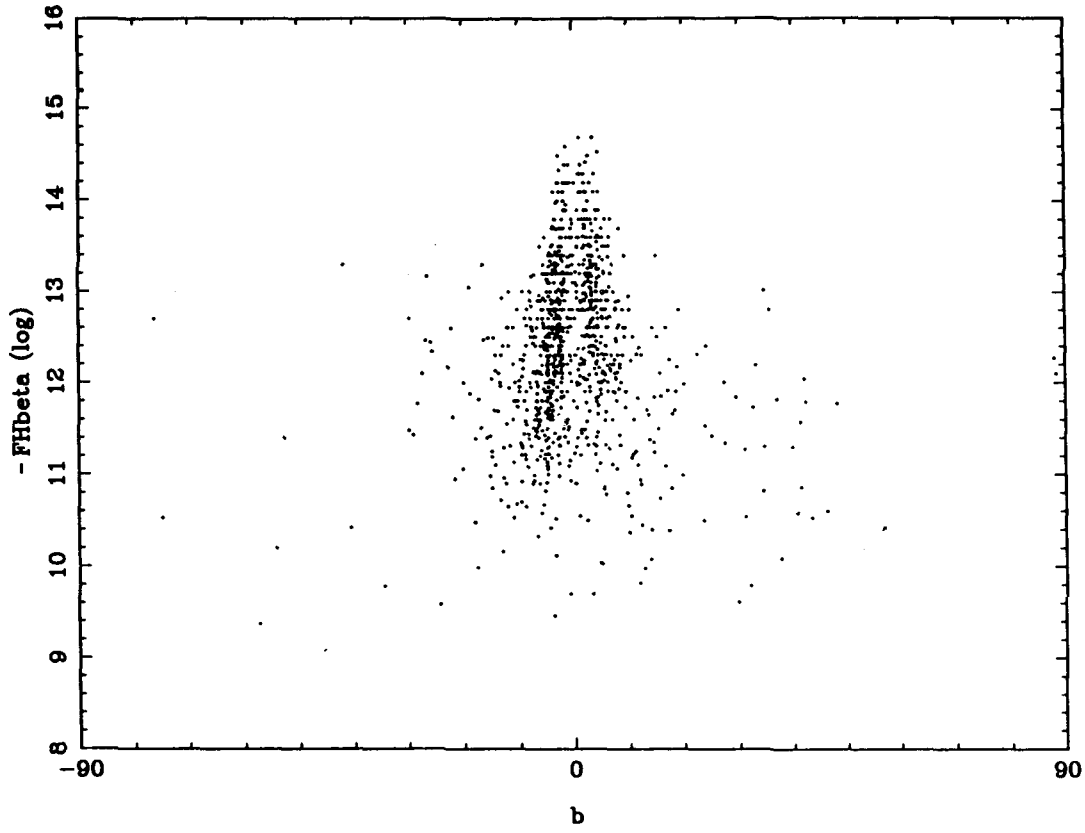


Figure 9c: $H\beta$ fluxes versus galactic latitude

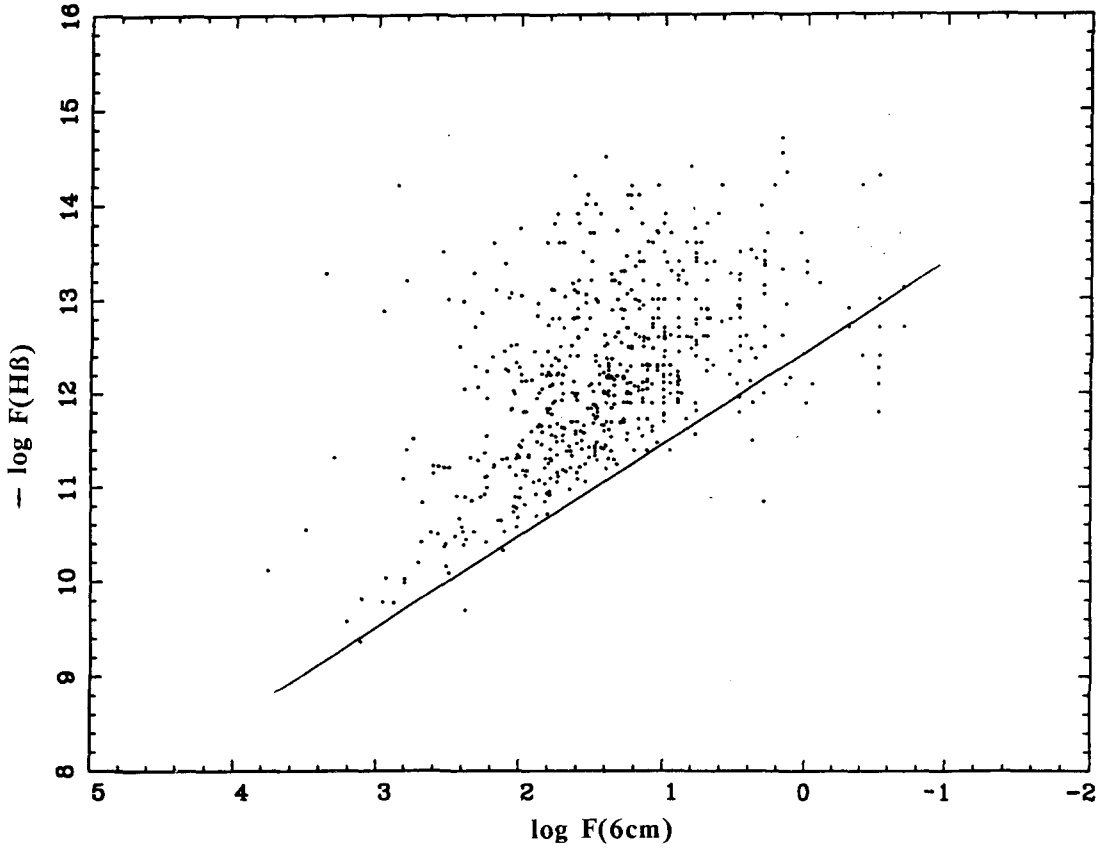


Figure 10: Relation between the observed $H\beta$ flux ($mW\,m^{-2}$) and 6 cm flux (mJy)

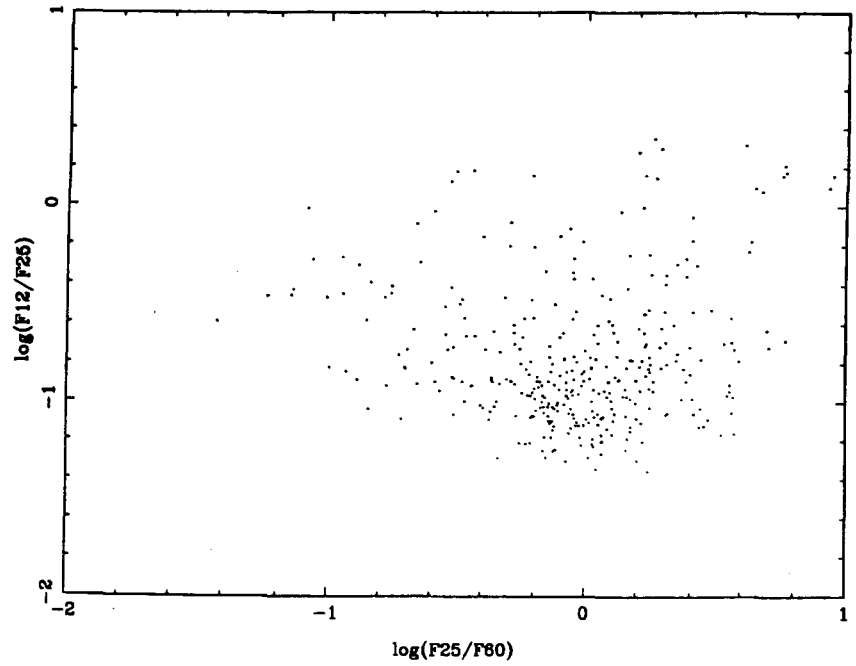


Figure 11: IRAS Colour-colour diagram of PN with quality fluxes 2 or 3

$$F^{IR}_{total} = 10^{-11}\ F(6cm)$$

where F^{IR}_{total} is expressed in $W\,m^{-2}$, and $F(6cm)$ in Jy.

7 ESTIMATION OF PHYSICAL PROPERTIES

7.1 Distances of the nebulae

7.1.1 Extinction (using $H\alpha/H\beta$)

The interstellar extinction and reddening change the ratio of the observed spectral lines; for example the relative logarithmic extinction coefficient for $H\beta/H\alpha$ is 0.325.

The extinction constant is defined as:

$$c(H\beta) = \log(F(H\beta)^{th}/F(H\beta)^{obs})$$

If we know the theoretical (th) value of a line ratio, say $F(H\alpha)/F(H\beta) = 2.85$, we can calculate c from the observed Balmer decrement:

$$c(H\beta) = \log[(F(H\alpha)/F(H\beta))^{obs}/(F(H\alpha)/F(H\beta))^{th}] \times 1/0.325$$

In the Catalogue, we give the values of $F(H\alpha)^{obs}$ relative to $F(H\beta)^{obs} = 100$. We find:

$$c(H\beta) = \log(F(H\alpha)/100/2.85) \times 1/0.325$$

$$c(H\beta) = 3.08 \log F(H\alpha)^{obs} - 7.55$$

The values listed in the Catalogue show that the extinction is generally high, which agrees with the large distances of the objects.

The extinction could also been derived from a *computation* of the $H\beta$ flux from the $6cm$ one:
$F(H\beta)^c = F(6cm) \times 10^{-9}/3.67$ giving $c(H\beta) = \log(F(H\beta)^c/F(H\beta)^{obs})$

7.1.2 Distances (using $F(H\beta)$, the diameter, and c)

The distance determination of a PN is very difficult because none of the standard methods used in astronomy can be applied: "individual" distances could be assigned only for a few objects.

1. Distances can be calculated by using a statistical method, the so-called "Shlovsky-method". Assuming that all nebulae have a *similar ionized mass* M and are *optically thin*, the distance can be expressed from the angular radius θ expressed in arcsec and the $H\beta$ flux corrected for the instellar extinction, assuming a mean value of the electronic temperature of 10^4 (see Pottasch, 1984, p.115):

$$D = 22.8 \times M^{2/5}/(FF^{1/5} \times (F(H\beta)^c)^{1/5} \times \theta^{3/5})$$

Assuming a value of 0.75 for the filling factor FF and $M = 0.2M_\odot$ for the nebular mass, with $\log F(H\beta)^c = \log F(H\beta)^{obs} + c$, we obtain the following formula if $F(H\beta)$ is expressed in $10^{-11} W\, m^{-2}$ and D in kpc:

$$\log D = 1.11 - 0.2 \log F(H\beta)^c - 0.6 \log \theta$$

As an illustration, the distance is about 3.2 kpc if the corrected $H\beta$ flux is equal to 10^{-11} and the diameter $10''$.

2. For *compact*, *dense* and *optically thick* nebulae, the mass can be expressed, either as a function of the electronic density, or as a function of the $H\beta$ flux, the distance, and the electronic density; a combination of the corresponding relations (see Pottasch, 1984), gives a distance determination, with the same units as above :

$$\log D = 0.48 - 0.5 \log F(H\beta)^c$$

7.2 The nebular parameters

Parameters of the nebular plasma can be roughly estimated from some of the lines intensities listed in the Catalogue. The relative intensities of some collisionally excited lines (the "forbbiden" lines) depend on the electronic temperature T and on the electronic density d.

7.2.1 Temperature (*using* $I(500.7)/I(463.3)$)

Computations of collisions strengths and transition probabilities give for the ratio R of the [O III] lines:

$$R = [I(500.7) + I(459.9)]/I(436.3) = 8.3 \exp(3.29.10^4/T).(1/K)$$

where $K = 1 + 4.5\ 10^{-4} \times d/T^{1/2}$ depends only slightly on the density. As shown on Fig. 12 (taken from Osterbrock, 1974, p 100), the relation can be approximated to give

$T = 3.29.10^4/\ln(R/8.3)$.

The intensity at $495.9nm$ can be estimated from theoretical considerations as:

$I(500.7) = 2.9 \times I(495.9)$

7.2.2 Density (*using* $I(673.1)/I(671.7)$)

The lines of the red doublet of [S II] are very sensitive to the electronic density, as shown on Fig. 13 (Osterbrock,1974, p 112), where the x-axis represents the electronic density for a mean value of 10^4 for T.

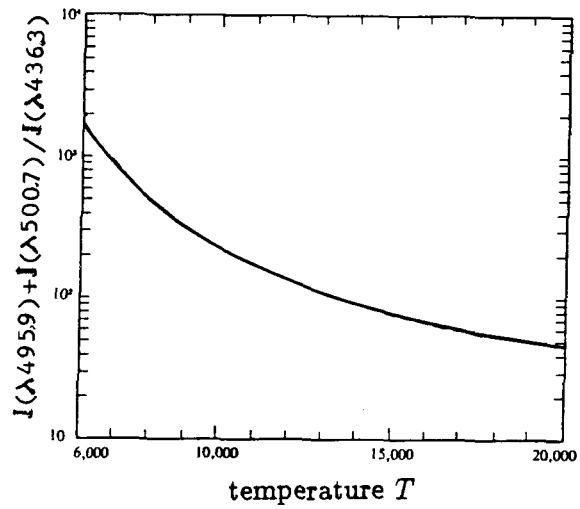


Figure 12: Intensity ratio of $[OIII]$ lines as a function of electronic temperature for low density nebulae (from Osterbrock, 1974)

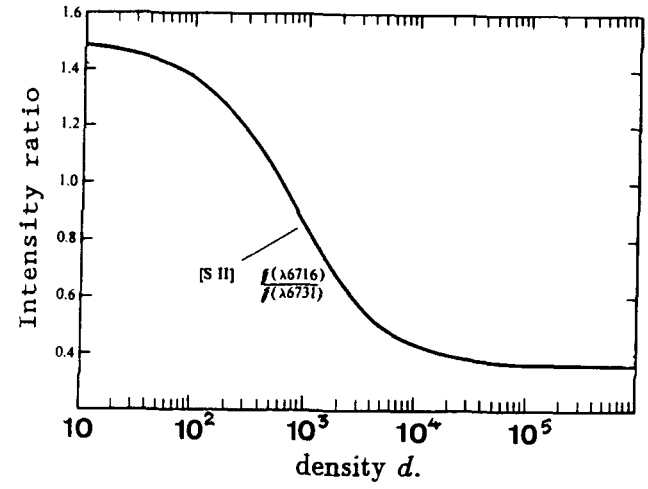


Figure 13: Intensity ratio of $[SII]$ lines as a function of electronic density assuming $T = 10^4$ (from Osterbrock, 1974)

7.3 The parameters of the central star

7.3.1 Temperature T^* (*using* $I(468.6)/I(H\beta)$ and $I(500.7)/I(H\beta)$)

A "cool" central star (20 000 K) will be surrounded by a low ionized gas, essentially neutral; a "hot" central star (100 000 K) strongly ionises the gas, which emits bright lines of [O III] and He II at 468.6nm; the intensity of these lines relative to $H\beta$ allows the determination of an *excitation class* (see Aller, 1956), loosely related to the temperature of the central star T^* (Fig.14).

7.3.2 Luminosity L^* (*using V magnitude, c, T^*, and distance D*)

1. The absolute bolometric magnitude M^* of the central star is computed from the distance and from the apparent stellar magnitude V corrected for the extinction c and with the bolometric correction $BC = -42.5 + 10 \log T^* + 29000/T^*$:

$$M^* = V - 2.11c - BC - 5 \log D + 5$$

2. The total flux emitted by the central star is absorbed and reemitted by the nebula if the nebula is *optically thick* (ionization bounded); in this case, the stellar luminosity can be related to the $H\beta$ flux. An empirical relation between the stellar flux and the $H\beta$ flux was found by Gathier and Pottasch (1989) and refined by Zhang and Kwok (1991). The empirical ratio has a median value of 160; this ratio covers however a wide range of values from about 100 to 600, or even more in the case of extremely cool central stars.

3. The position of the star on the Temperature/Luminosity diagram (Fig. 15) provides an estimate of the *stellar mass* by comparison with theoretical evolutionary tracks calculated for various masses.

   In addition, the evolutionary stage of the nebula can be estimated from the *expansion age* of the nebula by: $age(10^3 yrs) = 2.37 \times \theta \times D/V_{exp}$

   where the angular radius θ is expressed in arcsec, the expansion velocity V_{exp} in km/s, and the distance D in kpc.

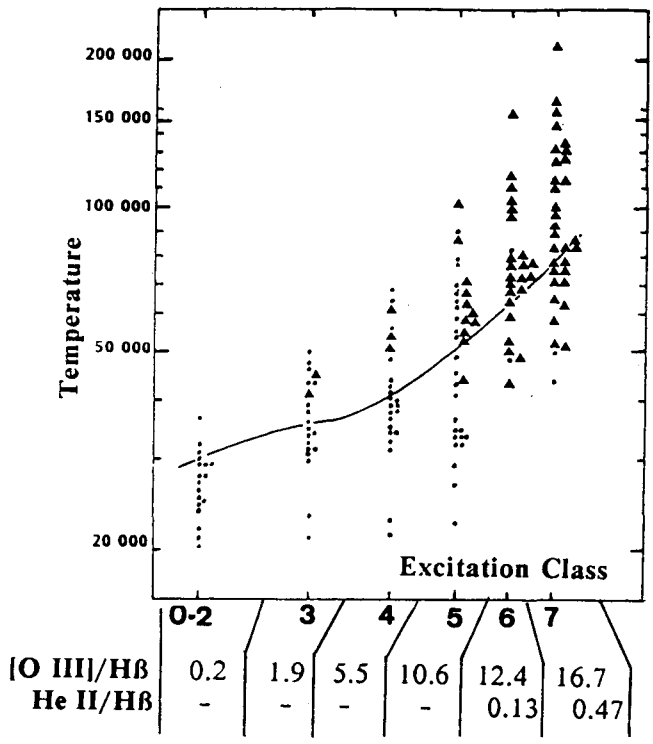


Figure 14: Temperature of the central star as a function of the excitation class of the nebula derived from typical values of line ratios (from Acker, Gleizes *et al.*, 1991)

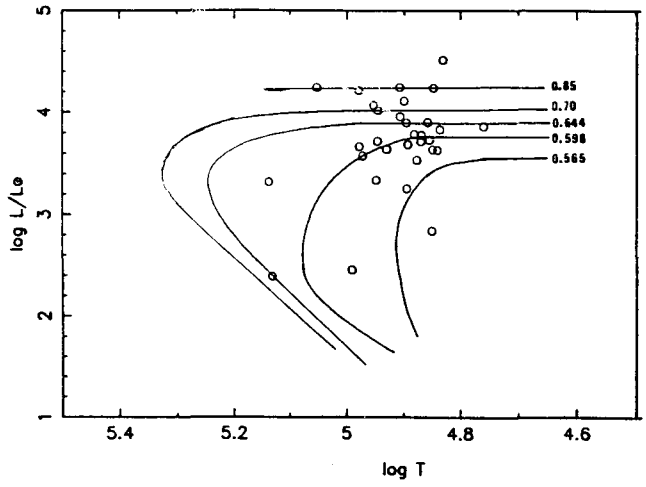


Figure 15: Temperature / Luminosity diagram for the central stars of PN. Theoretical tracks are plotted for various values of the stellar mass (from Tylenda *et al.*, 1991)

8 ACKNOWLEDGMENTS

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B. TABLES

TABLES 1: TRUE AND PROBABLE PLANETARY NEBULAE
a– ordered by increasing galactic number
b– ordered by usual name
(see section 4.1, page 5)

TABLE 2: POSSIBLE PLANETARY NEBULAE,
ordered by usual name
(description in section 3.2, page 4)

TABLE 3: MISCLASSIFIED PLANETARY NEBULAE,
ordered by usual name
(description in section 3.3, page 5)

TABLE 4: SUMMARY: list of all objects,
ordered by right ascension

TABLE 5: DISCOVERY LISTS

PN G	α_{2000} δ_{2000}	Name
000.0 − 06.8	18 13.3−32 20	H 1-62
000.1 + 17.2	16 43.8−18 57	PC 12
000.1 + 04.3	17 29.4−26 26	H 1-16
000.1 + 02.6	17 35.6−27 24	Al 2-J
000.1 − 01.1	17 50.4−29 25	M 3-43
000.1 − 02.3	17 55.4−29 58	Bl 3-10
000.1 − 05.6	18 08.4−31 37	H 2-40
000.2 − 01.9	17 53.8−29 44	M 2-19
000.2 − 04.6	18 04.7−31 03	Wray 16-363
000.3 + 12.2	17 01.6−21 50	IC 4634
000.3 + 06.9	17 20.4−24 52	Trz 41
000.3 − 02.8	17 57.7−30 02	M 3-47
000.3 − 04.6	18 05.0−30 58	M 2-28
000.4 − 01.9	17 54.4−29 36	M 2-20
000.4 − 02.9	17 58.3−30 01	M 3-19
000.5 − 01.6	17 53.4−29 17	Al 2-Q
000.5 − 03.1	17 59.3−30 03	KFL 1
000.6 − 01.3	17 52.6−29 07	Bl 3-15
000.6 − 02.3	17 56.4−29 38	H 2-32
000.7 + 04.7	17 29.4−25 49	H 2-11
000.7 + 03.2	17 34.9−26 36	He 2-250
000.7 − 02.7	17 58.2−29 44	M 2-21
000.7 − 03.7	18 02.3−30 14	M 3-22
000.7 − 07.4	18 17.6−31 57	M 2-35
000.8 − 01.5	17 53.8−28 59	Bl O
000.8 − 07.6	18 18.6−31 55	H 2-46
000.9 − 02.0	17 56.0−29 11	Bl 3-13
000.9 − 04.8	18 07.1−30 34	M 3-23
001.0 + 01.9	17 40.5−27 01	K 1-4
001.0 − 02.6	17 58.4−29 21	Sa 3-104
001.1 − 01.6	17 54.9−28 49	Sa 3-92
001.2 + 02.1	17 40.3−26 44	He 2-262
001.2 − 03.0	18 00.6−29 22	H 1-47
001.2 − 03.9	18 03.9−29 51	ShWi 2-5
001.3 − 01.2	17 53.8−28 27	Bl M
001.4 + 05.3	17 28.6−24 51	H 1-15
001.4 − 03.4	18 02.5−29 25	ShWi 2-1
001.5 − 06.7	18 16.2−30 52	SwSt 1
001.6 − 01.3	17 54.6−28 13	Bl Q
001.7 + 05.7	17 28.1−24 25	H 1-14
001.7 − 01.6	17 56.0−28 14	H 2-31
001.7 − 04.6	18 07.9−29 45	H 1-56
001.7 − 04.4	18 07.2−29 41	H 1-55
001.8 − 03.8	18 05.1−29 19	ShWi 2-7
002.0 − 02.0	17 58.4−28 15	H 1-45
002.0 − 06.2	18 15.1−30 16	M 2-33
002.0 − 13.4	18 45.9−33 21	IC 4776
002.1 + 03.3	17 37.9−25 21	PBOZ 24
002.1 − 02.2	17 59.3−28 14	M 3-20
002.1 − 04.2	18 07.1−29 13	H 1-54
002.2 + 00.5	17 48.8−26 44	Te 2337
002.2 − 02.7	18 01.7−28 26	M 2-23
002.2 − 02.5	18 01.0−28 16	KFL 2

PN G	α_{2000} δ_{2000}	Name
002.2 − 06.3	18 16.3−30 08	H 1-63
002.2 − 09.4	18 29.2−31 30	Cn 1-5
002.3 + 02.2	17 42.5−25 45	Te 5
002.3 − 03.4	18 04.5−28 38	H 2-37
002.3 − 07.8	18 22.6−30 43	M 2-41
002.4 + 05.8	17 29.3−23 46	NGC 6369
002.4 − 03.7	18 06.1−28 41	M 1-38
002.4 − 03.2	18 04.1−28 28	Wray 17-107
002.5 − 01.7	17 58.5−27 37	Pe 2-11
002.5 − 05.4	18 13.0−29 25	KFL 14
002.6 + 08.1	17 21.3−22 19	H 1-11
002.6 + 04.2	17 36.0−24 26	Th 3-27
002.6 + 02.1	17 43.7−25 37	Te 1580
002.6 − 03.4	18 05.4−28 22	M 1-37
002.7 − 04.8	18 11.1−28 59	M 1-42
002.7 − 52.4	21 59.5−39 23	IC 5148-50
002.8 + 01.7	17 45.7−25 38	H 2-20
002.8 + 01.8	17 45.5−25 38	Te 1567
002.8 − 02.2	18 01.2−27 38	Pe 2-12
002.9 + 06.5	17 27.9−22 57	PM 1-149
002.9 − 03.9	18 08.1−28 24	H 2-39
003.0 − 02.6	18 02.9−27 41	KFL 4
003.1 + 03.4	17 40.1−24 26	H 2-17
003.1 + 02.9	17 41.9−24 42	Hb 4
003.2 − 04.4	18 10.5−28 19	KFL 12
003.2 − 06.2	18 17.7−29 08	M 2-36
003.3 − 04.6	18 11.6−28 23	Ap 1-12
003.3 − 07.5	18 23.1−29 43	KFL 19
003.4 − 04.8	18 12.8−28 20	H 2-43
003.5 − 02.4	18 03.3−27 06	IC 4673
003.5 − 04.6	18 11.9−28 11	NGC 6565
003.6 + 03.1	17 42.0−24 11	M 2-14
003.6 − 02.3	18 03.2−26 59	M 2-26
003.7 + 07.9	17 24.8−21 34	H 2-8
003.7 − 04.6	18 12.6−27 58	M 2-30
003.8 + 05.3	17 34.4−22 53	H 2-15
003.8 − 04.5	18 12.4−27 52	H 2-41
003.8 − 04.3	18 11.5−27 46	H 1-59
003.8 − 17.1	19 05.6−33 12	Hb 8
003.9 + 01.6	17 48.5−24 41	Te 2111
003.9 − 02.3	18 03.7−26 43	M 1-35
003.9 − 03.1	18 06.8−27 06	KFL 7
003.9 − 14.9	18 55.6−32 16	Hb 7
004.0 − 03.0	18 06.7−26 55	M 2-29
004.0 − 05.8	18 17.7−28 17	Pe 1-12
004.0 − 11.1	18 39.4−30 41	M 3-29
004.1 − 03.8	18 10.2−27 17	KFL 11
004.2 − 03.2	18 08.0−26 54	KFL 10
004.2 − 04.3	18 12.4−27 29	H 1-60
004.2 − 05.9	18 18.6−28 08	M 2-37
004.3 + 01.8	17 48.6−24 17	H 2-24
004.3 − 02.6	18 06.0−26 30	H 1-53
004.5 + 06.8	17 30.6−21 29	H 2-12

PN G	α_{2000} δ_{2000}	Name
004.6 + 06.0	17 33.6−21 46	H 1-24
004.7 − 11.8	18 44.2−30 18	He 2-418
004.8 + 02.0	17 49.0−23 43	H 2-25
004.8 − 05.0	18 16.2−27 15	M 3-26
004.8 − 22.7	19 32.1−34 13	He 2-436
004.9 + 04.9	17 38.5−22 09	M 1-25
004.9 − 04.9	18 16.3−27 05	M 1-44
005.0 + 04.4	17 40.3−22 19	H 1-27
005.0 + 03.0	17 45.6−23 02	Pe 1-9
005.0 − 03.9	18 12.4−26 33	H 2-42
005.1 − 03.0	18 09.2−26 02	H 1-58
005.1 − 08.9	18 32.5−28 43	Hf 2-2
005.2 + 05.6	17 36.4−21 31	M 3-12
005.2 + 04.2	17 41.6−22 13	M 3-13
005.2 − 18.6	19 14.4−32 34	StWr 2-21
005.4 − 01.9	18 05.4−25 13	PBOZ 34
005.5 + 06.1	17 35.4−20 57	M 3-11
005.5 + 02.7	17 48.1−22 47	H 1-34
005.5 − 02.5	18 07.9−25 24	M 3-24
005.5 − 04.0	18 13.7−26 09	H 2-44
005.6 − 04.7	18 16.9−26 23	KFL 16
005.7 − 03.6	18 12.7−25 44	KFL 13
005.7 − 05.3	18 19.4−26 35	M 2-38
005.8 + 05.1	17 39.9−21 14	H 2-16
005.8 − 06.1	18 22.9−26 49	NGC 6620
005.9 − 02.6	18 09.2−25 05	MaC 1-10
006.0 + 03.1	17 47.6−22 06	M 1-28
006.0 + 02.8	17 48.6−22 17	Th 4-3
006.0 − 03.6	18 13.3−25 30	M 2-31
006.0 − 41.9	21 05.9−37 08	PRMG 1
006.1 + 08.3	17 29.0−19 16	M 1-20
006.2 + 01.0	17 55.9−22 59	HaTr 8
006.2 − 03.7	18 14.3−25 21	KFL 15
006.3 + 04.4	17 43.5−21 10	H 2-18
006.3 + 03.3	17 47.6−21 47	H 2-22
006.4 + 02.0	17 52.7−22 22	M 1-31
006.4 − 04.6	18 18.2−25 38	Pe 2-13
006.5 − 03.1	18 12.6−24 50	H 1-61
006.7 − 02.2	18 09.5−24 12	M 1-41
006.8 + 04.1	17 45.5−20 58	M 3-15
006.8 + 02.3	17 52.4−21 51	Th 4-7
006.8 + 02.0	17 53.6−21 59	Pe 2-10
006.8 − 03.4	18 14.5−24 44	H 2-45
006.8 − 08.6	18 34.9−27 06	Al 1
006.8 − 19.8	19 22.2−31 31	Wray 16-423
007.0 + 06.3	17 38.2−19 38	M 1-24
007.0 − 06.0	18 24.9−25 42	H 1-66
007.0 − 06.8	18 28.0−26 07	VY 2-1
007.2 + 01.8	17 55.1−21 45	Hb 6
007.5 + 07.4	17 35.2−18 34	M 1-22
007.5 + 04.3	17 46.3−20 14	Th 4-1
007.6 + 06.9	17 37.4−18 47	M 1-23
007.8 − 03.7	18 17.3−23 59	M 2-34

PN G	α_{2000} δ_{2000}	Name
007.8 − 04.4	18 20.1−24 15	H 1-65
007.9 + 10.1	17 26.6−16 48	MaC 1-4
008.0 + 03.9	17 49.3−20 01	NGC 6445
008.1 − 04.7	18 22.0−24 11	M 2-39
008.2 + 06.8	17 39.0−18 18	He 2-260
008.2 − 04.8	18 22.5−24 09	M 2-42
008.3 − 01.1	18 08.4−22 17	M 1-40
008.3 − 07.3	18 32.6−25 08	NGC 6644
008.4 − 03.6	18 18.4−23 25	H 1-64
008.6 − 02.6	18 14.8−22 44	MaC 1-11
008.6 − 07.0	18 31.9−24 46	He 2-406
008.8 + 05.2	17 46.2−18 40	Th 4-2
009.0 + 04.1	17 50.5−19 03	Th 4-5
009.3 + 04.1	17 51.0−18 47	Th 4-6
009.3 + 02.8	17 56.0−19 28	Th 4-9
009.4 − 05.0	18 25.7−23 12	NGC 6629
009.4 − 09.8	18 44.7−25 22	M 3-32
009.6 + 14.8	17 14.1−12 55	NGC 6309
009.6 + 10.5	17 29.1−15 13	A 41
009.6 − 10.6	18 48.2−25 29	M 3-33
009.8 − 04.6	18 25.1−22 35	H 1-67
009.8 − 07.5	18 36.4−23 55	GJJC 1
010.1 + 00.7	18 05.2−19 50	NGC 6537
010.4 + 04.5	17 52.1−17 36	M 2-17
010.6 + 03.2	17 57.1−18 07	Th 4-10
010.7 + 07.4	17 42.0−15 56	Sa 2-230
010.7 − 06.4	18 33.9−22 39	IC 4732
010.7 − 06.7	18 34.9−22 43	Pe 1-13
010.8 + 18.0	17 05.6−10 09	M 2-9
010.8 − 01.8	18 16.3−20 27	NGC 6578
011.0 + 06.2	17 46.9−16 17	M 2-15
011.0 + 05.8	17 48.3−16 29	NGC 6439
011.0 − 05.1	18 29.2−21 47	M 1-47
011.1 + 11.5	17 28.6−13 26	M 2-13
011.1 + 07.0	17 44.7−15 45	Sa 2-237
011.3 + 02.8	18 00.2−17 40	Th 4-11
011.3 − 09.4	18 46.6−23 27	H 2-48
011.7 − 00.0	18 11.8−18 46	M 1-43
011.7 − 00.6	18 13.8−19 04	NGC 6567
011.7 − 06.6	18 36.6−21 49	M 1-55
011.9 + 04.2	17 56.3−16 29	M 1-32
012.2 + 04.9	17 54.3−15 56	PM 1-188
012.5 − 09.8	18 50.4−22 34	M 1-62
012.6 − 02.7	18 23.1−19 17	M 1-45
013.0 − 04.3	18 30.0−19 41	Pe 2-14
013.1 + 04.1	17 59.0−15 32	M 1-33
013.3 + 32.7	16 21.1−00 16	Sn 1
013.4 − 03.9	18 29.5−19 06	M 1-48
013.7 − 10.6	18 55.5−21 50	Y-C 2-32
013.8 − 02.8	18 26.1−18 12	SaWe 3
013.8 − 07.9	18 45.6−20 35	PC 21
014.0 − 05.5	18 36.5−19 19	V-V 3-5
014.2 + 04.2	18 01.1−14 30	Sa 3-111

PN G	α_{2000} δ_{2000}	Name
014.2 − 07.3	18 44.0−19 55	M 3-31
014.3 − 05.5	18 37.2−19 02	V-V 3-6
014.6 − 04.3	18 33.3−18 17	M 1-50
014.7 − 11.8	19 02.3−21 27	SaWe 4
014.8 − 25.6	19 58.2−26 28	HDW 12
014.9 + 06.4	17 54.4−12 48	K 2-5
014.9 − 03.1	18 29.2−17 27	SaSt 3-166
015.4 − 04.5	18 35.8−17 36	M 1-53
015.6 − 03.0	18 30.2−16 45	A 44
015.9 + 03.3	18 07.5−13 29	M 1-39
016.0 + 13.5	17 31.5−08 19	A 42
016.0 − 04.3	18 36.1−17 00	M 1-54
016.1 − 04.7	18 37.8−17 06	M 1-56
016.4 − 01.9	18 27.9−15 33	M 1-46
016.9 − 02.0	18 29.3−15 08	Sa 3-134
017.3 − 21.9	19 46.6−23 08	A 65
017.6 − 10.2	19 01.0−18 12	A 51
017.7 − 02.9	18 34.0−14 52	M 1-52
017.9 − 04.8	18 41.3−15 34	M 3-30
018.0 + 20.1	17 12.9−03 16	Na 1
018.6 − 02.2	18 33.1−13 44	M 3-54
018.9 + 04.1	18 10.4−10 29	M 3-52
018.9 + 03.6	18 12.2−10 43	M 4-8
019.2 − 02.2	18 34.2−13 12	M 4-10
019.4 − 05.3	18 45.9−14 28	M 1-61
019.4 − 13.6	19 17.1−18 02	DeHt 3
019.4 − 19.6	19 40.5−20 27	K 2-7
019.7 + 03.2	18 15.3−10 10	M 3-25
019.7 − 04.5	18 43.6−13 45	M 1-60
019.8 + 05.6	18 07.0−08 56	CTS 1
019.8 − 23.7	19 57.5−21 37	A 66
019.9 + 00.9	18 24.1−11 07	M 3-53
020.2 − 00.6	18 30.3−11 37	A 45
020.7 − 05.9	18 50.7−13 31	Sa 1-8
020.9 − 01.1	18 33.5−11 07	M 1-51
021.1 − 05.9	18 51.5−13 11	M 1-63
021.2 − 03.9	18 44.1−12 13	We 1-7
021.7 − 00.6	18 33.2−10 15	M 3-55
021.8 − 00.4	18 32.7−10 06	M 3-28
022.0 − 03.1	18 43.0−11 07	M 1-58
022.1 − 02.4	18 40.3−10 40	M 1-57
022.5 + 04.8	18 15.2−06 57	MA 2
022.5 + 01.0	18 28.6−08 43	MaC 1-13
023.0 + 04.3	18 17.8−06 48	MA 3
023.3 − 07.6	19 01.4−11 58	MaC 1-16
023.8 − 01.7	18 41.1−08 56	K 3-11
023.9 + 01.2	18 30.5−07 28	MA 13
023.9 − 02.3	18 43.3−09 05	M 1-59
024.1 + 03.8	18 21.4−06 02	M 2-40
024.2 + 05.9	18 14.3−04 59	M 4-9
024.2 − 05.2	18 54.3−10 05	M 4-11
024.3 − 03.3	18 47.8−09 09	Pe 1-17
024.8 − 02.7	18 46.6−08 28	M 2-46

PN G	α_{2000} δ_{2000}	Name
025.0 − 11.6	19 19.3−12 15	A 60
025.3 + 40.8	16 11.7+12 04	IC 4593
025.3 − 04.6	18 54.3−08 54	K 4-8
025.4 − 04.7	18 54.6−08 50	IC 1295
025.8 − 17.9	19 44.0−14 09	NGC 6818
025.9 − 00.9	18 42.1−06 41	Pe 1-14
025.9 − 02.1	18 46.4−07 15	Pe 1-15
025.9 − 10.9	19 18.3−11 06	Na 2
026.0 − 01.8	18 45.5−06 57	Pe 2-15
026.3 − 02.2	18 47.5−06 54	Pe 1-16
026.5 − 03.0	18 50.7−07 02	Pe 1-19
026.6 − 01.5	18 45.6−06 18	K 4-5
027.3 − 02.1	18 48.8−05 56	Pe 1-18
027.3 − 03.4	18 53.5−06 29	A 49
027.4 − 03.5	18 54.0−06 26	Vy 1-4
027.6 + 16.9	17 41.7+03 07	DeHt 2
027.6 + 04.2	18 26.7−02 43	M 2-43
027.6 − 09.6	19 16.5−09 03	IC 4846
027.7 + 00.7	18 39.4−04 20	M 2-45
028.0 + 10.2	18 06.0+00 23	WeSb 3
028.2 − 04.0	18 57.3−06 00	Pe 1-20
028.5 + 05.1	18 25.0−01 31	K 3-2
028.5 + 01.6	18 37.6−03 06	M 2-44
028.7 + 02.7	18 34.2−02 28	K 3-7
028.7 − 03.9	18 57.8−05 28	Pe 1-21
029.0 + 00.4	18 42.8−03 13	A 48
029.2 − 00.0	18 44.9−03 21	TDC 1
029.2 − 05.9	19 05.9−05 59	NGC 6751
029.8 − 07.8	19 13.9−06 19	LSA 1
030.6 + 06.2	18 25.0+00 52	Sh 2-68
030.8 + 03.4	18 35.4−00 14	A 47
031.0 + 04.1	18 33.3+00 12	K 3-6
031.0 − 10.8	19 27.0−06 35	M 3-34
031.2 + 05.9	18 27.2+01 14	K 3-3
031.3 − 00.5	18 50.4−01 40	HaTr 10
031.7 + 01.7	18 43.1−00 17	PC 20
031.9 − 00.3	18 50.7−01 03	WeSb 4
032.0 − 03.0	19 00.6−02 12	K 3-18
032.1 + 07.0	18 24.7+02 29	PC 19
032.5 − 03.2	19 02.2−01 49	K 3-20
032.7 + 05.6	18 31.0+02 26	K 3-4
032.7 − 02.0	18 58.4−01 04	M 1-66
032.9 + 07.8	18 23.4+03 36	K 3-1
032.9 − 02.8	19 01.6−01 19	K 3-19
033.0 − 05.3	19 10.5−02 21	A 55
033.1 − 06.3	19 14.5−02 42	NGC 6772
033.2 − 01.9	18 58.9−00 33	Sa 3-151
033.8 − 02.6	19 02.6−00 27	NGC 6741
034.0 + 02.2	18 45.4+02 01	K 3-13
034.1 − 10.5	19 31.1−03 42	HDW 11
034.3 + 06.2	18 31.8+04 05	K 3-5
034.5 − 06.7	19 18.4−01 36	NGC 6778
034.6 + 11.8	18 12.1+06 51	NGC 6572

PN G	α_{2000} δ_{2000}	Name
035.1 − 00.7	18 58.1+01 37	Ap 2-1
035.7 − 05.0	19 14.7+00 14	K 3-26
035.9 − 01.1	19 01.0+02 09	Sh 2-71
036.0 + 17.6	17 53.5+10 37	A 43
036.1 − 57.1	22 29.6−20 50	NGC 7293
036.9 − 01.1	19 03.0+03 02	HaTr 11
036.9 − 02.6	19 08.0+02 21	HaTr 13
037.5 − 05.1	19 18.3+01 47	A 58
037.7 − 34.5	21 04.2−11 22	NGC 7009
037.8 − 06.3	19 22.9+01 31	NGC 6790
037.9 − 03.4	19 13.1+02 53	A 56
038.1 − 25.4	20 31.6−07 05	A 70
038.2 + 12.0	18 17.5+10 09	Cn 3-1
038.4 − 03.3	19 13.4+03 25	K 4-19
038.7 + 01.9	18 54.9+06 03	YM 16
038.7 − 03.3	19 13.9+03 38	M 1-69
039.5 − 02.7	19 13.6+04 38	M 2-47
039.8 + 02.1	18 56.3+07 07	K 3-17
040.3 − 00.4	19 06.8+06 24	A 53
040.4 − 03.1	19 16.5+05 13	K 3-30
041.2 − 00.6	19 09.2+07 06	HaTr 14
041.8 + 04.4	18 51.7+09 55	K 3-15
041.8 − 02.9	19 18.5+06 32	NGC 6781
042.0 + 05.4	18 48.5+10 36	K 3-14
042.5 − 14.5	20 00.7+01 44	NGC 6852
042.9 − 06.9	19 34.6+05 41	NGC 6807
043.0 − 03.0	19 21.0+07 37	M 4-14
043.1 + 37.7	16 44.5+23 48	NGC 6210
043.1 + 03.8	18 56.6+10 52	M 1-65
043.3 + 11.6	18 27.8+14 29	M 3-27
043.3 + 02.2	19 02.3+10 17	PM 1-276
043.5 − 13.4	19 58.5+03 02	A 67
044.0 + 05.2	18 53.0+12 16	K 3-16
044.1 + 05.8	18 50.7+12 37	CTSS 2
044.3 + 10.4	18 34.0+14 49	We 3-1
044.3 − 05.6	19 32.6+07 28	K 3-36
045.4 − 02.7	19 24.4+09 54	Vy 2-2
045.6 + 24.3	17 42.6+21 27	K 1-14
045.6 + 01.5	19 09.4+12 01	K 3-22
045.7 − 04.5	19 31.6+09 14	NGC 6804
045.9 − 01.9	19 22.4+10 41	K 3-33
046.3 − 03.1	19 27.7+10 24	PB 9
046.4 − 04.1	19 31.3+10 03	NGC 6803
046.8 + 03.8	19 03.1+14 07	CTSS 3
046.8 + 02.9	19 06.4+13 45	CTSS 4
047.0 + 42.4	16 27.6+27 55	A 39
047.1 + 04.1	19 02.7+14 29	K 3-21
047.1 − 04.2	19 33.3+10 37	A 62
048.0 − 02.3	19 28.2+12 20	PB 10
048.1 + 01.1	19 15.5+14 04	K 3-29
048.5 + 04.2	19 04.9+15 48	K 4-16
048.7 + 02.3	19 12.1+15 09	K 3-24
048.7 + 01.9	19 13.6+14 59	He 2-429

PN G	α_{2000} δ_{2000}	Name
048.7 − 01.5	19 26.4+13 20	DeHt 4
049.3 + 88.1	12 59.5+27 38	H 4-1
049.4 + 02.4	19 13.1+15 47	He 2-428
050.1 + 03.3	19 11.5+16 52	M 1-67
050.4 + 05.2	19 04.5+17 57	A 52
050.4 − 01.6	19 30.3+14 47	K 4-28
051.0 + 03.0	19 14.1+17 32	He 2-430
051.0 + 02.8	19 15.0+17 23	WhMe 1
051.0 − 04.5	19 42.1+13 51	PC 22
051.3 + 01.8	19 19.3+17 12	PM 1-295
051.4 + 09.6	18 49.8+20 51	Hu 2-1
051.5 + 06.1	19 03.6+19 21	K 1-17
051.9 + 25.8	17 45.0+27 20	K 1-15
051.9 − 03.8	19 41.2+14 57	M 1-73
052.2 + 07.6	18 59.1+20 37	K 4-10
052.2 − 04.0	19 42.3+15 09	M 1-74
052.5 − 02.9	19 39.2+15 57	Me 1-1
052.9 + 02.7	19 19.0+19 02	K 3-31
052.9 − 02.7	19 39.3+16 21	K 3-41
053.2 − 01.5	19 35.3+17 13	K 3-38
053.3 + 24.0	17 54.4+28 00	Vy 1-2
053.3 + 03.0	19 18.7+19 34	A 59
053.8 − 03.0	19 42.2+17 05	A 63
054.1 − 12.1	20 15.2+12 42	NGC 6891
054.4 − 02.5	19 41.6+17 45	M 1-72
055.1 − 01.8	19 40.4+18 49	K 3-43
055.2 + 02.8	19 23.4+21 08	He 2-432
055.3 + 06.6	19 08.7+22 59	A 54
055.3 + 02.7	19 23.8+21 07	He 1-1
055.4 + 16.0	18 31.3+26 56	A 46
055.5 − 00.5	19 36.4+19 42	M 1-71
055.6 + 02.1	19 26.6+21 10	He 1-2
056.0 + 02.0	19 27.7+21 30	K 3-35
056.4 − 00.9	19 39.6+20 19	K 3-42
056.8 − 06.9	20 02.6+17 37	K 3-51
057.2 − 08.9	20 10.4+16 55	NGC 6879
057.9 − 01.5	19 45.4+21 20	He 2-447
058.3 − 10.9	20 20.1+16 44	IC 4997
058.6 + 06.1	19 17.1+25 37	A 57
058.6 − 05.5	20 01.7+19 55	WeSb 5
058.9 + 01.3	19 36.4+23 40	K 3-40
059.0 + 04.6	19 24.0+25 19	K 3-34
059.0 − 01.7	19 48.4+22 10	He 1-3
059.4 + 02.3	19 33.8+24 32	K 3-37
059.7 − 18.7	20 50.0+13 33	A 72
059.9 + 02.0	19 35.9+24 55	K 3-39
060.0 − 04.3	20 00.2+21 43	A 68
060.1 − 07.7	20 12.7+19 59	NGC 6886
060.3 − 07.3	20 11.9+20 20	He 1-5
060.4 + 01.5	19 38.9+25 06	PM 1-310
060.5 + 01.8	19 38.1+25 16	He 2-440
060.5 − 00.3	19 46.3+24 11	K 3-45
060.8 − 03.6	19 59.6+22 43	NGC 6853

PN G	α_{2000} δ_{2000}	Name
061.0 + 08.0	19 14.5+28 41	K 3-27
061.3 + 03.6	19 33.0+26 53	He 2-437
061.4 − 09.5	20 22.4+20 06	NGC 6905
061.8 + 02.1	19 39.7+26 31	He 2-442
061.9 + 41.3	16 40.3+38 42	DdDm 1
062.4 + 09.5	19 11.1+30 33	NGC 6765
062.4 − 00.2	19 50.5+25 54	M 2-48
063.1 + 13.9	18 53.6+33 02	NGC 6720
063.8 − 03.3	20 05.0+25 27	K 3-54
064.6 + 48.2	16 04.4+40 41	NGC 6058
064.7 + 05.0	19 34.8+30 31	BD+30 3639
064.9 + 15.5	18 50.0+35 15	M 1-64
064.9 − 02.1	20 03.4+27 01	K 3-53
065.0 − 27.3	21 30.0+12 10	Ps 1
065.1 − 03.5	20 09.1+26 27	We 1-9
065.2 − 05.6	20 17.4+25 22	He 1-6
065.9 + 00.5	19 55.0+29 17	NGC 6842
066.7 − 28.2	21 36.9+12 47	NGC 7094
066.9 + 02.2	19 51.0+31 03	K 4-37
066.9 − 05.2	20 19.6+27 00	PC 24
067.9 − 00.2	20 03.2+30 33	K 3-52
068.3 − 02.7	20 14.0+29 34	He 2-459
068.6 + 01.1	19 59.3+31 55	He 1-4
068.7 + 14.8	19 00.5+38 21	Sp 4-1
068.7 + 03.0	19 51.9+32 59	PC 23
068.7 + 01.9	19 56.6+32 22	K 4-41
068.8 − 00.0	20 04.7+31 27	M 1-75
069.2 + 03.8	19 50.0+33 46	K 3-46
069.2 + 02.8	19 54.0+33 22	K 3-49
069.4 − 02.6	20 16.4+30 34	NGC 6894
069.6 − 03.9	20 22.0+29 59	K 3-58
069.7 − 00.0	20 06.9+32 17	K 3-55
071.6 − 02.3	20 21.1+32 29	M 3-35
072.1 + 00.1	20 12.8+34 21	K 3-57
072.7 − 17.1	21 16.9+24 09	A 74
073.0 − 02.4	20 25.1+33 34	K 3-76
074.5 + 02.1	20 10.9+37 25	NGC 6881
075.6 + 04.3	20 04.4+39 35	Anon. 20h02m
075.7 + 35.8	17 13.8+49 16	Sa 4-1
076.3 + 01.1	20 19.9+38 25	A 69
076.4 + 01.8	20 17.3+38 50	KjPn 3
077.5 + 03.7	20 12.2+40 50	KjPn 1
077.6 + 14.7	19 19.2+46 15	A 61
077.7 + 03.1	20 15.3+40 40	KjPn 2
078.3 − 02.7	20 42.3+37 41	K 4-53
078.5 + 18.7	18 59.3+48 28	A 50
078.6 + 05.2	20 08.7+42 30	Dd 1
078.9 + 00.7	20 29.3+40 15	Sd 1
079.6 + 05.8	20 09.0+43 44	M 4-17
079.9 + 06.4	20 06.9+44 14	K 3-56
081.2 − 14.9	21 35.5+31 42	A 78
082.1 + 07.0	20 10.4+46 28	NGC 6884
082.5 + 11.3	19 49.8+48 58	NGC 6833
083.5 + 12.7	19 44.8+50 31	NGC 6826
083.9 − 08.4	21 22.3+38 07	K 3-81
084.0 + 09.5	20 04.0+49 19	K 3-73
084.2 + 01.0	20 45.2+44 39	K 4-55
084.2 − 04.2	21 07.7+41 11	K 3-80
084.9 + 04.4	20 32.4+47 21	A 71
084.9 − 03.4	21 07.0+42 14	NGC 7027
086.1 + 05.4	20 31.9+48 53	We 1-10
086.5 − 08.8	21 33.1+39 38	Hu 1-2
087.4 − 03.8	21 18.1+43 49	We 2-245
088.7 + 04.6	20 45.4+50 23	K 3-78
088.7 − 01.6	21 14.3+46 17	NGC 7048
089.0 + 00.3	21 06.3+47 51	NGC 7026
089.3 − 02.2	21 19.1+46 19	M 1-77
089.8 − 00.6	21 14.1+47 44	Sh 1-89
089.8 − 05.1	21 32.5+44 36	IC 5117
091.6 + 01.8	21 10.9+50 47	We 1-11
091.6 − 04.8	21 38.8+46 00	K 3-84
092.1 + 05.8	20 53.2+53 46	K 3-79
093.3 − 00.9	21 30.9+50 00	K 3-82
093.3 − 02.4	21 37.0+48 56	M 1-79
093.4 + 05.4	21 00.5+54 32	NGC 7008
093.5 + 01.4	21 20.7+51 53	M 1-78
094.0 + 27.4	18 21.8+64 22	K 1-16
094.5 − 00.8	21 35.7+50 54	K 3-83
095.1 − 02.0	21 43.3+50 25	M 2-49
095.2 + 07.8	20 56.4+57 26	A 73
095.2 + 00.7	21 31.8+52 34	K 3-62
096.3 + 02.3	21 30.0+54 27	K 3-61
096.4 + 29.9	17 58.6+66 38	NGC 6543
097.5 + 03.1	21 32.2+55 53	A 77
097.6 − 02.4	21 57.7+51 42	M 2-50
098.1 + 02.4	21 39.2+55 46	K 3-63
098.2 + 04.9	21 27.4+57 39	K 3-60
100.0 − 08.7	22 31.7+47 48	Me 2-2
100.6 − 05.4	22 23.9+50 58	IC 5217
101.8 + 08.7	21 26.4+62 53	A 75
102.8 − 05.0	22 34.8+52 26	A 80
102.9 − 02.3	22 26.3+54 50	A 79
103.2 + 00.6	22 16.1+57 29	M 2-51
103.7 + 00.4	22 20.5+57 36	M 2-52
104.1 + 07.9	21 46.2+63 47	NGC 7139
104.1 + 01.0	22 20.3+58 14	Bl 2-1
104.2 − 29.6	23 35.9+30 28	Jn 1
104.4 − 01.6	22 32.3+56 10	M 2-53
104.8 − 06.7	22 51.6+51 51	M 2-54
106.5 − 17.6	23 25.9+42 32	NGC 7662
107.4 − 00.6	22 48.6+58 29	K 4-57
107.4 − 02.6	22 55.1+56 43	K 3-87
107.6 − 13.3	23 23.0+46 54	Vy 2-3
107.7 + 07.8	22 13.4+65 54	IsWe 2
107.7 − 02.2	22 56.3+57 09	M 1-80
107.8 + 02.3	22 40.3+61 17	NGC 7354

PN G	α_{2000} δ_{2000}	Name
108.4 − 76.1	00 37.3−13 42	BoBn 1
110.1 + 01.9	22 58.9+61 58	PM 1-339
110.6 − 12.9	23 39.1+48 13	K 1-20
111.0 + 11.6	22 19.6+70 56	DeHt 5
111.2 + 07.0	22 47.9+67 03	KjPn 6
111.8 − 02.8	23 26.2+58 11	Hb 12
112.5 + 03.7	23 12.3+64 39	K 3-88
112.5 − 00.1	23 24.3+60 56	KjPn 8
112.9 − 10.2	23 47.7+51 24	A 84
113.6 − 06.9	23 46.8+54 45	A 83
114.0 − 04.6	23 45.8+57 04	A 82
116.2 + 08.5	23 31.9+70 22	M 2-55
117.5 + 18.9	22 42.6+80 27	IC 1454
118.0 − 08.6	00 18.7+53 53	Vy 1-1
118.7 + 08.2	00 01.6+70 43	A 86
118.8 − 74.7	00 47.1−11 52	NGC 246
119.3 + 00.3	00 20.0+62 59	BV 5-1
119.4 + 06.5	00 12.6+69 11	A 1
119.6 − 06.7	00 28.3+55 58	Hu 1-1
120.0 + 09.8	00 13.0+72 31	NGC 40
120.2 − 05.3	00 31.9+57 23	Sh 2-176
121.6 + 03.5	00 38.9+66 24	We 1-1
121.6 − 00.0	00 40.4+62 51	BV 5-2
122.1 − 04.9	00 45.6+57 57	A 2
123.6 + 34.5	12 33.1+82 34	IC 3568
124.0 + 10.7	01 07.1+73 33	EGB 1
124.3 − 07.7	01 00.9+55 04	WeSb 1
125.9 − 47.0	00 59.9+15 44	PHL 932
126.3 + 02.9	01 25.0+65 39	K 3-90
128.0 − 04.1	01 30.7+58 22	Simeiz 22
129.2 − 02.0	01 42.6+60 10	We 2-5
129.5 + 04.5	01 58.6+66 34	K 3-91
130.2 + 01.3	01 57.6+63 19	IC 1747
130.3 − 11.7	01 37.3+50 28	M 1-1
130.4 + 03.1	02 03.7+64 58	K 3-92
130.9 − 10.5	01 42.4+51 34	NGC 650-51
131.4 − 05.4	01 53.0+56 24	BV 5-3
131.5 + 02.6	02 12.2+64 09	A 3
132.4 + 04.7	02 26.5+65 48	K 3-93
133.1 − 08.6	01 58.8+52 54	M 1-2
136.1 + 04.9	02 58.9+64 30	A 6
136.3 + 05.5	03 03.8+64 54	HFG 1
138.1 + 04.1	03 11.0+62 48	HDW 2
138.8 + 02.8	03 10.3+61 19	IC 289
141.7 − 07.8	02 52.2+50 36	A 5
142.1 + 03.4	03 36.1+60 04	K 3-94
143.6 + 23.8	06 29.6+71 04	EGB 4
144.3 − 15.5	02 45.4+42 33	A 4
144.5 + 06.5	04 07.0+60 55	NGC 1501
146.7 + 07.6	04 25.8+60 07	M 4-18
147.4 − 02.3	03 41.7+52 17	M 1-4
147.8 + 04.1	04 13.3+56 57	M 2-2
148.4 + 57.0	11 14.8+55 01	NGC 3587

PN G	α_{2000} δ_{2000}	Name
149.0 + 04.4	04 20.8+56 18	K 4-47
149.4 − 09.2	03 27.3+45 24	HDW 3
149.7 − 03.3	03 49.1+50 00	IsWe 1
151.4 + 00.5	04 13.5+51 51	K 3-64
153.7 + 22.8	06 43.9+61 47	A 16
153.7 − 01.4	04 15.9+48 50	K 3-65
156.9 − 13.3	03 45.4+37 49	HaWe 5
158.8 + 37.1	08 41.6+58 14	A 28
158.9 + 17.8	06 19.6+55 37	PuWe 1
159.0 − 15.1	03 47.5+35 03	IC 351
160.5 − 00.5	04 46.7+44 28	We 1-2
161.2 − 14.8	03 56.4+33 53	IC 2003
163.1 − 00.8	04 54.5+42 17	We 1-3
164.8 + 31.1	07 57.9+53 25	JnEr 1
165.5 − 06.5	04 39.8+36 46	K 3-67
165.5 − 15.2	04 09.3+30 47	NGC 1514
166.1 + 10.4	05 56.4+46 06	IC 2149
166.4 − 06.5	04 42.9+36 07	CRL 618
167.0 − 00.9	05 06.6+39 08	A 8
167.4 − 09.1	04 36.6+33 40	K 3-66
170.3 + 15.8	06 34.1+44 47	NGC 2242
170.7 + 04.6	05 41.4+39 15	K 3-69
171.3 − 25.8	03 53.5+19 28	Ba 1
173.5 + 03.2	05 42.6+36 09	Pu 2
173.7 + 02.7	05 40.9+35 43	PP 40
173.7 − 05.8	05 07.1+30 50	K 2-1
174.2 − 14.6	04 37.3+25 03	H 3-29
178.3 − 02.5	05 31.6+28 59	K 3-68
181.5 + 00.9	05 52.8+28 06	Pu 1
183.8 + 05.5	06 16.2+28 22	WeSb 2
184.0 − 02.1	05 46.8+24 22	M 1-5
184.6 + 00.6	05 58.8+25 19	K 3-70
184.8 + 04.4	06 13.9+26 53	K 3-71
189.1 + 19.8	07 25.6+29 30	NGC 2371-72
189.8 + 07.7	06 37.3+24 01	M 1-7
190.3 − 17.7	05 05.6+10 42	J 320
192.5 + 07.2	06 40.2+21 25	HDW 6
193.6 − 09.5	05 40.7+12 21	H 3-75
194.2 + 02.5	06 26.0+17 47	J 900
196.6 − 10.9	05 42.1+09 05	NGC 2022
197.2 − 14.2	05 31.8+06 56	K 1-7
197.4 − 06.4	05 59.4+10 42	WeDe 1
197.8 + 17.3	07 29.2+20 55	NGC 2392
197.8 − 03.3	06 11.1+11 47	A 14
198.6 − 06.3	06 02.4+09 39	A 12
200.7 + 08.4	06 59.9+14 37	A 19
201.7 + 02.5	06 39.9+11 07	K 4-48
201.9 − 04.6	06 14.6+07 35	We 1-4
204.0 − 08.5	06 04.8+03 56	A 13
204.1 + 04.7	06 52.5+09 58	K 2-2
204.8 − 03.5	06 23.9+05 30	K 3-72
205.1 + 14.2	07 29.0+13 15	A 21
205.8 − 26.7	05 03.7−06 10	MaC 2-1

PN G	α_{2000} δ_{2000}	Name
206.4 − 40.5	04 14.3−12 44	NGC 1535
208.5 + 33.2	08 46.9+17 53	A 30
210.0 + 03.9	07 00.4+04 21	We 2-34
210.3 + 01.9	06 53.6+03 08	M 1-8
211.2 − 03.5	06 35.7−00 06	M 1-6
211.4 + 18.4	07 55.2+09 33	HDW 7
211.9 + 22.6	08 11.2+10 57	EGB 5
212.0 + 04.3	07 05.3+02 47	M 1-9
214.9 + 07.8	07 23.0+01 46	A 20
215.2 − 24.2	05 27.5−12 42	IC 418
215.5 − 30.8	05 03.1−15 36	A 7
215.6 + 11.1	07 36.1+02 42	K 1-11
215.6 + 03.6	07 09.4−00 48	NGC 2346
216.0 − 00.2	06 56.2−02 53	A 18
216.3 − 04.4	06 41.6−05 03	We 1-5
217.1 + 14.7	07 51.6+03 00	A 24
217.4 + 02.0	07 06.8−03 05	St 3-1
218.9 − 10.7	06 23.6−10 13	HDW 5
219.1 + 31.2	08 54.2+08 54	A 31
220.3 − 53.9	03 33.3−25 52	NGC 1360
221.3 − 12.3	06 21.7−12 59	IC 2165
221.5 + 46.3	09 53.0+13 45	EGB 6
221.7 + 05.3	07 26.6−05 22	M 3-3
224.3 + 15.3	08 06.8−02 53	K 1-13
224.9 + 01.0	07 17.4−10 11	We 1-6
226.4 − 03.7	07 02.8−13 43	PB 1
226.7 + 05.6	07 37.3−09 39	M 1-16
228.2 − 22.1	05 55.1−22 54	DeHt 1
228.8 + 05.3	07 40.4−11 32	M 1-17
229.6 − 02.7	07 12.6−16 06	K 1-10
231.4 + 04.3	07 42.1−14 21	M 1-18
231.8 + 04.1	07 41.8−14 44	NGC 2438
232.0 + 05.7	07 48.1−14 08	SaSt 2-3
232.4 − 01.8	07 21.2−18 09	M 1-13
232.8 − 04.7	07 11.3−19 51	M 1-11
233.0 − 10.1	06 50.7−22 26	SaWe 1
233.5 − 16.3	06 27.0−25 23	A 15
234.3 − 06.6	07 07.0−22 02	K 2-3
234.8 + 02.4	07 41.9−18 13	NGC 2440
234.9 − 01.4	07 27.9−20 13	M 1-14
235.3 − 03.9	07 19.4−21 44	M 1-12
236.0 − 10.6	06 54.5−25 21	HaWe 9
236.7 + 03.5	07 50.2−19 18	K 1-12
238.0 + 34.8	09 39.2−02 49	A 33
238.9 + 07.3	08 08.7−19 14	Sa 2-21
239.6 + 13.9	08 33.4−16 09	NGC 2610
239.6 − 12.0	06 55.2−29 07	ESO 427-19
240.3 + 07.0	08 10.7−20 32	Y-C 2-5
240.3 − 07.6	07 14.8−27 50	M 3-2
241.0 + 02.3	07 55.2−23 38	M 3-4
242.6 − 11.6	07 02.8−31 36	M 3-1
243.3 − 01.0	07 47.4−27 20	NGC 2452
243.8 − 37.1	05 03.0−39 46	PRTM 1

PN G	α_{2000} δ_{2000}	Name
244.5 + 12.5	08 40.2−20 54	A 29
245.4 + 01.6	08 02.5−27 42	M 3-5
248.7 + 29.5	09 45.6−13 10	A 34
248.8 − 08.5	07 28.9−35 45	M 4-2
249.0 + 06.9	08 31.7−27 46	SaSt 1-1
249.3 − 05.4	07 43.3−34 45	A 23
250.3 + 00.1	08 09.0−32 40	A 26
251.1 − 01.5	08 04.2−34 16	K 1-21
252.6 + 04.4	08 31.9−32 06	K 1-1
253.5 + 10.7	08 57.8−28 57	K 1-2
253.9 + 05.7	08 40.7−32 22	M 3-6
254.6 + 00.2	08 20.9−36 14	Ns 238
255.3 − 59.6	02 57.0−44 10	Lo 1
255.7 + 03.3	08 36.3−35 16	Wray 16-22
257.1 − 02.6	08 16.2−39 52	Vo 2
257.5 + 00.6	08 31.0−38 20	VBRC 1
258.0 − 15.7	07 14.8−46 57	Wray 17-1
258.1 − 00.3	08 28.5−39 24	He 2-9
259.1 + 00.9	08 37.1−39 26	He 2-11
260.7 + 00.9	08 42.3−40 44	Vo 3
260.7 − 03.3	08 23.7−43 13	Wray 16-20
261.0 + 32.0	10 24.8−18 39	NGC 3242
261.6 + 03.0	08 53.5−40 04	He 2-15
261.9 + 08.5	09 16.0−36 38	NGC 2818
262.6 − 04.6	08 23.9−45 31	Wray 17-18
263.0 − 05.5	08 20.7−46 20	PB 2
263.2 + 00.4	08 48.6−42 54	K 2-15
263.3 − 08.8	08 05.2−48 23	ESO 209-15
264.1 − 08.1	08 11.5−48 43	He 2-7
264.4 − 03.6	08 34.5−46 26	Wray 17-20
264.4 − 12.7	07 47.3−51 15	He 2-5
265.1 − 02.2	08 43.4−46 08	Ve 26
265.1 − 04.2	08 34.1−47 17	ESO 259-10
265.7 + 04.1	09 12.4−42 26	NGC 2792
268.4 + 02.4	09 16.2−45 29	PB 5
269.7 − 03.6	08 54.3−50 32	PB 3
270.1 + 24.8	10 34.5−29 11	K 1-28
272.1 + 12.3	10 07.0−40 26	NGC 3132
272.4 − 05.9	08 53.6−54 05	MeWe 1-1
273.2 − 03.7	09 08.7−53 19	He 2-18
273.6 + 06.1	09 52.7−46 17	HBDS 1
274.1 + 02.5	09 41.2−49 23	He 2-34
274.3 + 09.1	10 05.8−44 22	Lo 4
274.6 + 03.5	09 47.4−48 58	He 2-37
274.6 + 02.1	09 41.6−49 58	He 2-35
275.0 − 04.1	09 15.1−54 53	PB 4
275.2 − 02.9	09 22.1−54 10	He 2-28
275.2 − 03.7	09 18.0−54 39	He 2-25
275.3 − 04.7	09 13.9−55 28	He 2-21
275.5 − 01.3	09 30.8−53 10	Pe 2-4
275.8 − 02.9	09 24.7−54 36	He 2-29
277.1 − 03.8	09 27.1−56 06	NGC 2899
277.7 − 03.5	09 31.5−56 18	Wray 17-31

PN G	α_{2000} δ_{2000}	Name
278.1 − 05.9	09 21.4−58 19	NGC 2867
278.5 − 04.5	09 30.9−57 37	He 2-32
278.6 − 06.7	09 19.5−59 12	He 2-26
278.8 + 04.9	10 13.3−50 20	PB 6
279.6 − 03.1	09 43.4−57 17	He 2-36
280.0 + 02.9	10 12.0−52 38	Ste 2-1
281.0 − 05.6	09 38.8−60 05	IC 2501
282.9 + 03.8	10 31.5−53 33	He 2-48
283.3 + 03.9	10 34.3−53 41	He 2-50
283.6 + 25.3	11 26.7−34 22	K 1-22
283.8 + 02.2	10 31.6−55 21	My 60
283.8 − 04.2	10 03.8−60 44	He 2-39
283.9 + 09.7	10 54.7−48 47	ESO 215-04
283.9 − 01.8	10 15.6−58 51	Hf 4
285.4 + 02.2	10 41.3−56 09	Pe 2-7
285.4 + 01.5	10 38.5−56 47	Pe 1-1
285.4 − 01.1	10 28.7−59 04	Pe 2-5
285.4 − 05.3	10 09.4−62 37	IC 2553
285.6 − 02.7	10 23.2−60 33	He 2-47
285.7 + 01.2	10 39.5−57 06	Pe 1-2
285.7 − 14.9	09 07.1−69 56	IC 2448
286.0 − 06.5	10 07.4−63 55	He 2-41
286.2 − 06.9	10 06.9−64 22	Wray 17-40
286.3 + 02.8	10 48.7−56 03	He 2-55
286.3 − 04.8	10 17.8−62 40	NGC 3211
286.5 + 11.6	11 13.8−48 06	Lo 5
286.8 − 29.5	05 57.0−75 40	K 1-27
288.4 + 00.3	10 54.6−59 10	Hf 38
288.4 − 02.4	10 44.5−61 40	Pe 1-3
288.7 + 08.1	11 18.2−52 10	ESO 216-02
288.8 − 05.2	10 35.8−64 19	He 2-51
288.9 − 00.8	10 54.0−60 27	Hf 39
289.6 − 01.6	10 56.0−61 28	He 2-57
289.8 + 07.7	11 24.0−52 51	He 2-63
290.1 − 00.4	11 03.9−60 36	Hf 48
290.5 + 07.9	11 28.6−52 56	Fg 1
291.3 − 26.2	06 59.5−79 39	Vo 1
291.4 + 19.2	11 52.5−42 18	ESO 320-28
291.6 − 04.8	11 00.3−65 15	IC 2621
291.7 + 03.7	11 27.4−57 18	He 2-64
292.4 + 04.1	11 33.3−57 06	PB 8
292.6 + 01.2	11 28.0−59 58	NGC 3699
292.7 + 01.9	11 30.8−59 17	Wray 16-93
292.8 + 01.1	11 28.8−60 07	He 2-67
293.6 + 10.9	11 53.1−50 51	BlDz 1
293.6 + 01.2	11 35.2−60 17	He 2-70
294.1 + 43.6	12 24.5−18 47	NGC 4361
294.1 + 14.4	12 00.7−47 33	Lo 6
294.6 + 04.7	11 50.3−57 11	NGC 3918
294.9 − 00.6	11 41.6−62 29	He 2-72
294.9 − 04.3	11 31.8−65 58	He 2-68
295.3 − 09.3	11 17.7−70 50	He 2-62
296.3 − 03.0	11 48.6−65 09	He 2-73
296.4 − 06.9	11 39.2−68 52	He 2-71
296.6 − 20.0	10 09.4−80 52	NGC 3195
297.4 + 03.7	12 09.2−58 43	He 2-78
298.0 + 34.8	12 33.2−27 49	CTIO 1230-275
298.1 − 00.7	12 09.0−63 07	He 2-77
298.2 − 01.7	12 08.4−64 12	He 2-76
298.3 − 04.8	12 04.3−67 19	NGC 4071
299.0 + 18.4	12 30.9−44 14	K 1-23
299.4 − 04.1	12 16.6−66 46	HaTr 1
299.5 + 02.4	12 23.9−60 13	He 2-82
299.8 − 01.3	12 23.0−64 02	He 2-81
300.2 + 00.6	12 28.8−62 06	He 2-83
300.4 − 00.9	12 28.8−63 45	He 2-84
300.5 − 01.1	12 30.1−63 53	He 2-85
300.7 − 02.0	12 30.5−64 51	He 2-86
300.8 − 03.4	12 30.4−66 14	ESO 095-12
302.2 + 02.5	12 45.9−60 20	Wray 16-120
302.3 − 01.3	12 45.9−64 10	DuRe 1
302.6 − 00.9	12 48.5−63 50	Wray 16-121
303.6 + 40.0	12 53.7−22 52	A 35
304.2 + 05.9	13 00.7−56 53	Wray 16-122
304.5 − 04.8	13 08.8−67 39	IC 4191
304.8 + 05.1	13 05.8−57 39	He 2-88
305.1 + 01.4	13 09.6−61 20	He 2-90
305.6 − 13.1	13 34.2−75 46	ESO 040-11
305.7 − 03.4	13 19.5−66 09	Wray 17-59
306.4 − 00.6	13 22.6−63 21	Th 2-A
307.2 − 03.4	13 33.7−65 58	NGC 5189
307.2 − 09.0	13 45.4−71 29	He 2-97
307.3 + 05.0	13 24.4−57 31	Wray 16-128
307.5 − 04.9	13 39.6−67 23	MyCn 18
308.2 + 07.7	13 28.1−54 42	MeWe 1-3
308.6 − 12.2	14 15.4−74 13	He 2-105
309.0 + 00.8	13 42.6−61 23	He 2-96
309.0 − 04.2	13 52.5−66 23	He 2-99
309.1 − 04.3	13 54.0−66 31	NGC 5315
309.2 + 01.3	13 44.0−60 50	VBRC 5
309.5 − 02.9	13 54.5−64 59	MaC 1-2
310.3 + 24.7	13 25.6−37 36	Lo 8
310.4 + 01.3	13 53.4−60 34	Vo 4
310.7 − 02.9	14 05.6−64 41	He 2-103
310.8 − 05.9	14 15.4−67 32	LoTr 7
311.0 + 02.4	13 55.8−59 23	SuWt 2
311.1 + 03.4	13 54.9−58 27	He 2-101
311.4 + 02.8	13 58.2−58 54	He 2-102
312.3 + 10.5	13 51.1−51 12	NGC 5307
312.6 − 01.8	14 18.7−63 07	He 2-107
313.8 − 12.6	15 21.2−72 14	LoTr 11
315.0 − 00.3	14 33.3−60 50	He 2-111
315.1 − 13.0	15 37.2−71 55	He 2-131
315.4 + 09.4	14 11.9−51 26	He 2-104
315.4 + 05.2	14 20.8−55 28	He 2-109
315.7 + 05.5	14 22.0−55 02	LoTr 8

PN G	α_{2000} δ_{2000}	Name
315.7 − 01.2	14 41.3−61 20	LoTr 9
316.1 + 08.4	14 18.2−52 11	He 2-108
316.3 − 01.3	14 46.4−61 14	LoTr 10
317.1 − 05.7	15 10.7−64 40	He 2-119
317.8 + 03.3	14 41.6−56 15	VBRC 6
318.3 − 02.0	15 04.1−60 53	He 2-114
318.3 − 02.5	15 06.0−61 21	He 2-116
318.4 + 41.4	13 40.7−19 53	A 36
318.4 − 03.0	15 08.7−61 44	ESO 135-04
319.2 + 06.8	14 40.5−52 35	He 2-112
319.6 + 15.7	14 22.4−44 09	IC 4406
320.1 − 09.6	15 56.0−66 09	He 2-138
320.3 − 28.8	19 33.8−74 33	He 2-434
320.9 + 02.0	15 06.0−55 59	He 2-117
321.0 + 08.3	14 46.6−50 23	MeWe 1-5
321.0 + 03.9	14 59.9−54 18	He 2-113
321.0 − 03.8	15 30.3−61 02	HaTr 2
321.3 + 02.8	15 05.3−55 11	He 2-115
321.3 − 16.7	17 01.3−70 06	He 2-185
321.8 + 01.9	15 11.9−55 40	He 2-120
322.1 − 06.6	15 52.2−62 31	He 2-136
322.4 − 00.1	15 23.7−57 09	Pe 2-8
322.4 − 02.6	15 34.3−59 09	Mz 1
322.5 − 05.2	15 47.7−61 13	NGC 5979
323.1 − 02.5	15 38.0−58 45	He 2-132
323.9 + 02.4	15 22.3−54 08	He 2-123
324.0 + 03.5	15 19.1−53 10	PM 1-89
324.1 + 09.0	15 01.7−48 21	ESO 223-10
324.2 + 02.5	15 23.6−53 51	He 2-125
324.8 − 01.1	15 42.0−56 37	He 2-133
325.0 + 03.2	15 25.5−52 51	He 2-129
325.4 − 04.0	15 59.2−58 24	He 2-141
325.8 + 04.5	15 25.1−51 20	He 2-128
325.8 − 12.8	16 54.6−64 15	He 2-182
326.0 − 06.5	16 15.7−59 54	He 2-151
326.1 − 01.9	15 53.0−56 24	VBe 3
326.7 + 42.2	14 04.4−17 14	IC 972
327.1 − 01.8	15 58.1−55 42	He 2-140
327.1 − 02.2	16 00.0−55 55	He 2-142
327.5 + 13.3	15 06.2−43 00	He 2-118
327.7 − 05.4	16 19.3−57 58	KoRe 1
327.8 + 10.0	15 16.8−45 39	NGC 5882
327.8 − 01.6	16 01.0−55 06	He 2-143
327.8 − 06.1	16 23.5−58 19	He 2-158
327.8 − 07.2	16 29.5−59 09	He 2-163
327.9 − 04.3	16 14.0−56 59	He 2-147
328.2 + 01.3	15 49.5−52 31	Lo 10
328.9 − 02.4	16 10.7−54 58	He 2-146
329.0 + 01.9	15 51.7−51 31	Sp 1
329.3 − 02.8	16 14.5−54 57	Mz 2
329.4 − 02.7	16 14.4−54 48	He 2-149
329.5 + 01.7	15 55.1−51 24	VBRC 7
329.5 − 02.2	16 12.6−54 24	Wray 17-75

PN G	α_{2000} δ_{2000}	Name
330.2 + 05.9	15 42.2−47 41	Lo 9
330.6 − 02.1	16 17.2−53 32	He 2-153
330.6 − 03.6	16 24.4−54 36	He 2-159
330.7 + 04.1	15 51.3−48 45	Cn 1-1
330.9 + 04.3	15 51.3−48 26	Wray 16-189
331.0 − 02.7	16 22.2−53 41	He 2-157
331.1 − 05.7	16 37.7−55 42	PC 11
331.3 + 16.8	15 12.8−38 07	NGC 5873
331.4 + 00.5	16 09.0−51 02	He 2-145
331.4 − 03.5	16 27.9−54 01	He 2-162
331.5 − 02.7	16 24.6−53 23	He 2-161
331.5 − 03.9	16 30.0−54 10	He 2-165
331.7 − 01.0	16 17.2−51 59	Mz 3
332.0 − 03.3	16 29.9−53 23	He 2-164
332.2 + 03.5	16 00.4−48 16	Wray 16-199
332.3 − 04.2	16 35.4−53 50	He 2-170
332.8 − 16.4	17 51.9−60 23	HaTr 6
332.9 − 09.9	17 09.0−56 55	He 3-1333
333.4 + 01.1	16 15.3−49 13	He 2-152
333.4 − 04.0	16 39.6−52 49	HaTr 3
334.3 − 01.4	16 31.1−50 27	MeWe 1-6
334.3 − 09.3	17 11.8−55 24	IC 4642
334.8 − 07.4	17 03.0−53 56	SaSt 2-12
335.2 − 03.6	16 45.0−51 12	HaTr 4
335.4 + 09.2	15 53.2−41 50	ESO 330-02
335.4 − 01.1	16 34.2−49 21	He 2-169
335.5 + 12.4	15 43.0−39 20	DS 2
335.6 − 04.0	16 48.7−51 09	MeWe 1-8
335.9 − 03.6	16 48.0−50 43	MeWe 1-7
336.2 + 01.9	16 23.9−46 42	Pe 1-6
336.2 − 06.9	17 06.2−52 30	PC 14
336.3 − 05.6	16 59.6−51 42	He 2-186
336.8 − 07.2	17 09.6−52 13	K 2-17
336.9 + 08.3	16 02.2−41 34	StWr 4-10
336.9 − 11.5	17 34.5−54 29	MeWe 1-10
337.4 + 01.6	16 30.4−46 03	Pe 1-7
337.4 − 09.1	17 22.6−52 47	Wray 16-266
337.5 − 05.1	17 01.6−50 23	He 2-187
337.6 − 04.2	16 57.5−49 47	MeWe 1-9
338.1 − 08.3	17 20.8−51 45	NGC 6326
338.8 + 05.6	16 19.4−42 16	He 2-155
339.9 + 88.4	12 55.6+25 53	LoTr 5
340.4 − 14.1	18 01.0−52 44	Sa 1-6
340.8 + 12.3	16 03.4−36 01	Lo 11
340.8 + 10.8	16 08.4−37 09	Lo 12
340.9 − 04.6	17 11.5−47 25	Sa 1-5
341.2 − 24.6	19 09.8−55 35	Lo 18
341.5 − 09.1	17 36.1−49 26	He 2-248
341.6 + 13.7	16 01.3−34 33	NGC 6026
341.8 + 05.4	16 31.5−40 15	NGC 6153
342.1 + 27.5	15 22.3−23 38	Me 2-1
342.1 + 10.8	16 13.0−36 14	NGC 6072
342.5 − 14.3	18 07.3−51 01	Sp 3

PN G	α_{2000} δ_{2000}	Name
342.7 + 00.7	16 53.5−42 39	H 1-3
342.8 − 06.6	17 27.8−46 56	Cn 1-4
342.9 − 02.0	17 06.4−44 13	Pe 1-8
342.9 − 04.9	17 19.5−45 53	He 2-207
343.0 − 01.7	17 05.7−43 57	Vd 1-9
343.3 − 00.6	17 01.5−43 06	HaTr 5
343.4 + 11.9	16 13.5−34 36	H 1-1
343.5 − 07.8	17 35.7−47 00	PC 17
343.6 + 03.7	16 44.4−40 03	SuWt 3
343.9 + 00.8	16 57.4−41 38	H 1-5
344.2 + 04.7	16 42.6−38 54	Vd 1-1
344.2 − 01.2	17 07.0−42 41	H 1-6
344.4 + 02.8	16 50.6−40 03	Vd 1-5
344.4 − 06.1	17 30.1−45 23	Wray 16-278
344.8 + 03.4	16 49.5−39 21	Vd 1-3
345.0 + 04.3	16 46.8−38 37	Vd 1-2
345.0 + 03.4	16 50.4−39 08	Vd 1-4
345.0 − 04.9	17 26.2−44 11	Cn 1-3
345.2 − 01.2	17 10.5−41 53	H 1-7
345.2 − 08.8	17 45.6−46 05	Tc 1
345.3 − 10.2	17 52.8−46 42	MeWe 1-11
345.4 + 00.1	17 05.2−40 53	IC 4637
345.5 + 15.1	16 09.7−30 54	Lo 13
345.6 + 06.7	16 39.5−36 34	He 2-175
345.9 + 03.0	16 54.5−38 44	Vd 1-6
345.9 − 11.2	17 59.6−46 39	ESO 279-14
346.0 + 08.5	16 34.1−35 05	He 2-171
346.2 − 08.2	17 45.5−44 54	IC 4663
346.3 − 06.8	17 39.3−44 10	Fg 2
346.9 + 12.4	16 23.3−31 45	K 1-3
347.4 + 05.8	16 48.9−35 47	H 1-2
347.7 + 02.0	17 04.6−37 53	Vd 1-8
348.0 + 06.3	16 48.8−35 01	MGP 1
348.0 − 13.8	18 18.5−45 59	IC 4699
348.4 − 04.1	17 32.8−40 58	H 1-21
348.8 − 09.0	17 56.6−43 03	He 2-306
349.2 − 03.5	17 32.3−39 51	H 2-14
349.3 − 01.1	17 22.3−38 29	NGC 6337
349.3 − 04.2	17 35.7−40 12	Lo 16
349.5 + 01.0	17 13.7−37 06	NGC 6302
349.8 + 04.4	17 01.1−34 50	M 2-4
350.1 − 03.9	17 36.5−39 22	H 1-26
350.5 − 05.0	17 42.9−39 36	H 1-28
350.8 − 02.4	17 32.3−37 58	H 1-22
350.9 + 04.4	17 04.6−33 59	H 2-1
351.0 − 10.4	18 09.0−41 48	HaTr 9
351.1 + 04.8	17 03.8−33 30	M 1-19
351.2 + 05.2	17 02.3−33 10	M 2-5
351.3 + 07.6	16 53.6−31 41	H 1-4
351.6 − 06.2	17 50.7−39 17	H 1-37
351.7 − 10.9	18 12.9−41 30	Wray 16-385
351.9 + 09.0	16 50.3−30 20	PC 13
351.9 − 01.9	17 33.0−36 44	Wray 16-286

PN G	α_{2000} δ_{2000}	Name
352.0 − 04.6	17 45.1−38 09	H 1-30
352.1 + 05.1	17 05.5−32 32	M 2-8
352.6 + 03.0	17 14.7−33 25	H 1-8
352.6 + 00.1	17 26.4−35 02	H 1-12
352.8 − 00.2	17 28.5−35 08	H 1-13
352.9 + 11.4	16 44.8−28 04	K 2-16
352.9 − 07.5	18 00.2−38 50	Fg 3
353.2 − 05.2	17 50.7−37 24	H 1-38
353.3 + 06.3	17 04.3−30 53	M 2-6
353.5 − 04.9	17 49.8−37 01	H 1-36
353.7 + 06.3	17 05.2−30 32	M 2-7
353.7 − 12.8	18 26.7−40 30	Wray 16-411
354.2 + 04.3	17 14.1−31 20	M 2-10
354.4 − 07.8	18 05.0−37 38	H 1-52
354.5 + 03.3	17 18.9−31 39	Th 3-4
354.9 + 03.5	17 19.3−31 13	Th 3-6
355.1 + 02.3	17 24.4−31 43	Th 3-11
355.1 − 02.9	17 45.5−34 34	H 1-31
355.1 − 06.9	18 02.5−36 39	M 3-21
355.2 − 02.5	17 44.2−34 17	H 1-29
355.4 − 02.4	17 44.3−34 07	M 3-14
355.4 − 04.0	17 51.2−34 55	Hf 2-1
355.6 − 02.7	17 46.1−34 04	H 1-32
355.7 − 03.0	17 47.8−34 08	H 1-33
355.7 − 03.5	17 49.2−34 23	H 1-35
355.7 − 03.4	17 49.0−34 22	H 2-23
355.9 + 03.6	17 21.5−30 21	H 1-9
355.9 + 02.7	17 24.7−30 52	Th 3-10
355.9 − 04.2	17 53.0−34 38	M 1-30
356.1 + 02.7	17 25.3−30 41	Th 3-13
356.1 − 03.3	17 49.8−34 00	H 2-26
356.2 − 04.4	17 54.6−34 22	Cn 2-1
356.3 − 06.2	18 02.5−35 13	M 3-49
356.5 + 05.1	17 17.3−29 00	Th 3-3
356.5 + 01.5	17 31.0−31 01	Th 3-55
356.5 − 02.3	17 46.8−33 09	M 1-27
356.5 − 03.6	17 51.8−33 48	H 2-27
356.5 − 03.9	17 53.3−33 56	H 1-39
356.6 − 07.8	18 09.8−35 44	H 1-57
356.7 − 04.8	17 57.3−34 10	H 1-41
356.7 − 06.4	18 04.5−34 58	H 1-51
356.8 + 03.3	17 25.1−29 45	Th 3-12
356.8 − 05.4	18 00.3−34 28	H 2-35
356.8 − 11.7	18 27.8−37 16	Lo 17
356.9 + 04.4	17 21.1−29 03	M 3-38
356.9 + 04.5	17 20.6−29 01	M 2-11
356.9 − 05.8	18 02.0−34 28	M 2-24
357.0 + 02.4	17 28.8−30 08	M 4-4
357.1 + 04.4	17 21.6−28 55	TeJu 18
357.1 + 03.6	17 24.6−29 24	M 3-7
357.1 + 01.9	17 30.9−30 17	Th 3-24
357.1 − 04.7	17 58.3−33 48	H 1-43
357.1 − 06.1	18 04.1−34 29	M 3-50

PN G	α_{2000} δ_{2000}	Name
357.2 + 07.4	17 10.7−27 09	M 4-3
357.2 + 02.0	17 31.1−30 11	H 2-13
357.2 + 01.4	17 33.3−30 27	Al 2-H
357.2 − 04.5	17 57.4−33 36	H 1-42
357.3 + 04.0	17 23.4−28 59	H 2-7
357.3 + 03.3	17 26.0−29 22	M 3-41
357.4 − 03.2	17 52.6−32 46	M 2-16
357.4 − 03.5	17 53.6−32 59	M 2-18
357.4 − 04.6	17 58.5−33 29	M 2-22
357.5 + 03.2	17 27.0−29 16	M 3-42
357.5 + 03.1	17 27.4−29 21	Th 3-16
357.6 + 02.6	17 29.7−29 33	H 1-18
357.6 + 01.7	17 32.8−30 00	H 1-23
357.6 + 01.0	17 35.7−30 21	TrBr 4
357.6 − 03.3	17 53.3−32 41	H 2-29
357.9 − 03.8	17 56.2−32 38	H 2-30
357.9 − 05.1	18 01.4−33 18	M 1-34
358.0 + 09.3	17 05.8−25 24	Th 3-1
358.0 + 07.5	17 12.5−26 26	TeJu 8
358.0 + 02.6	17 30.4−29 10	Th 3-23
358.0 − 05.1	18 01.7−33 15	Pe 1-11
358.2 + 04.2	17 24.9−28 06	M 3-8
358.2 + 03.5	17 27.5−28 31	H 2-10
358.2 + 03.6	17 27.3−28 28	M 3-10
358.2 − 01.1	17 46.0−31 04	Bl D
358.3 + 03.0	17 29.7−28 41	H 1-17
358.3 + 01.2	17 37.0−29 40	Bl B
358.3 − 02.5	17 51.7−31 36	Al 2-O
358.3 − 21.6	19 17.4−39 37	IC 1297
358.4 + 03.3	17 28.7−28 27	Th 3-19
358.5 + 05.4	17 21.2−27 11	M 3-39
358.5 + 03.7	17 27.8−28 11	Al 2-B
358.5 + 02.6	17 31.8−28 42	HDW 8
358.5 + 02.9	17 30.5−28 36	Al 2-F
358.5 − 02.5	17 52.2−31 30	M 4-7
358.5 − 04.2	17 59.0−32 22	H 1-46
358.5 − 07.3	18 12.1−33 52	NGC 6563
358.6 + 07.8	17 12.7−25 44	M 3-36
358.6 + 01.8	17 35.2−29 03	M 4-6
358.6 − 05.5	18 04.9−32 54	M 3-51
358.7 + 05.2	17 22.5−27 09	M 3-40
358.7 − 02.7	17 53.6−31 26	Al 2-R
358.7 − 05.2	18 03.9−32 42	H 1-50
358.8 + 04.1	17 26.9−27 41	SaWe 2
358.8 + 04.0	17 27.2−27 44	Th 3-15
358.8 + 03.0	17 31.2−28 15	Th 3-26
358.8 − 00.0	17 42.7−29 52	Te 2022
358.9 + 03.4	17 30.0−27 59	H 1-19
358.9 + 03.2	17 30.7−28 04	H 1-20
358.9 − 00.7	17 46.0−30 12	M 1-26
358.9 − 03.7	17 58.2−31 43	H 1-44
359.0 + 02.8	17 32.4−28 15	Al 2-G
359.0 − 04.8	18 02.8−32 10	M 2-25
359.0 − 04.1	17 59.9−31 55	M 3-48
359.1 + 15.1	16 48.6−21 01	A 40
359.1 − 01.7	17 50.3−30 35	M 1-29
359.1 − 02.3	17 52.8−30 50	M 3-16
359.1 − 02.9	17 55.1−31 12	M 3-46
359.2 + 04.7	17 25.7−26 58	Th 3-14
359.2 + 01.2	17 39.0−28 57	19W32
359.2 − 33.5	20 19.5−41 32	CRBB 1
359.3 + 03.6	17 30.2−27 30	Al 2-E
359.3 + 01.4	17 38.7−28 43	Th 3-35
359.3 − 00.9	17 47.9−30 00	Hb 5
359.3 − 01.8	17 51.3−30 24	M 3-44
359.3 − 03.1	17 56.4−31 04	M 3-17
359.4 + 02.3	17 35.3−28 07	Th 3-32
359.4 − 03.4	17 58.2−31 08	H 2-33
359.5 + 02.6	17 34.2−27 56	Al 2-K
359.6 + 02.2	17 36.2−28 01	Al 2-I
359.6 − 04.8	18 04.1−31 39	H 2-36
359.7 − 01.8	17 52.1−30 05	M 3-45
359.7 − 02.6	17 55.6−30 34	H 1-40
359.7 − 04.4	18 02.9−31 24	KFL 3
359.8 + 06.9	17 19.2−25 17	M 3-37
359.8 + 05.2	17 25.3−26 13	TeJu 19
359.8 + 05.6	17 24.0−25 59	M 2-12
359.8 + 03.7	17 30.8−27 06	Th 3-25
359.8 + 02.4	17 35.8−27 43	Th 3-33
359.8 − 07.2	18 14.8−32 37	M 2-32
359.9 + 05.1	17 25.7−26 12	M 3-9
359.9 − 04.5	18 03.9−31 18	M 2-27
359.9 − 05.4	18 07.3−31 43	KFL 9

Name	PN G	PK
A 1	119.4 + 06.5	119+ 6°1
A 2	122.1 − 04.9	122− 4°1
A 3	131.5 + 02.6	131+ 2°1
A 4	144.3 − 15.5	144−15°1
A 5	141.7 − 07.8	141− 7°1
A 6	136.1 + 04.9	136+ 4°1
A 7	215.5 − 30.8	215−30°1
A 8	167.0 − 00.9	167− 0°1
A 12	198.6 − 06.3	198− 6°1
A 13	204.0 − 08.5	204− 8°1
A 14	197.8 − 03.3	197− 3°1
A 15	233.5 − 16.3	233−16°1
A 16	153.7 + 22.8	153+22°1
A 18	216.0 − 00.2	216− 0°1
A 19	200.7 + 08.4	200+ 8°1
A 20	214.9 + 07.8	214+ 7°1
A 21	205.1 + 14.2	⋆205+14°1
A 23	249.3 − 05.4	249− 5°1
A 24	217.1 + 14.7	217+14°1
A 26	250.3 + 00.1	250+ 0°1
A 28	158.8 + 37.1	158+37°1
A 29	244.5 + 12.5	244+12°1
A 30	208.5 + 33.2	208+33°1
A 31	219.1 + 31.2	219+31°1
A 33	238.0 + 34.8	238+34°1
A 34	248.7 + 29.5	248+29°1
A 35	303.6 + 40.0	303+40°1
A 36	318.4 + 41.4	318+41°1
A 39	047.0 + 42.4	47+42°1
A 40	359.1 + 15.1	359+15°1
A 41	009.6 + 10.5	9+10°1
A 42	016.0 + 13.5	16+13°1
A 43	036.0 + 17.6	36+17°1
A 44	015.6 − 03.0	15− 3°1
A 45	020.2 − 00.6	20− 0°1
A 46	055.4 + 16.0	55+16°1
A 47	030.8 + 03.4	30+ 3°1
A 48	029.0 + 00.4	29+ 0°1
A 49	027.3 − 03.4	27− 3°1
A 50	078.5 + 18.7	78+18°1
A 51	017.6 − 10.2	17−10°1
A 52	050.4 + 05.2	50+ 5°1
A 53	040.3 − 00.4	40− 0°1
A 54	055.3 + 06.6	55+ 6°1
A 55	033.0 − 05.3	33− 5°1
A 56	037.9 − 03.4	37− 3°2
A 57	058.6 + 06.1	58+ 6°1
A 58	037.5 − 05.1	37− 5°1
A 59	053.3 + 03.0	53+ 3°1
A 60	025.0 − 11.6	25−11°1
A 61	077.6 + 14.7	77+14°1
A 62	047.1 − 04.2	47− 4°1
A 63	053.8 − 03.0	53− 3°1

Name	PN G	PK
A 65	017.3 − 21.9	17−21°1
A 66	019.8 − 23.7	19−23°1
A 67	043.5 − 13.4	43−13°1
A 68	060.0 − 04.3	60− 4°1
A 69	076.3 + 01.1	76+ 1°1
A 70	038.1 − 25.4	38−25°1
A 71	084.9 + 04.4	85+ 4°1
A 72	059.7 − 18.7	59−18°1
A 73	095.2 + 07.8	95+ 7°1
A 74	072.7 − 17.1	72−17°1
A 75	101.8 + 08.7	101+ 8°1
A 77	097.5 + 03.1	97+ 3°1
A 78	081.2 − 14.9	81−14°1
A 79	102.9 − 02.3	102− 2°1
A 80	102.8 − 05.0	102− 5°1
A 82	114.0 − 04.6	114− 4°1
A 83	113.6 − 06.9	113− 6°1
A 84	112.9 − 10.2	112−10°1
A 86	118.7 + 08.2	118+ 8°2
Al 1	006.8 − 08.6	⋆ 6− 8°1
Al 2-B	358.5 + 03.7	⋆358+ 3°9
Al 2-E	359.3 + 03.6	⋆359+ 3°4
Al 2-F	358.5 + 02.9	⋆358+ 2°4
Al 2-G	359.0 + 02.8	⋆359+ 2°5
Al 2-H	357.2 + 01.4	⋆357+ 1°2
Al 2-I	359.6 + 02.2	⋆359+ 2°6
Al 2-J	000.1 + 02.6	⋆ 0+ 2°1
Al 2-K	359.5 + 02.6	⋆359+ 2°7
Al 2-O	358.3 − 02.5	⋆358− 2°4
Al 2-Q	000.5 − 01.6	⋆ 0− 1°7
Al 2-R	358.7 − 02.7	⋆358− 2°5
Anon. 20h02m	075.6 + 04.3	75+ 4°1
Ap 1-12	003.3 − 04.6	3− 4°7
Ap 2-1	035.1 − 00.7	35− 0°1
Ba 1	171.3 − 25.8	171−25°1
BD+30 3639	064.7 + 05.0	64+ 5°1
Bl B	358.3 + 01.2	358+ 1°4
Bl D	358.2 − 01.1	358− 1°1
Bl M	001.3 − 01.2	1− 1°1
Bl O	000.8 − 01.5	0− 1°3
Bl Q	001.6 − 01.3	1− 1°2
Bl 2-1	104.1 + 01.0	104+ 0°1
Bl 3-10	000.1 − 02.3	0− 2°2
Bl 3-13	000.9 − 02.0	0− 2°1
Bl 3-15	000.6 − 01.3	0− 1°2
BlDz 1	293.6 + 10.9	⋆293+10°1
BoBn 1	108.4 − 76.1	⋆108−76°1
BV 5-1	119.3 + 00.3	119+ 0°1
BV 5-2	121.6 − 00.0	121+ 0°1
BV 5-3	131.4 − 05.4	131− 5°1
Cn 1-1	330.7 + 04.1	330+ 4°1
Cn 1-3	345.0 − 04.9	345− 4°1
Cn 1-4	342.8 − 06.6	342− 6°1

Name	PN G	PK
Cn 1-5	002.2 − 09.4	2− 9°1
Cn 2-1	356.2 − 04.4	356− 4°1
Cn 3-1	038.2 + 12.0	38+12°1
CRBB 1	359.2 − 33.5	
CRL 618	166.4 − 06.5	⋆166− 6°1
CTIO 1230-275	298.0 + 34.8	⋆298+34°1
CTS 1	019.8 + 05.6	
CTSS 2	044.1 + 05.8	
CTSS 3	046.8 + 03.8	
CTSS 4	046.8 + 02.9	
Dd 1	078.6 + 05.2	⋆ 78+ 5°1
DdDm 1	061.9 + 41.3	⋆ 61+41°1
DeHt 1	228.2 − 22.1	⋆228−22°1
DeHt 2	027.6 + 16.9	⋆ 27+16°1
DeHt 3	019.4 − 13.6	⋆ 19−13°1
DeHt 4	048.7 − 01.5	⋆ 48− 1°1
DeHt 5	111.0 + 11.6	⋆111+11°1
DS 2	335.5 + 12.4	⋆335+12°1
DuRe 1	302.3 − 01.3	
EGB 1	124.0 + 10.7	⋆124+10°1
EGB 4	143.6 + 23.8	
EGB 5	211.9 + 22.6	⋆211+22°1
EGB 6	221.5 + 46.3	⋆221+46°1
ESO 040-11	305.6 − 13.1	⋆305−13°1
ESO 095-12	300.8 − 03.4	⋆300− 3°1
ESO 135-04	318.4 − 03.0	⋆318− 3°1
ESO 209-15	263.3 − 08.8	⋆263− 8°1
ESO 215-04	283.9 + 09.7	⋆283+ 9°1
ESO 216-02	288.7 + 08.1	⋆288+ 8°1
ESO 223-10	324.1 + 09.0	⋆324+ 9°1
ESO 259-10	265.1 − 04.2	⋆265− 4°1
ESO 279-14	345.9 − 11.2	⋆345−11°1
ESO 320-28	291.4 + 19.2	⋆291+19°1
ESO 330-02	335.4 + 09.2	⋆335+ 9°1
ESO 427-19	239.6 − 12.0	⋆239−12°1
Fg 1	290.5 + 07.9	290+ 7°1
Fg 2	346.3 − 06.8	346− 6°1
Fg 3	352.9 − 07.5	352− 7°1
GJJC 1	009.8 − 07.5	
H 1-1	343.4 + 11.9	343+11°1
H 1-2	347.4 + 05.8	347+ 5°1
H 1-3	342.7 + 00.7	342+ 0°1
H 1-4	351.3 + 07.6	351+ 7°1
H 1-5	343.9 + 00.8	344+ 0°1
H 1-6	344.2 − 01.2	344− 1°1
H 1-7	345.2 − 01.2	345− 1°1
H 1-8	352.6 + 03.0	352+ 3°2
H 1-9	355.9 + 03.6	355+ 3°2
H 1-11	002.6 + 08.1	2+ 8°1
H 1-12	352.6 + 00.1	352+ 0°1
H 1-13	352.8 − 00.2	352− 0°1
H 1-14	001.7 + 05.7	1+ 5°1
H 1-15	001.4 + 05.3	1+ 5°2

Name	PN G	PK
H 1-16	000.1 + 04.3	0+4°2
H 1-17	358.3 + 03.0	358+3°7
H 1-18	357.6 + 02.6	357+2°4
H 1-19	358.9 + 03.4	358+3°4
H 1-20	358.9 + 03.2	358+3°6
H 1-21	348.4 − 04.1	348−4°1
H 1-22	350.8 − 02.4	350−2°1
H 1-23	357.6 + 01.7	357+1°1
H 1-24	004.6 + 06.0	4+6°2
H 1-26	350.1 − 03.9	350−3°1
H 1-27	005.0 + 04.4	5+4°1
H 1-28	350.5 − 05.0	350−5°1
H 1-29	355.2 − 02.5	355−2°2
H 1-30	352.0 − 04.6	352−4°1
H 1-31	355.1 − 02.9	355−2°4
H 1-32	355.6 − 02.7	355−2°3
H 1-33	355.7 − 03.0	355−3°1
H 1-34	005.5 + 02.7	5+2°1
H 1-35	355.7 − 03.5	355−3°3
H 1-36	353.5 − 04.9	353−4°1
H 1-37	351.6 − 06.2	351−6°1
H 1-38	353.2 − 05.2	353−5°1
H 1-39	356.5 − 03.9	356−3°3
H 1-40	359.7 − 02.6	359−2°3
H 1-41	356.7 − 04.8	356−4°2
H 1-42	357.2 − 04.5	357−4°1
H 1-43	357.1 − 04.7	357−4°3
H 1-44	358.9 − 03.7	358−3°1
H 1-45	002.0 − 02.0	2−2°1
H 1-46	358.5 − 04.2	358−4°1
H 1-47	001.2 − 03.0	1−3°1
H 1-50	358.7 − 05.2	358−5°3
H 1-51	356.7 − 06.4	356−6°2
H 1-52	354.4 − 07.8	354−7°1
H 1-53	004.3 − 02.6	4−2°1
H 1-54	002.1 − 04.2	2−4°1
H 1-55	001.7 − 04.4	1−4°1
H 1-56	001.7 − 04.6	1−4°2
H 1-57	356.6 − 07.8	356−7°2
H 1-58	005.1 − 03.0	5−3°1
H 1-59	003.8 − 04.3	3−4°3
H 1-60	004.2 − 04.3	4−4°1
H 1-61	006.5 − 03.1	6−3°1
H 1-62	000.0 − 06.8	359−6°1
H 1-63	002.2 − 06.3	2−6°2
H 1-64	008.4 − 03.6	8−3°1
H 1-65	007.8 − 04.4	7−4°1
H 1-66	007.0 − 06.0	7−6°1
H 1-67	009.8 − 04.6	9−4°1
H 2-1	350.9 + 04.4	350+4°1
H 2-7	357.3 + 04.0	357+4°1
H 2-8	003.7 + 07.9	3+7°1
H 2-10	358.2 + 03.5	358+3°2

Name	PN G	PK
H 2-11	000.7 + 04.7	0+ 4°1
H 2-12	004.5 + 06.8	4+ 6°1
H 2-13	357.2 + 02.0	357+ 2°6
H 2-14	349.2 − 03.5	349− 3°1
H 2-15	003.8 + 05.3	3+ 5°1
H 2-16	005.8 + 05.1	5+ 5°2
H 2-17	003.1 + 03.4	3+ 3°1
H 2-18	006.3 + 04.4	6+ 4°1
H 2-20	002.8 + 01.7	2+ 1°1
H 2-22	006.3 + 03.3	6+ 3°1
H 2-23	355.7 − 03.4	355− 3°2
H 2-24	004.3 + 01.8	4+ 1°1
H 2-25	004.8 + 02.0	4+ 2°1
H 2-26	356.1 − 03.3	356− 3°1
H 2-27	356.5 − 03.6	356− 3°2
H 2-29	357.6 − 03.3	357− 3°3
H 2-30	357.9 − 03.8	358− 3°2
H 2-31	001.7 − 01.6	1− 1°3
H 2-32	000.6 − 02.3	0− 2°3
H 2-33	359.4 − 03.4	359− 3°2
H 2-35	356.8 − 05.4	356− 5°1
H 2-36	359.6 − 04.8	359− 4°4
H 2-37	002.3 − 03.4	2− 3°2
H 2-39	002.9 − 03.9	2− 3°6
H 2-40	000.1 − 05.6	0− 5°1
H 2-41	003.8 − 04.5	3− 4°4
H 2-42	005.0 − 03.9	5− 3°2
H 2-43	003.4 − 04.8	3− 4°9
H 2-44	005.5 − 04.0	5− 4°1
H 2-45	006.8 − 03.4	6− 3°2
H 2-46	000.8 − 07.6	0− 7°2
H 2-48	011.3 − 09.4	11− 9°1
H 3-29	174.2 − 14.6	174−14°1
H 3-75	193.6 − 09.5	193− 9°1
H 4-1	049.3 + 88.1	49+88°1
HaTr 1	299.4 − 04.1	⋆299− 4°1
HaTr 2	321.0 − 03.8	⋆321− 3°1
HaTr 3	333.4 − 04.0	⋆333− 4°1
HaTr 4	335.2 − 03.6	⋆335− 3°1
HaTr 5	343.3 − 00.6	⋆343− 0°1
HaTr 6	332.8 − 16.4	⋆332−16°1
HaTr 8	006.2 + 01.0	⋆ 6+ 1°1
HaTr 9	351.0 − 10.4	⋆351−10°2
HaTr 10	031.3 − 00.5	⋆ 31− 0°2
HaTr 11	036.9 − 01.1	⋆ 36− 1°2
HaTr 13	036.9 − 02.6	⋆ 36− 2°1
HaTr 14	041.2 − 00.6	⋆ 41− 0°1
HaWe 5	156.9 − 13.3	
HaWe 9	236.0 − 10.6	
Hb 4	003.1 + 02.9	3+ 2°1
Hb 5	359.3 − 00.9	359− 0°1
Hb 6	007.2 + 01.8	7+ 1°1
Hb 7	003.9 − 14.9	3−14°1

Name	PN G	PK
Hb 8	003.8 − 17.1	3−17°1
Hb 12	111.8 − 02.8	111− 2°1
HBDS 1	273.6 + 06.1	⋆273+ 6°1
HDW 2	138.1 + 04.1	⋆138+ 4°1
HDW 3	149.4 − 09.2	⋆149− 9°1
HDW 5	218.9 − 10.7	⋆218−10°1
HDW 6	192.5 + 07.2	⋆192+ 7°1
HDW 7	211.4 + 18.4	⋆211+18°1
HDW 8	358.5 + 02.6	⋆358+ 2°5
HDW 11	034.1 − 10.5	⋆ 34−10°1
HDW 12	014.8 − 25.6	⋆ 14−25°1
He 1-1	055.3 + 02.7	55+ 2°2
He 1-2	055.6 + 02.1	55+ 2°3
He 1-3	059.0 − 01.7	59− 1°1
He 1-4	068.6 + 01.1	68+ 1°2
He 1-5	060.3 − 07.3	60− 7°1
He 1-6	065.2 − 05.6	65− 5°1
He 2-5	264.4 − 12.7	264−12°1
He 2-7	264.1 − 08.1	264− 8°1
He 2-9	258.1 − 00.3	258− 0°1
He 2-11	259.1 + 00.9	259+ 0°1
He 2-15	261.6 + 03.0	261+ 2°1
He 2-18	273.2 − 03.7	273− 3°1
He 2-21	275.3 − 04.7	275− 4°2
He 2-25	275.2 − 03.7	275− 3°1
He 2-26	278.6 − 06.7	278− 6°1
He 2-28	275.2 − 02.9	275− 2°1
He 2-29	275.8 − 02.9	275− 2°2
He 2-32	278.5 − 04.5	278− 4°1
He 2-34	274.1 + 02.5	274+ 2°1
He 2-35	274.6 + 02.1	274+ 2°2
He 2-36	279.6 − 03.1	279− 3°1
He 2-37	274.6 + 03.5	274+ 3°1
He 2-39	283.8 − 04.2	283− 4°1
He 2-41	286.0 − 06.5	286− 6°1
He 2-47	285.6 − 02.7	285− 2°1
He 2-48	282.9 + 03.8	282+ 3°1
He 2-50	283.3 + 03.9	283+ 3°1
He 2-51	288.8 − 05.2	288− 5°1
He 2-55	286.3 + 02.8	286+ 2°1
He 2-57	289.6 − 01.6	289− 1°1
He 2-62	295.3 − 09.3	295− 9°1
He 2-63	289.8 + 07.7	289+ 7°1
He 2-64	291.7 + 03.7	291+ 3°1
He 2-67	292.8 + 01.1	292+ 1°2
He 2-68	294.9 − 04.3	294− 4°1
He 2-70	293.6 + 01.2	293+ 1°1
He 2-71	296.4 − 06.9	296− 6°1
He 2-72	294.9 − 00.6	294− 0°1
He 2-73	296.3 − 03.0	296− 3°1
He 2-76	298.2 − 01.7	298− 1°2
He 2-77	298.1 − 00.7	298− 0°1
He 2-78	297.4 + 03.7	297+ 3°1

Name	PN G	PK
He 2-81	299.8 − 01.3	299− 1°1
He 2-82	299.5 + 02.4	299+ 2°1
He 2-83	300.2 + 00.6	300+ 0°1
He 2-84	300.4 − 00.9	300− 0°1
He 2-85	300.5 − 01.1	300− 1°1
He 2-86	300.7 − 02.0	300− 2°1
He 2-88	304.8 + 05.1	304+ 5°1
He 2-90	305.1 + 01.4	305+ 1°1
He 2-96	309.0 + 00.8	309+ 0°1
He 2-97	307.2 − 09.0	307− 9°1
He 2-99	309.0 − 04.2	309− 4°1
He 2-101	311.1 + 03.4	311+ 3°1
He 2-102	311.4 + 02.8	311+ 2°1
He 2-103	310.7 − 02.9	310− 2°1
He 2-104	315.4 + 09.4	315+ 9°1
He 2-105	308.6 − 12.2	308−12°1
He 2-107	312.6 − 01.8	312− 1°1
He 2-108	316.1 + 08.4	316+ 8°1
He 2-109	315.4 + 05.2	315+ 5°1
He 2-111	315.0 − 00.3	315− 0°1
He 2-112	319.2 + 06.8	319+ 6°1
He 2-113	321.0 + 03.9	⋆321+ 3°1
He 2-114	318.3 − 02.0	318− 2°1
He 2-115	321.3 + 02.8	321+ 2°1
He 2-116	318.3 − 02.5	318− 2°2
He 2-117	320.9 + 02.0	321+ 2°2
He 2-118	327.5 + 13.3	327+13°1
He 2-119	317.1 − 05.7	317− 5°1
He 2-120	321.8 + 01.9	321+ 1°1
He 2-123	323.9 + 02.4	323+ 2°1
He 2-125	324.2 + 02.5	324+ 2°1
He 2-128	325.8 + 04.5	325+ 4°1
He 2-129	325.0 + 03.2	325+ 3°1
He 2-131	315.1 − 13.0	315−13°1
He 2-132	323.1 − 02.5	323− 2°1
He 2-133	324.8 − 01.1	324− 1°1
He 2-136	322.1 − 06.6	322− 6°1
He 2-138	320.1 − 09.6	320− 9°1
He 2-140	327.1 − 01.8	327− 1°2
He 2-141	325.4 − 04.0	325− 4°1
He 2-142	327.1 − 02.2	327− 2°1
He 2-143	327.8 − 01.6	327− 1°1
He 2-145	331.4 + 00.5	331+ 0°1
He 2-146	328.9 − 02.4	328− 2°1
He 2-147	327.9 − 04.3	327− 4°1
He 2-149	329.4 − 02.7	329− 2°1
He 2-151	326.0 − 06.5	326− 6°1
He 2-152	333.4 + 01.1	333+ 1°1
He 2-153	330.6 − 02.1	330− 2°1
He 2-155	338.8 + 05.6	338+ 5°1
He 2-157	331.0 − 02.7	331− 2°1
He 2-158	327.8 − 06.1	327− 6°1
He 2-159	330.6 − 03.6	330− 3°1

Name	PN G	PK
He 2-161	331.5 − 02.7	331− 2°2
He 2-162	331.4 − 03.5	331− 3°1
He 2-163	327.8 − 07.2	327− 7°1
He 2-164	332.0 − 03.3	332− 3°1
He 2-165	331.5 − 03.9	331− 3°2
He 2-169	335.4 − 01.1	335− 1°1
He 2-170	332.3 − 04.2	332− 4°1
He 2-171	346.0 + 08.5	346+ 8°1
He 2-175	345.6 + 06.7	345+ 6°1
He 2-182	325.8 − 12.8	325−12°1
He 2-185	321.3 − 16.7	321−16°1
He 2-186	336.3 − 05.6	336− 5°1
He 2-187	337.5 − 05.1	337− 5°1
He 2-207	342.9 − 04.9	342− 4°1
He 2-248	341.5 − 09.1	341− 9°1
He 2-250	000.7 + 03.2	0+ 3°1
He 2-260	008.2 + 06.8	8+ 6°1
He 2-262	001.2 + 02.1	1+ 2°1
He 2-306	348.8 − 09.0	348− 9°1
He 2-406	008.6 − 07.0	8− 7°1
He 2-418	004.7 − 11.8	4−11°2
He 2-428	049.4 + 02.4	49+ 2°1
He 2-429	048.7 + 01.9	48+ 1°1
He 2-430	051.0 + 03.0	51+ 3°1
He 2-432	055.2 + 02.8	55+ 2°1
He 2-434	320.3 − 28.8	320−28°1
He 2-436	004.8 − 22.7	4−22°1
He 2-437	061.3 + 03.6	61+ 3°1
He 2-440	060.5 + 01.8	60+ 1°1
He 2-442	061.8 + 02.1	61+ 2°1
He 2-447	057.9 − 01.5	57− 1°1
He 2-459	068.3 − 02.7	68− 2°1
He 3-1333	332.9 − 09.9	
Hf 4	283.9 − 01.8	283− 1°1
Hf 2-1	355.4 − 04.0	355− 4°1
Hf 2-2	005.1 − 08.9	5− 8°1
Hf 38	288.4 + 00.3	288+ 0°1
Hf 39	288.9 − 00.8	288− 0°1
Hf 48	290.1 − 00.4	290− 0°1
HFG 1	136.3 + 05.5	⋆136+ 5°1
Hu 1-1	119.6 − 06.7	119− 6°1
Hu 1-2	086.5 − 08.8	86− 8°1
Hu 2-1	051.4 + 09.6	51+ 9°1
IC 289	138.8 + 02.8	138+ 2°1
IC 351	159.0 − 15.1	159−15°1
IC 418	215.2 − 24.2	215−24°1
IC 972	326.7 + 42.2	326+42°1
IC 1295	025.4 − 04.7	25− 4°2
IC 1297	358.3 − 21.6	358−21°1
IC 1454	117.5 + 18.9	117+18°1
IC 1747	130.2 + 01.3	130+ 1°1
IC 2003	161.2 − 14.8	161−14°1
IC 2149	166.1 + 10.4	166+10°1

Name	PN G	PK
IC 2165	221.3 − 12.3	221−12°1
IC 2448	285.7 − 14.9	285−14°1
IC 2501	281.0 − 05.6	281− 5°1
IC 2553	285.4 − 05.3	285− 5°1
IC 2621	291.6 − 04.8	291− 4°1
IC 3568	123.6 + 34.5	123+34°1
IC 4191	304.5 − 04.8	304− 4°1
IC 4406	319.6 + 15.7	319+15°1
IC 4593	025.3 + 40.8	25+40°1
IC 4634	000.3 + 12.2	0+12°1
IC 4637	345.4 + 00.1	345+ 0°1
IC 4642	334.3 − 09.3	334− 9°1
IC 4663	346.2 − 08.2	346− 8°1
IC 4673	003.5 − 02.4	3− 2°3
IC 4699	348.0 − 13.8	348−13°1
IC 4732	010.7 − 06.4	10− 6°1
IC 4776	002.0 − 13.4	2−13°1
IC 4846	027.6 − 09.6	27− 9°1
IC 4997	058.3 − 10.9	58−10°1
IC 5117	089.8 − 05.1	89− 5°1
IC 5148-50	002.7 − 52.4	2−52°1
IC 5217	100.6 − 05.4	100− 5°1
IsWe 1	149.7 − 03.3	
IsWe 2	107.7 + 07.8	
J 320	190.3 − 17.7	190−17°1
J 900	194.2 + 02.5	194+ 2°1
Jn 1	104.2 − 29.6	104−29°1
JnEr 1	164.8 + 31.1	164+31°1
K 1-1	252.6 + 04.4	252+ 4°1
K 1-2	253.5 + 10.7	253+10°1
K 1-3	346.9 + 12.4	346+12°1
K 1-4	001.0 + 01.9	1+ 1°1
K 1-7	197.2 − 14.2	197−14°1
K 1-10	229.6 − 02.7	229− 2°1
K 1-11	215.6 + 11.1	215+11°1
K 1-12	236.7 + 03.5	236+ 3°1
K 1-13	224.3 + 15.3	224+15°1
K 1-14	045.6 + 24.3	45+24°1
K 1-15	051.9 + 25.8	51+25°1
K 1-16	094.0 + 27.4	94+27°1
K 1-17	051.5 + 06.1	51+ 6°1
K 1-20	110.6 − 12.9	110−12°1
K 1-21	251.1 − 01.5	⋆251− 1°1
K 1-22	283.6 + 25.3	⋆283+25°1
K 1-23	299.0 + 18.4	⋆299+18°1
K 1-27	286.8 − 29.5	⋆286−29°1
K 1-28	270.1 + 24.8	⋆270+24°1
K 2-1	173.7 − 05.8	173− 5°1
K 2-2	204.1 + 04.7	204+ 4°1
K 2-3	234.3 − 06.6	234− 6°1
K 2-5	014.9 + 06.4	14+ 6°1
K 2-7	019.4 − 19.6	19−19°1
K 2-15	263.2 + 00.4	⋆263+ 0°1

Name	PN G	PK
K 2-16	352.9 + 11.4	⋆352+11°2
K 2-17	336.8 − 07.2	⋆336− 7°1
K 3-1	032.9 + 07.8	32+ 7°1
K 3-2	028.5 + 05.1	28+ 5°1
K 3-3	031.2 + 05.9	31+ 5°1
K 3-4	032.7 + 05.6	32+ 5°1
K 3-5	034.3 + 06.2	34+ 6°1
K 3-6	031.0 + 04.1	30+ 4°1
K 3-7	028.7 + 02.7	28+ 2°1
K 3-11	023.8 − 01.7	23− 1°2
K 3-13	034.0 + 02.2	34+ 2°1
K 3-14	042.0 + 05.4	42+ 5°1
K 3-15	041.8 + 04.4	41+ 4°1
K 3-16	044.0 + 05.2	44+ 5°1
K 3-17	039.8 + 02.1	39+ 2°1
K 3-18	032.0 − 03.0	32− 3°1
K 3-19	032.9 − 02.8	32− 2°2
K 3-20	032.5 − 03.2	32− 3°2
K 3-21	047.1 + 04.1	47+ 4°1
K 3-22	045.6 + 01.5	45+ 1°1
K 3-24	048.7 + 02.3	48+ 2°1
K 3-26	035.7 − 05.0	35− 5°1
K 3-27	061.0 + 08.0	61+ 8°1
K 3-29	048.1 + 01.1	48+ 1°2
K 3-30	040.4 − 03.1	40− 3°1
K 3-31	052.9 + 02.7	52+ 2°1
K 3-33	045.9 − 01.9	45− 1°1
K 3-34	059.0 + 04.6	59+ 4°1
K 3-35	056.0 + 02.0	56+ 2°1
K 3-36	044.3 − 05.6	44− 5°1
K 3-37	059.4 + 02.3	59+ 2°1
K 3-38	053.2 − 01.5	53− 1°1
K 3-39	059.9 + 02.0	59+ 2°2
K 3-40	058.9 + 01.3	58+ 1°1
K 3-41	052.9 − 02.7	52− 2°1
K 3-42	056.4 − 00.9	56− 0°1
K 3-43	055.1 − 01.8	55− 1°1
K 3-45	060.5 − 00.3	60− 0°1
K 3-46	069.2 + 03.8	69+ 3°1
K 3-49	069.2 + 02.8	69+ 2°1
K 3-51	056.8 − 06.9	56− 6°1
K 3-52	067.9 − 00.2	67− 0°1
K 3-53	064.9 − 02.1	64− 2°1
K 3-54	063.8 − 03.3	63− 3°1
K 3-55	069.7 − 00.0	69+ 0°1
K 3-56	079.9 + 06.4	79+ 6°1
K 3-57	072.1 + 00.1	72+ 0°1
K 3-58	069.6 − 03.9	69− 3°1
K 3-60	098.2 + 04.9	98+ 4°1
K 3-61	096.3 + 02.3	96+ 2°1
K 3-62	095.2 + 00.7	95+ 0°1
K 3-63	098.1 + 02.4	98+ 2°1
K 3-64	151.4 + 00.5	⋆151+ 0°1

Name	PN G	PK
K 3-65	153.7 − 01.4	⋆153−1°1
K 3-66	167.4 − 09.1	⋆167−9°1
K 3-67	165.5 − 06.5	⋆165−6°1
K 3-68	178.3 − 02.5	⋆178−2°1
K 3-69	170.7 + 04.6	⋆170+4°1
K 3-70	184.6 + 00.6	⋆184+0°1
K 3-71	184.8 + 04.4	⋆184+4°1
K 3-72	204.8 − 03.5	⋆204−3°1
K 3-73	084.0 + 09.5	⋆ 84+9°1
K 3-76	073.0 − 02.4	⋆ 73−2°1
K 3-78	088.7 + 04.6	⋆ 88+4°1
K 3-79	092.1 + 05.8	⋆ 92+5°1
K 3-80	084.2 − 04.2	⋆ 84−4°1
K 3-81	083.9 − 08.4	⋆ 83−8°1
K 3-82	093.3 − 00.9	⋆ 93−0°1
K 3-83	094.5 − 00.8	⋆ 94−0°1
K 3-84	091.6 − 04.8	⋆ 91−4°1
K 3-87	107.4 − 02.6	⋆107−2°2
K 3-88	112.5 + 03.7	⋆112+3°1
K 3-90	126.3 + 02.9	⋆126+3°1
K 3-91	129.5 + 04.5	⋆129+4°1
K 3-92	130.4 + 03.1	⋆130+3°1
K 3-93	132.4 + 04.7	⋆132+4°1
K 3-94	142.1 + 03.4	⋆142+3°1
K 4-5	026.6 − 01.5	26−1°1
K 4-8	025.3 − 04.6	25−4°1
K 4-10	052.2 + 07.6	52+7°1
K 4-16	048.5 + 04.2	48+4°2
K 4-19	038.4 − 03.3	38−3°1
K 4-28	050.4 − 01.6	50−1°1
K 4-37	066.9 + 02.2	66+2°1
K 4-41	068.7 + 01.9	68+1°1
K 4-47	149.0 + 04.4	⋆149+4°1
K 4-48	201.7 + 02.5	⋆201+2°1
K 4-53	078.3 − 02.7	⋆ 78−2°1
K 4-55	084.2 + 01.0	⋆ 84+1°1
K 4-57	107.4 − 00.6	⋆107−0°1
KFL 1	000.5 − 03.1	
KFL 2	002.2 − 02.5	
KFL 3	359.7 − 04.4	
KFL 4	003.0 − 02.6	
KFL 7	003.9 − 03.1	
KFL 9	359.9 − 05.4	
KFL 10	004.2 − 03.2	
KFL 11	004.1 − 03.8	
KFL 12	003.2 − 04.4	
KFL 13	005.7 − 03.6	
KFL 14	002.5 − 05.4	
KFL 15	006.2 − 03.7	
KFL 16	005.6 − 04.7	
KFL 19	003.3 − 07.5	
KjPn 1	077.5 + 03.7	⋆ 77+3°1
KjPn 2	077.7 + 03.1	⋆ 77+3°2

Name	PN G	PK
KjPn 3	076.4 + 01.8	⋆ 76+ 1°2
KjPn 6	111.2 + 07.0	⋆111+ 6°1
KjPn 8	112.5 − 00.1	⋆112− 0°1
KoRe 1	327.7 − 05.4	
Lo 1	255.3 − 59.6	⋆255−59°1
Lo 4	274.3 + 09.1	⋆274+ 9°1
Lo 5	286.5 + 11.6	⋆286+11°1
Lo 6	294.1 + 14.4	⋆294+14°1
Lo 8	310.3 + 24.7	⋆310+24°1
Lo 9	330.2 + 05.9	⋆330+ 5°1
Lo 10	328.2 + 01.3	⋆328+ 1°1
Lo 11	340.8 + 12.3	⋆340+12°1
Lo 12	340.8 + 10.8	⋆340+10°1
Lo 13	345.5 + 15.1	⋆345+15°1
Lo 16	349.3 − 04.2	⋆349− 4°1
Lo 17	356.8 − 11.7	⋆356−11°1
Lo 18	341.2 − 24.6	⋆341−24°1
LoTr 5	339.9 + 88.4	⋆339+88°1
LoTr 7	310.8 − 05.9	⋆310− 5°1
LoTr 8	315.7 + 05.5	⋆315+ 5°2
LoTr 9	315.7 − 01.2	⋆315− 1°1
LoTr 10	316.3 − 01.3	⋆316− 1°1
LoTr 11	313.8 − 12.6	⋆313−12°1
LSA 1	029.8 − 07.8	
M 1-1	130.3 − 11.7	130−11°1
M 1-2	133.1 − 08.6	133− 8°1
M 1-4	147.4 − 02.3	147− 2°1
M 1-5	184.0 − 02.1	184− 2°1
M 1-6	211.2 − 03.5	211− 3°1
M 1-7	189.8 + 07.7	189+ 7°1
M 1-8	210.3 + 01.9	210+ 1°1
M 1-9	212.0 + 04.3	212+ 4°1
M 1-11	232.8 − 04.7	232− 4°1
M 1-12	235.3 − 03.9	235− 3°1
M 1-13	232.4 − 01.8	232− 1°1
M 1-14	234.9 − 01.4	235− 1°1
M 1-16	226.7 + 05.6	226+ 5°1
M 1-17	228.8 + 05.3	228+ 5°1
M 1-18	231.4 + 04.3	231+ 4°1
M 1-19	351.1 + 04.8	351+ 4°1
M 1-20	006.1 + 08.3	6+ 8°1
M 1-22	007.5 + 07.4	7+ 7°1
M 1-23	007.6 + 06.9	7+ 6°1
M 1-24	007.0 + 06.3	7+ 6°2
M 1-25	004.9 + 04.9	4+ 4°1
M 1-26	358.9 − 00.7	358− 0°2
M 1-27	356.5 − 02.3	356− 2°2
M 1-28	006.0 + 03.1	6+ 3°2
M 1-29	359.1 − 01.7	359− 1°1
M 1-30	355.9 − 04.2	355− 4°2
M 1-31	006.4 + 02.0	6+ 2°5
M 1-32	011.9 + 04.2	11+ 4°1
M 1-33	013.1 + 04.1	13+ 4°1

Name	PN G	PK
M 1-34	357.9 − 05.1	357− 5°1
M 1-35	003.9 − 02.3	3− 2°1
M 1-37	002.6 − 03.4	2− 3°3
M 1-38	002.4 − 03.7	2− 3°5
M 1-39	015.9 + 03.3	15+ 3°1
M 1-40	008.3 − 01.1	8− 1°1
M 1-41	006.7 − 02.2	6− 2°1
M 1-42	002.7 − 04.8	2− 4°2
M 1-43	011.7 − 00.0	11− 0°1
M 1-44	004.9 − 04.9	4− 4°2
M 1-45	012.6 − 02.7	12− 2°1
M 1-46	016.4 − 01.9	16− 1°1
M 1-47	011.0 − 05.1	11− 5°1
M 1-48	013.4 − 03.9	13− 3°1
M 1-50	014.6 − 04.3	14− 4°1
M 1-51	020.9 − 01.1	21− 1°1
M 1-52	017.7 − 02.9	17− 2°1
M 1-53	015.4 − 04.5	15− 4°1
M 1-54	016.0 − 04.3	16− 4°1
M 1-55	011.7 − 06.6	11− 6°1
M 1-56	016.1 − 04.7	16− 4°2
M 1-57	022.1 − 02.4	22− 2°1
M 1-58	022.0 − 03.1	22− 3°1
M 1-59	023.9 − 02.3	23− 2°1
M 1-60	019.7 − 04.5	19− 4°1
M 1-61	019.4 − 05.3	19− 5°1
M 1-62	012.5 − 09.8	12− 9°1
M 1-63	021.1 − 05.9	21− 5°1
M 1-64	064.9 + 15.5	64+15°1
M 1-65	043.1 + 03.8	43+ 3°1
M 1-66	032.7 − 02.0	32− 2°1
M 1-67	050.1 + 03.3	50+ 3°1
M 1-69	038.7 − 03.3	38− 3°2
M 1-71	055.5 − 00.5	55− 0°1
M 1-72	054.4 − 02.5	54− 2°1
M 1-73	051.9 − 03.8	51− 3°1
M 1-74	052.2 − 04.0	52− 4°1
M 1-75	068.8 − 00.0	68− 0°1
M 1-77	089.3 − 02.2	89− 2°1
M 1-78	093.5 + 01.4	93+ 1°1
M 1-79	093.3 − 02.4	93− 2°1
M 1-80	107.7 − 02.2	107− 2°1
M 2-2	147.8 + 04.1	147+ 4°1
M 2-4	349.8 + 04.4	349+ 4°1
M 2-5	351.2 + 05.2	351+ 5°1
M 2-6	353.3 + 06.3	353+ 6°2
M 2-7	353.7 + 06.3	353+ 6°1
M 2-8	352.1 + 05.1	352+ 5°1
M 2-9	010.8 + 18.0	10+18°2
M 2-10	354.2 + 04.3	354+ 4°1
M 2-11	356.9 + 04.5	356+ 4°1
M 2-12	359.8 + 05.6	359+ 5°1
M 2-13	011.1 + 11.5	11+11°1

Name	PN G	PK
M 2-14	003.6 + 03.1	3+ 3°2
M 2-15	011.0 + 06.2	11+ 6°1
M 2-16	357.4 − 03.2	357− 3°2
M 2-17	010.4 + 04.5	10+ 4°1
M 2-18	357.4 − 03.5	357− 3°4
M 2-19	000.2 − 01.9	0− 1°5
M 2-20	000.4 − 01.9	0− 1°6
M 2-21	000.7 − 02.7	0− 2°4
M 2-22	357.4 − 04.6	357− 4°2
M 2-23	002.2 − 02.7	2− 2°4
M 2-24	356.9 − 05.8	356− 5°2
M 2-25	359.0 − 04.8	359− 4°3
M 2-26	003.6 − 02.3	3− 2°2
M 2-27	359.9 − 04.5	359− 4°2
M 2-28	000.3 − 04.6	0− 4°1
M 2-29	004.0 − 03.0	4− 3°1
M 2-30	003.7 − 04.6	3− 4°8
M 2-31	006.0 − 03.6	6− 3°3
M 2-32	359.8 − 07.2	359− 7°1
M 2-33	002.0 − 06.2	2− 6°1
M 2-34	007.8 − 03.7	7− 3°1
M 2-35	000.7 − 07.4	0− 7°1
M 2-36	003.2 − 06.2	3− 6°1
M 2-37	004.2 − 05.9	4− 5°5
M 2-38	005.7 − 05.3	5− 5°1
M 2-39	008.1 − 04.7	8− 4°1
M 2-40	024.1 + 03.8	24+ 3°1
M 2-41	002.3 − 07.8	2− 7°1
M 2-42	008.2 − 04.8	8− 4°2
M 2-43	027.6 + 04.2	27+ 4°1
M 2-44	028.5 + 01.6	28+ 1°1
M 2-45	027.7 + 00.7	27+ 0°1
M 2-46	024.8 − 02.7	24− 2°1
M 2-47	039.5 − 02.7	39− 2°1
M 2-48	062.4 − 00.2	62− 0°1
M 2-49	095.1 − 02.0	95− 2°1
M 2-50	097.6 − 02.4	97− 2°1
M 2-51	103.2 + 00.6	103+ 0°1
M 2-52	103.7 + 00.4	103+ 0°2
M 2-53	104.4 − 01.6	104− 1°1
M 2-54	104.8 − 06.7	104− 6°1
M 2-55	116.2 + 08.5	116+ 8°1
M 3-1	242.6 − 11.6	242−11°1
M 3-2	240.3 − 07.6	240− 7°1
M 3-3	221.7 + 05.3	221+ 5°1
M 3-4	241.0 + 02.3	241+ 2°1
M 3-5	245.4 + 01.6	245+ 1°1
M 3-6	253.9 + 05.7	254+ 5°1
M 3-7	357.1 + 03.6	357+ 3°1
M 3-8	358.2 + 04.2	358+ 4°1
M 3-9	359.9 + 05.1	359+ 5°2
M 3-10	358.2 + 03.6	358+ 3°1
M 3-11	005.5 + 06.1	5+ 6°1

Name	PN G	PK
M 3-12	005.2 + 05.6	5+ 5°1
M 3-13	005.2 + 04.2	5+ 4°2
M 3-14	355.4 − 02.4	355− 2°1
M 3-15	006.8 + 04.1	6+ 4°2
M 3-16	359.1 − 02.3	359− 2°2
M 3-17	359.3 − 03.1	359− 3°1
M 3-19	000.4 − 02.9	0− 2°6
M 3-20	002.1 − 02.2	2− 2°2
M 3-21	355.1 − 06.9	355− 6°1
M 3-22	000.7 − 03.7	0− 3°1
M 3-23	000.9 − 04.8	0− 4°2
M 3-24	005.5 − 02.5	5− 2°1
M 3-25	019.7 + 03.2	19+ 3°1
M 3-26	004.8 − 05.0	4− 5°1
M 3-27	043.3 + 11.6	43+11°1
M 3-28	021.8 − 00.4	21− 0°1
M 3-29	004.0 − 11.1	4−11°1
M 3-30	017.9 − 04.8	17− 4°1
M 3-31	014.2 − 07.3	14− 7°1
M 3-32	009.4 − 09.8	9− 9°1
M 3-33	009.6 − 10.6	9−10°1
M 3-34	031.0 − 10.8	31−10°1
M 3-35	071.6 − 02.3	71− 2°1
M 3-36	358.6 + 07.8	358+ 7°1
M 3-37	359.8 + 06.9	359+ 6°1
M 3-38	356.9 + 04.4	356+ 4°2
M 3-39	358.5 + 05.4	358+ 5°1
M 3-40	358.7 + 05.2	358+ 5°2
M 3-41	357.3 + 03.3	357+ 3°2
M 3-42	357.5 + 03.2	357+ 3°4
M 3-43	000.1 − 01.1	0− 1°1
M 3-44	359.3 − 01.8	359− 1°2
M 3-45	359.7 − 01.8	359− 1°3
M 3-46	359.1 − 02.9	359− 2°4
M 3-47	000.3 − 02.8	0− 2°5
M 3-48	359.0 − 04.1	359− 4°1
M 3-49	356.3 − 06.2	356− 6°1
M 3-50	357.1 − 06.1	357− 6°1
M 3-51	358.6 − 05.5	358− 5°4
M 3-52	018.9 + 04.1	18+ 4°1
M 3-53	019.9 + 00.9	19+ 0°1
M 3-54	018.6 − 02.2	18− 2°1
M 3-55	021.7 − 00.6	21− 0°2
M 4-2	248.8 − 08.5	248− 8°1
M 4-3	357.2 + 07.4	357+ 7°1
M 4-4	357.0 + 02.4	357+ 2°5
M 4-6	358.6 + 01.8	358+ 1°1
M 4-7	358.5 − 02.5	358− 2°1
M 4-8	018.9 + 03.6	18+ 3°1
M 4-9	024.2 + 05.9	24+ 5°1
M 4-10	019.2 − 02.2	19− 2°1
M 4-11	024.2 − 05.2	24− 5°1
M 4-14	043.0 − 03.0	43− 3°1

Name	PN G	PK
M 4-17	079.6 + 05.8	79+ 5°1
M 4-18	146.7 + 07.6	146+ 7°1
MA 2	022.5 + 04.8	⋆ 22+ 4°1
MA 3	023.0 + 04.3	⋆ 23+ 4°1
MA 13	023.9 + 01.2	⋆ 23+ 1°1
MaC 1-2	309.5 − 02.9	
MaC 1-4	007.9 + 10.1	⋆ 7+10°1
MaC 1-10	005.9 − 02.6	⋆ 5− 2°2
MaC 1-11	008.6 − 02.6	⋆ 8− 2°1
MaC 1-13	022.5 + 01.0	⋆ 22+ 1°1
MaC 1-16	023.3 − 07.6	⋆ 23− 7°1
MaC 2-1	205.8 − 26.7	⋆205−26°1
Me 1-1	052.5 − 02.9	52− 2°2
Me 2-1	342.1 + 27.5	342+27°1
Me 2-2	100.0 − 08.7	100− 8°1
MeWe 1-1	272.4 − 05.9	
MeWe 1-3	308.2 + 07.7	
MeWe 1-5	321.0 + 08.3	
MeWe 1-6	334.3 − 01.4	
MeWe 1-7	335.9 − 03.6	
MeWe 1-8	335.6 − 04.0	
MeWe 1-9	337.6 − 04.2	
MeWe 1-10	336.9 − 11.5	
MeWe 1-11	345.3 − 10.2	
MGP 1	348.0 + 06.3	
My 60	283.8 + 02.2	283+ 2°1
MyCn 18	307.5 − 04.9	307− 4°1
Mz 1	322.4 − 02.6	322− 2°1
Mz 2	329.3 − 02.8	329− 2°2
Mz 3	331.7 − 01.0	331− 1°1
Na 1	018.0 + 20.1	18+20°1
Na 2	025.9 − 10.9	26−11°1
NGC 40	120.0 + 09.8	120+ 9°1
NGC 246	118.8 − 74.7	118−74°1
NGC 650-51	130.9 − 10.5	130−10°1
NGC 1360	220.3 − 53.9	220−53°1
NGC 1501	144.5 + 06.5	144+ 6°1
NGC 1514	165.5 − 15.2	165−15°1
NGC 1535	206.4 − 40.5	206−40°1
NGC 2022	196.6 − 10.9	196−10°1
NGC 2242	170.3 + 15.8	
NGC 2346	215.6 + 03.6	215+ 3°1
NGC 2371-72	189.1 + 19.8	189+19°1
NGC 2392	197.8 + 17.3	197+17°1
NGC 2438	231.8 + 04.1	231+ 4°2
NGC 2440	234.8 + 02.4	234+ 2°1
NGC 2452	243.3 − 01.0	243− 1°1
NGC 2610	239.6 + 13.9	239+13°1
NGC 2792	265.7 + 04.1	265+ 4°1
NGC 2818	261.9 + 08.5	261+ 8°1
NGC 2867	278.1 − 05.9	278− 5°1
NGC 2899	277.1 − 03.8	277− 3°1
NGC 3132	272.1 + 12.3	272+12°1

Name	PN G	PK
NGC 3195	296.6 − 20.0	296−20°1
NGC 3211	286.3 − 04.8	286− 4°1
NGC 3242	261.0 + 32.0	261+32°1
NGC 3587	148.4 + 57.0	148+57°1
NGC 3699	292.6 + 01.2	292+ 1°1
NGC 3918	294.6 + 04.7	294+ 4°1
NGC 4071	298.3 − 04.8	298− 4°1
NGC 4361	294.1 + 43.6	294+43°1
NGC 5189	307.2 − 03.4	307− 3°1
NGC 5307	312.3 + 10.5	312+10°1
NGC 5315	309.1 − 04.3	309− 4°2
NGC 5873	331.3 + 16.8	331+16°1
NGC 5882	327.8 + 10.0	327+10°1
NGC 5979	322.5 − 05.2	322− 5°1
NGC 6026	341.6 + 13.7	341+13°1
NGC 6058	064.6 + 48.2	64+48°1
NGC 6072	342.1 + 10.8	342+10°1
NGC 6153	341.8 + 05.4	341+ 5°1
NGC 6210	043.1 + 37.7	43+37°1
NGC 6302	349.5 + 01.0	349+ 1°1
NGC 6309	009.6 + 14.8	9+14°1
NGC 6326	338.1 − 08.3	338− 8°1
NGC 6337	349.3 − 01.1	349− 1°1
NGC 6369	002.4 + 05.8	2+ 5°1
NGC 6439	011.0 + 05.8	11+ 5°1
NGC 6445	008.0 + 03.9	8+ 3°1
NGC 6537	010.1 + 00.7	10+ 0°1
NGC 6543	096.4 + 29.9	96+29°1
NGC 6563	358.5 − 07.3	358− 7°1
NGC 6565	003.5 − 04.6	3− 4°5
NGC 6567	011.7 − 00.6	11− 0°2
NGC 6572	034.6 + 11.8	34+11°1
NGC 6578	010.8 − 01.8	10− 1°1
NGC 6620	005.8 − 06.1	5− 6°1
NGC 6629	009.4 − 05.0	9− 5°1
NGC 6644	008.3 − 07.3	8− 7°2
NGC 6720	063.1 + 13.9	63+13°1
NGC 6741	033.8 − 02.6	33− 2°1
NGC 6751	029.2 − 05.9	29− 5°1
NGC 6765	062.4 + 09.5	62+ 9°1
NGC 6772	033.1 − 06.3	33− 6°1
NGC 6778	034.5 − 06.7	34− 6°1
NGC 6781	041.8 − 02.9	41− 2°1
NGC 6790	037.8 − 06.3	37− 6°1
NGC 6803	046.4 − 04.1	46− 4°1
NGC 6804	045.7 − 04.5	45− 4°1
NGC 6807	042.9 − 06.9	42− 6°1
NGC 6818	025.8 − 17.9	25−17°1
NGC 6826	083.5 + 12.7	83+12°1
NGC 6833	082.5 + 11.3	82+11°1
NGC 6842	065.9 + 00.5	65+ 0°1
NGC 6852	042.5 − 14.5	42−14°1
NGC 6853	060.8 − 03.6	60− 3°1

Name	PN G	PK
NGC 6879	057.2 − 08.9	57− 8°1
NGC 6881	074.5 + 02.1	74+ 2°1
NGC 6884	082.1 + 07.0	82+ 7°1
NGC 6886	060.1 − 07.7	60− 7°2
NGC 6891	054.1 − 12.1	54−12°1
NGC 6894	069.4 − 02.6	69− 2°1
NGC 6905	061.4 − 09.5	61− 9°1
NGC 7008	093.4 + 05.4	93+ 5°2
NGC 7009	037.7 − 34.5	37−34°1
NGC 7026	089.0 + 00.3	89+ 0°1
NGC 7027	084.9 − 03.4	84− 3°1
NGC 7048	088.7 − 01.6	88− 1°1
NGC 7094	066.7 − 28.2	66−28°1
NGC 7139	104.1 + 07.9	104+ 7°1
NGC 7293	036.1 − 57.1	36−57°1
NGC 7354	107.8 + 02.3	107+ 2°1
NGC 7662	106.5 − 17.6	106−17°1
Ns 238	254.6 + 00.2	⋆254+ 0°1
PB 1	226.4 − 03.7	226− 3°1
PB 2	263.0 − 05.5	263− 5°1
PB 3	269.7 − 03.6	269− 3°1
PB 4	275.0 − 04.1	275− 4°1
PB 5	268.4 + 02.4	268+ 2°1
PB 6	278.8 + 04.9	278+ 5°1
PB 8	292.4 + 04.1	292+ 4°1
PB 9	046.3 − 03.1	46− 3°1
PB 10	048.0 − 02.3	48− 2°1
PBOZ 24	002.1 + 03.3	
PBOZ 34	005.4 − 01.9	
PC 11	331.1 − 05.7	331− 5°1
PC 12	000.1 + 17.2	0+17°1
PC 13	351.9 + 09.0	351+ 9°1
PC 14	336.2 − 06.9	336− 6°1
PC 17	343.5 − 07.8	343− 7°1
PC 19	032.1 + 07.0	32+ 7°2
PC 20	031.7 + 01.7	31+ 1°1
PC 21	013.8 − 07.9	13− 7°1
PC 22	051.0 − 04.5	51− 4°1
PC 23	068.7 + 03.0	68+ 3°1
PC 24	066.9 − 05.2	66− 5°1
Pe 1-1	285.4 + 01.5	285+ 1°1
Pe 1-2	285.7 + 01.2	285+ 1°2
Pe 1-3	288.4 − 02.4	288− 2°1
Pe 1-6	336.2 + 01.9	336+ 1°1
Pe 1-7	337.4 + 01.6	337+ 1°1
Pe 1-8	342.9 − 02.0	342− 2°1
Pe 1-9	005.0 + 03.0	5+ 3°1
Pe 1-11	358.0 − 05.1	358− 5°1
Pe 1-12	004.0 − 05.8	4− 5°3
Pe 1-13	010.7 − 06.7	10− 6°2
Pe 1-14	025.9 − 00.9	25− 0°1
Pe 1-15	025.9 − 02.1	25− 2°1
Pe 1-16	026.3 − 02.2	26− 2°1

Name	PN G	PK
Pe 1-17	024.3 − 03.3	24− 3°1
Pe 1-18	027.3 − 02.1	27− 2°1
Pe 1-19	026.5 − 03.0	26− 2°3
Pe 1-20	028.2 − 04.0	28− 4°1
Pe 1-21	028.7 − 03.9	28− 3°1
Pe 2-4	275.5 − 01.3	275− 1°1
Pe 2-5	285.4 − 01.1	285− 1°1
Pe 2-7	285.4 + 02.2	285+ 2°1
Pe 2-8	322.4 − 00.1	322− 0°1
Pe 2-10	006.8 + 02.0	6+ 2°4
Pe 2-11	002.5 − 01.7	2− 1°1
Pe 2-12	002.8 − 02.2	2− 2°3
Pe 2-13	006.4 − 04.6	6− 4°1
Pe 2-14	013.0 − 04.3	13− 4°1
Pe 2-15	026.0 − 01.8	26− 1°2
PHL 932	125.9 − 47.0	⋆125−47°1
PM 1-89	324.0 + 03.5	
PM 1-149	002.9 + 06.5	
PM 1-188	012.2 + 04.9	
PM 1-276	043.3 + 02.2	
PM 1-295	051.3 + 01.8	
PM 1-310	060.4 + 01.5	
PM 1-339	110.1 + 01.9	
PP 40	173.7 + 02.7	⋆173+ 2°1
PRMG 1	006.0 − 41.9	
PRTM 1	243.8 − 37.1	
Ps 1	065.0 − 27.3	65−27°1
Pu 1	181.5 + 00.9	⋆181+ 1°1
Pu 2	173.5 + 03.2	
PuWe 1	158.9 + 17.8	⋆158+17°1
Sa 1-5	340.9 − 04.6	⋆340− 4°1
Sa 1-6	340.4 − 14.1	⋆340−14°1
Sa 1-8	020.7 − 05.9	⋆ 20− 5°1
Sa 2-21	238.9 + 07.3	⋆238+ 7°2
Sa 2-230	010.7 + 07.4	⋆ 10+ 7°1
Sa 2-237	011.1 + 07.0	⋆ 11+ 7°1
Sa 3-92	001.1 − 01.6	⋆ 1− 1°4
Sa 3-104	001.0 − 02.6	⋆ 1− 2°2
Sa 3-111	014.2 + 04.2	⋆ 14+ 4°1
Sa 3-134	016.9 − 02.0	⋆ 16− 2°1
Sa 3-151	033.2 − 01.9	⋆ 33− 1°1
Sa 4-1	075.7 + 35.8	⋆ 75+35°1
SaSt 1-1	249.0 + 06.9	⋆249+ 6°1
SaSt 2-3	232.0 + 05.7	⋆232+ 5°1
SaSt 2-12	334.8 − 07.4	⋆334− 7°1
SaSt 3-166	014.9 − 03.1	
SaWe 1	233.0 − 10.1	
SaWe 2	358.8 + 04.1	
SaWe 3	013.8 − 02.8	
SaWe 4	014.7 − 11.8	
Sd 1	078.9 + 00.7	⋆ 78+ 0°1
Sh 1-89	089.8 − 00.6	89− 0°1
Sh 2-68	030.6 + 06.2	⋆ 30+ 6°1

Name	PN G	PK
Sh 2-71	035.9 − 01.1	36− 1°1
Sh 2-176	120.2 − 05.3	⋆120− 5°1
ShWi 2-1	001.4 − 03.4	⋆358− 3°4
ShWi 2-5	001.2 − 03.9	⋆358− 3°8
ShWi 2-7	001.8 − 03.8	⋆358−3°10
Simeiz 22	128.0 − 04.1	⋆128− 4°1
Sn 1	013.3 + 32.7	13+32°1
Sp 1	329.0 + 01.9	329+ 2°1
Sp 3	342.5 − 14.3	342−14°1
Sp 4-1	068.7 + 14.8	⋆ 68+14°1
St 3-1	217.4 + 02.0	⋆217+ 2°1
Ste 2-1	280.0 + 02.9	⋆280+ 2°1
StWr 2-21	005.2 − 18.6	⋆ 5−18°1
StWr 4-10	336.9 + 08.3	⋆336+ 8°1
SuWt 2	311.0 + 02.4	
SuWt 3	343.6 + 03.7	⋆343+ 3°1
SwSt 1	001.5 − 06.7	1− 6°2
Tc 1	345.2 − 08.8	345− 8°1
TDC 1	029.2 − 00.0	
Te 5	002.3 + 02.2	
Te 1567	002.8 + 01.8	
Te 1580	002.6 + 02.1	
Te 2022	358.8 − 00.0	
Te 2111	003.9 + 01.6	
Te 2337	002.2 + 00.5	
TeJu 8	358.0 + 07.5	
TeJu 18	357.1 + 04.4	
TeJu 19	359.8 + 05.2	
Th 2-A	306.4 − 00.6	306− 0°1
Th 3-1	358.0 + 09.3	358+ 9°1
Th 3-3	356.5 + 05.1	356+ 5°1
Th 3-4	354.5 + 03.3	354+ 3°1
Th 3-6	354.9 + 03.5	355+ 3°3
Th 3-10	355.9 + 02.7	355+ 2°2
Th 3-11	355.1 + 02.3	355+ 2°3
Th 3-12	356.8 + 03.3	356+ 3°1
Th 3-13	356.1 + 02.7	356+ 2°1
Th 3-14	359.2 + 04.7	359+ 4°1
Th 3-15	358.8 + 04.0	358+ 4°2
Th 3-16	357.5 + 03.1	357+ 3°5
Th 3-19	358.4 + 03.3	358+ 3°3
Th 3-23	358.0 + 02.6	358+ 2°2
Th 3-24	357.1 + 01.9	357+ 2°7
Th 3-25	359.8 + 03.7	359+ 3°2
Th 3-26	358.8 + 03.0	358+ 3°8
Th 3-27	002.6 + 04.2	2+ 4°1
Th 3-32	359.4 + 02.3	359+ 2°4
Th 3-33	359.8 + 02.4	359+ 2°3
Th 3-35	359.3 + 01.4	359+ 1°1
Th 3-55	356.5 + 01.5	356+ 1°2
Th 4-1	007.5 + 04.3	7+ 4°1
Th 4-2	008.8 + 05.2	8+ 5°1
Th 4-3	006.0 + 02.8	6+ 2°1

Name	PN G	PK
Th 4-5	009.0 + 04.1	9+ 4°1
Th 4-6	009.3 + 04.1	9+ 4°2
Th 4-7	006.8 + 02.3	6+ 2°3
Th 4-9	009.3 + 02.8	9+ 2°1
Th 4-10	010.6 + 03.2	10+ 3°1
Th 4-11	011.3 + 02.8	11+ 2°1
TrBr 4	357.6 + 01.0	⋆357+ 1°3
Trz 41	000.3 + 06.9	
V-V 3-5	014.0 − 05.5	⋆ 14− 5°1
V-V 3-6	014.3 − 05.5	⋆ 14− 5°2
VBe 3	326.1 − 01.9	⋆326− 1°2
VBRC 1	257.5 + 00.6	⋆257+ 0°1
VBRC 5	309.2 + 01.3	⋆309+ 1°1
VBRC 6	317.8 + 03.3	⋆317+ 3°1
VBRC 7	329.5 + 01.7	⋆329+ 1°1
Vd 1-1	344.2 + 04.7	344+ 4°1
Vd 1-2	345.0 + 04.3	345+ 4°1
Vd 1-3	344.8 + 03.4	344+ 3°1
Vd 1-4	345.0 + 03.4	345+ 3°1
Vd 1-5	344.4 + 02.8	344+ 2°1
Vd 1-6	345.9 + 03.0	345+ 3°2
Vd 1-8	347.7 + 02.0	347+ 1°1
Vd 1-9	343.0 − 01.7	343− 1°1
Ve 26	265.1 − 02.2	265− 2°1
Vo 1	291.3 − 26.2	
Vo 2	257.1 − 02.6	
Vo 3	260.7 + 00.9	
Vo 4	310.4 + 01.3	
Vy 1-1	118.0 − 08.6	118− 8°1
Vy 1-2	053.3 + 24.0	53+24°1
Vy 1-4	027.4 − 03.5	27− 3°2
VY 2-1	007.0 − 06.8	7− 6°2
Vy 2-2	045.4 − 02.7	45− 2°1
Vy 2-3	107.6 − 13.3	107−13°1
We 1-1	121.6 + 03.5	⋆121+ 3°1
We 1-2	160.5 − 00.5	⋆160− 0°1
We 1-3	163.1 − 00.8	⋆163− 0°1
We 1-4	201.9 − 04.6	⋆201− 4°1
We 1-5	216.3 − 04.4	⋆216− 4°1
We 1-6	224.9 + 01.0	⋆224+ 1°1
We 1-7	021.2 − 03.9	⋆ 21− 3°1
We 1-9	065.1 − 03.5	⋆ 65− 3°1
We 1-10	086.1 + 05.4	⋆ 86+ 5°1
We 1-11	091.6 + 01.8	⋆ 91+ 1°1
We 2-5	129.2 − 02.0	⋆129− 2°1
We 2-34	210.0 + 03.9	⋆210+ 3°1
We 2-245	087.4 − 03.8	⋆ 87− 3°1
We 3-1	044.3 + 10.4	⋆ 44+10°1
WeDe 1	197.4 − 06.4	⋆197− 6°1
WeSb 1	124.3 − 07.7	⋆124− 7°1
WeSb 2	183.8 + 05.5	⋆183+ 5°1
WeSb 3	028.0 + 10.2	⋆ 28+10°1
WeSb 4	031.9 − 00.3	⋆ 31− 0°1
WeSb 5	058.6 − 05.5	⋆ 58− 5°1
WhMe 1	051.0 + 02.8	⋆ 51+ 2°1
Wray 16-20	260.7 − 03.3	
Wray 16-22	255.7 + 03.3	⋆255+ 3°1
Wray 16-93	292.7 + 01.9	
Wray 16-120	302.2 + 02.5	⋆302+ 2°1
Wray 16-121	302.6 − 00.9	⋆302− 0°2
Wray 16-122	304.2 + 05.9	⋆304+ 5°2
Wray 16-128	307.3 + 05.0	⋆307+ 5°1
Wray 16-189	330.9 + 04.3	⋆330+ 4°2
Wray 16-199	332.2 + 03.5	⋆332+ 3°1
Wray 16-266	337.4 − 09.1	⋆337− 9°1
Wray 16-278	344.4 − 06.1	⋆344− 6°1
Wray 16-286	351.9 − 01.9	⋆351− 1°1
Wray 16-363	000.2 − 04.6	⋆ 0− 4°3
Wray 16-385	351.7 − 10.9	⋆351−10°1
Wray 16-411	353.7 − 12.8	
Wray 16-423	006.8 − 19.8	⋆ 6−19°1
Wray 17-1	258.0 − 15.7	⋆258−15°1
Wray 17-18	262.6 − 04.6	⋆262− 4°1
Wray 17-20	264.4 − 03.6	
Wray 17-31	277.7 − 03.5	⋆277− 3°2
Wray 17-40	286.2 − 06.9	
Wray 17-59	305.7 − 03.4	⋆305− 3°1
Wray 17-75	329.5 − 02.2	
Wray 17-107	002.4 − 03.2	⋆ 2− 3°7
Y-C 2-5	240.3 + 07.0	⋆240+ 7°1
Y-C 2-32	013.7 − 10.6	⋆ 13−10°1
YM 16	038.7 + 01.9	38+ 2°1
19W32	359.2 + 01.2	⋆359+ 1°3

Usual Name	α_{2000} δ_{2000}	ℓ b	Cl	*Other Names*
A 9	05 29.0+36 02	172.12 + 00.85	U	PK 172+0°1, A55 8, ARO 122, VV' 31
A 64	19 45.6+05 34	044.19 − 09.39	?	PK 44−9°1, A55 52, ARO 163, VV' 512
Al 2-N	17 49.6−27 41	001.53 − 00.10	U	
Anon. 16h38m	16 41.6−27 59	352.56 + 11.99		PK 352+11°1, ESO 452-12
Anon. 19h19m	19 22.0−04 12	032.66 − 08.71		PK 32−8°1, ARO 318
Bl 3-14	17 52.4−29 46	000.05 − 01.70	* ?	PK 0−1°4, ESO 455-55
CoMaC 1	05 03.5+41 42	164.63 + 00.10		VES 866
CoMaC 3	20 03.2+31 55	069.07 + 00.48		VES 905
CRL 2688	21 02.3+36 42	080.17 − 06.50	**	(PK)80−6°1
CW Leo	09 48.0+13 17	221.45 + 45.06	**	(PK)221+45°1, IRC +10216
EGB 2	01 58.0+10 58	148.10 − 48.63	?	(PK)148−49°1, GRO 155+10
EGB 3	04 25.2+72 49	137.24 + 16.20		(PK)137+16°1, ELO 419+72
EGB 7	16 47.6+64 13	094.86 + 37.57		(PK)95+38°1, EL 1647+64
ESO 011-01	20 35.5−83 03	310.15 − 30.00		
ESO 209-05	07 51.3−52 19	265.68 − 12.73		
ESO 209-07	07 52.5−52 18	265.74 − 12.56		
ESO 209-10	08 00.1−50 40	264.88 − 10.72		
ESO 209-13	08 03.0−49 37	264.19 − 09.80		
ESO 252-09	05 05.9−42 48	247.69 − 36.86		
ESO 257-18	07 29.3−45 26	257.71 − 12.83		
ESO 309-20	07 08.0−40 21	251.27 − 14.26		
ESO 310-11	07 19.3−40 00	251.87 − 12.16		
ESO 312-06	08 28.9−40 21	258.95 − 00.88		
ESO 313-16	08 52.5−38 54	260.59 + 03.59		
ESO 328-01	15 00.6−40 49	327.77 + 15.75		
ESO 328-27	15 09.7−40 56	329.24 + 14.78		
ESO 340-34	20 28.4−38 31	003.18 − 34.73		
ESO 341-10	20 44.5−40 57	000.65 − 38.11		
ESO 367-01	07 05.7−33 19	244.50 − 11.78		
ESO 371-02	08 39.5−35 00	255.92 + 03.99		
ESO 371-09	08 43.3−37 39	258.48 + 02.97		
ESO 380-12	12 19.1−37 08	295.82 + 25.29		
ESO 382-29	13 17.0−35 24	308.78 + 27.18		
ESO 389-13	16 06.4−34 31	342.41 + 13.01		
ESO 449-02	15 14.1−32 42	334.69 + 21.24		
ESO 450-26	15 57.1−32 28	342.36 + 15.84		
ESO 513-05	14 55.4−24 05	336.06 + 30.71		
ESO 515-11	15 50.5−23 34	347.61 + 23.38		
ESO 515-16	15 54.0−24 55	347.25 + 21.86		
ESO 515-17	15 57.9−25 55	347.19 + 20.53		
ESO 525-06	19 27.0−26 42	012.03 − 19.14		
ESO 580-02	14 34.8−22 26	332.20 + 34.49		
GM 1-11	06 23.7+33 49	179.66 + 09.47		PP 94
HaTr 7	17 54.2−60 50	332.51 − 16.91	U	(PK)332−16°2
HaTr 12	19 03.8+05 10	038.93 − 00.38		(PK)38−0°1
HaWe 3	03 16.6+46 54	147.11 − 09.05		
HDW 4	05 37.9+55 32	156.31 + 12.54	?	(PK)156+12°1, HaWe 6
HDW 10	19 05.7−25 24	011.38 − 14.21	* ?	(PK)11−14°1, ESO 524-06, HaWe 12
HDW 13	22 30.6+47 31	099.72 − 08.90		(PK)99−8°1, HaWe 15
He 2-106	14 14.2−63 26	312.03 − 02.03		PK 312−2°1, ESO 097-14, Wray 16-148
He 2-375	18 18.2−57 11	337.31 − 18.27	U	PK 337−18°1, My 118, Sa 2-323, StWr 2-45, Wray 16-400

Usual Name	α_{2000} δ_{2000}	ℓ b	Cl	*Other Names*
He 3-1191	16 27.3−48 39	335.21 + 00.21		IRAS 16235-4832, Wray 15-1484
He 3-1379	17 19.8−39 11	348.51 − 01.12		IRAS 17163-3907, Wray 15-1676
HM Sge	19 42.0+16 45	053.57 − 03.15	**	
HuLo 1	19 05.9−05 59	029.23 − 05.94		
IC 2120	05 18.2+37 34	169.65 − 00.07		PK 169−0°1, ARO 77, M 2-3, VV 21, VV' 30
IRAS 17245-3951	17 28.1−39 54	348.81 − 02.84		
IRAS 17391-3026	17 42.3−30 28	358.32 − 00.20		RPZM 49
IRAS 17516-2525	17 54.7−25 25	004.05 + 00.07		
IRAS 18095+2704	18 11.5+27 05	053.84 + 20.18		HKV 1
IRAS 21282+5050	21 29.9+51 03	093.97 − 00.12	?	
JoDi 1	00 25.4+64 09	120.09 + 01.42		
K 1-6	20 04.5+74 27	107.06 + 21.38	H	PK 107+21°1
K 1-24	14 38.3−44 13	322.37 + 14.59		(PK)322+14°1, V-V 3-3
K 2-4	12 18.3+11 03	275.49 + 72.14	U	PK 275+72°1, ARO 35
K 2-8	17 06.9−09 47	011.40 + 17.98	U	PK 10+18°1
K 2-12	06 02.1−37 25	243.79 − 25.34	U	(PK)243−25°1, ESO 364-25
K 3-86	22 54.8+54 56	106.63 − 04.20		(PK)106−4°1
K 4-17	19 09.4−01 09	033.96 − 04.52		PK 33−4°1
K 4-30	19 33.2+22 59	057.99 + 01.70	?	PK 57+1°1
K 4-50	06 47.1+04 37	208.32 + 01.14	H	(PK)208+1°1
Kj 1-2	20 00.9+33 16	069.97 + 01.60		(PK)69+1°1, Sh 2-99
Kj 2-1	20 17.4+39 45	077.21 + 02.35		(PK)77+2°1
KjPn 4	20 28.8+40 25	079.00 + 00.93	H	(PK)79+0°1
KjPn 7	23 07.7+66 59	113.03 + 06.13		(PK)113+6°1
Kr 1-2	20 35.6+51 33	088.71 + 06.56	H	PK 88+6°1, ARO 354
Lo 14	16 11.7−51 18	331.59 + 00.07		(PK)331+0°2
M 2-56	23 56.6+70 48	118.41 + 08.41	H	PK 118+8°1, ARO 386, VV 288, VV' 583
MaC 1-12	18 21.4−08 32	021.91 + 02.73	U	(PK)21+2°1, PM 1-226
MaC 1-15	18 57.2−15 29	019.70 − 08.25	U	(PK)19−8°1
MaC 2-2	05 29.0−00 41	203.83 − 18.59		(PK)203−18°1
MaC 2-3	05 38.3+00 14	204.14 − 16.10		(PK)204−16°1
MaCCo 1	20 22.1+40 27	078.29 + 01.99		VES 205
MaCCo 2	20 35.3+36 12	076.35 − 02.58		VES 228
MeWe 1-2	10 14.4−58 12	283.44 − 01.40		
MeWe 1-4	14 17.5−52 26	315.99 + 08.24		
MeWe 2-1	08 20.9−35 17	253.90 + 00.75		Wray 19-07
MeWe 2-2	09 58.2−50 40	277.11 + 03.32		
MeWe 2-3	11 56.7−34 26	290.27 + 27.09		ESO 379-13
MeWe 2-4	14 01.3−50 40	314.09 + 10.68		
MeWe 2-5	16 34.8−42 04	340.94 + 03.75		
MyCn 26	16 55.9−29 52	353.06 + 08.39		PK 353+8°1, ESO 453-10, He 2-192, Sa 2-166, VV 88, VV' 154
NeVe 1	17 12.4−23 23	000.57 + 09.27		GN 17.09.4
NeVe 2	20 00.3+36 59	073.07 + 03.66		GN 19.58.5.03
NeVe 3	02 19.8+55 18	135.35 − 05.43		
NeVe 4	03 48.7+55 54	146.00 + 01.18		
NeVe 5	04 49.3+56 42	151.42 + 07.63		
NeVe 6	06 01.9+26 25	184.00 + 01.84		
NeVe 7	06 33.5+12 38	199.66 + 01.82		
NeVe 8	06 42.0+37 08	178.20 + 14.24		
OH/IR 17.7-2.0	18 30.5−14 29	017.68 − 02.03		
PBOZ 2	17 23.9−28 59	357.40 + 03.97		PM 1-144, IRAS 17207-2856

Usual Name	α_{2000} δ_{2000}	ℓ b	Cl	*Other Names*
PBOZ 3	17 25.0−30 43	356.08 + 02.81		IRAS 17217-3040
PBOZ 5	17 27.6−25 22	000.86 + 05.28		IRAS 17245-2519
PBOZ 7	17 40.1−30 19	358.19 + 00.30		IRAS 17368-3017
PBOZ 8	17 40.6−30 16	358.29 + 00.24		IRAS 17374-3013
PBOZ 9	17 43.4−30 54	358.07 − 00.61		IRAS 17401-3052
PBOZ 10	17 44.5−27 21	001.23 + 01.04		IRAS 17413-2719
PBOZ 11	17 44.5−24 13	003.90 + 02.66		IRAS 17414-2412
PBOZ 12	17 45.7−29 43	359.34 − 00.42		IRAS 17424-2941
PBOZ 13	17 46.0−27 26	001.33 + 00.71		IRAS 17428-2724
PBOZ 14	17 46.7−27 03	001.73 + 00.77		IRAS 17436-2702
PBOZ 15	17 47.2−30 22	358.95 − 01.04		IRAS 17440-3021
PBOZ 16	17 47.5−24 13	004.26 + 02.08		IRAS 17445-2412
PBOZ 17	17 18.1−30 56	355.06 + 03.90		IRAS 17149-3053
PBOZ 18	17 26.4−30 46	356.22 + 02.53		IRAS 17230-3042
PBOZ 19	17 44.3−27 58	000.68 + 00.75		IRAS 17403-2755
PBOZ 20	17 43.6−27 58	000.60 + 00.88		IRAS 17412-2757
PBOZ 21	17 35.0−25 24	001.76 + 03.87		RPZM 2-24, IRAS 17319-2521
PBOZ 22	17 35.0−20 46	005.68 + 06.37		IRAS 17320-2043
PBOZ 23	17 36.3−24 52	002.36 + 03.90		IRAS 17332-2451
PBOZ 26	17 40.6−28 01	000.21 + 01.41		IRAS 17375-2759
PBOZ 27	17 40.7−27 44	000.46 + 01.56		IRAS 17375-2742
PBOZ 28	17 47.0−23 21	004.94 + 02.63		IRAS 17440-2321
PBOZ 29	17 47.8−21 32	006.59 + 03.41		IRAS 17448-2131
PBOZ 30	17 50.6−27 38	001.68 − 00.27		IRAS 17474-2738
PBOZ 32	17 58.2−27 42	002.47 − 01.75		IRAS 17550-2741
PBOZ 33	18 04.6−20 37	009.35 + 00.47		IRAS 18016-2037
PBZ 1	17 18.5−37 58	349.35 − 00.21		IRAS 17150-3754
PGK 248-5	07 42.4−32 48	247.58 − 04.70	U	(PK)247−4°1
PM 1-115	16 51.1−32 23	350.43 + 07.62		RPZM 2-2, IRAS 16478-3217
PM 1-130	17 11.7−30 29	354.63 + 05.28	LE	RPZM 2-4, IRAS 17084-3025
PM 1-133	17 13.6−33 42	352.25 + 03.06		RPZM 2-6, IRAS 17103-3338
PM 1-135	17 15.8−39 33	347.76 − 00.70		RPZM 2-8, IRAS 17123-3929
PM 1-136	17 16.4−33 33	352.71 + 02.67		RPZM 2-10, IRAS 17131-3330
PM 1-140	17 19.7−32 30	353.97 + 02.73		RPZM 2-12, IRAS 17164-3226
PM 1-143	17 22.7−31 40	355.02 + 02.67		RPZM 2-13, IRAS 17194-3137
PM 1-147	17 26.9−40 11	348.45 − 02.82		RPZM 2-16, IRAS 17234-4008
PM 1-151	17 29.9−26 11	000.46 + 04.42	PN	RPZM 2-20, IRAS 17267-2608
PM 1-156	17 33.4−35 11	353.33 − 01.13		RPZM 2-23, IRAS 17300-3509
PM 1-165	17 38.2−27 20	000.49 + 02.24		RPZM 2-29, IRAS 17350-2718
PM 1-171	17 41.5−33 10	355.93 − 01.47		RPZM 2-33, IRAS 17381-3308
PM 1-186	17 53.0−25 27	003.83 + 00.39		PBOZ 31, IRAS 17498-2526
Re 1	01 11.1+10 22	130.84 − 52.21		
RPZM 2-3	17 11.4−39 30	347.31 + 00.01		IRAS 17079-3926
RPZM 2-5	17 12.6−35 43	350.49 + 02.06		IRAS 17092-3539
RPZM 2-7	17 14.8−35 36	350.86 + 01.76		IRAS 17114-3532
RPZM 2-9	17 15.8−35 11	351.32 + 01.83		IRAS 17125-3507
RPZM 2-11	17 18.7−38 17	349.12 − 00.44		IRAS 17153-3814
RPZM 2-14	17 24.3−39 02	349.13 − 01.76		IRAS 17208-3859
RPZM 2-15	17 24.7−40 52	347.64 − 02.84	LE	IRAS 17211-4049
RPZM 2-17	17 26.9−34 03	353.54 + 00.60		IRAS 17235-3400
RPZM 2-18	17 27.0−34 02	353.58 + 00.59		IRAS 17237-3359
RPZM 2-19	17 28.3−37 05	351.18 − 01.33		IRAS 17249-3703

Table 2: Possible Planetary Nebulae

Usual Name	α_{2000} δ_{2000}	ℓ b	Cl	*Other Names*
RPZM 2-21	17 30.2−26 21	000.36 + 04.27	LE	IRAS 17270-2618
RPZM 2-25	17 35.6−28 07	359.52 + 02.30		IRAS 17324-2805
RPZM 2-26	17 36.4−32 53	355.61 − 00.40		IRAS 17330-3250
RPZM 2-27	17 36.4−34 44	354.05 − 01.40		IRAS 17330-3441
RPZM 2-28	17 38.0−31 41	356.80 − 00.06		IRAS 17347-3139
RPZM 2-30	17 40.5−33 30	355.54 − 01.47	PN	IRAS 17372-3328
RPZM 2-31	17 40.8−35 44	353.67 − 02.69	PN	IRAS 17373-3542
RPZM 2-32	17 40.7−30 02	358.51 + 00.33		IRAS 17375-3000
RPZM 2-34	17 42.8−36 13	353.47 − 03.30	PN	IRAS 17393-3612
RPZM 2-35	17 43.3−31 46	357.33 − 01.05		IRAS 17400-3144
RPZM 2-36	17 45.2−32 46	356.68 − 01.92		IRAS 17419-3245
RPZM 2-37	17 45.2−33 36	355.97 − 02.35		IRAS 17418-3335
RPZM 2-38	17 47.0−31 46	357.75 − 01.73		IRAS 17437-3144
RPZM 2-39	17 47.6−29 51	359.44 − 00.84		IRAS 17443-2949
RPZM 2-40	17 49.3−31 15	358.42 − 01.88	H2	IRAS 17460-3114
RPZM 2-41	17 49.4−31 47	358.00 − 02.18		IRAS 17461-3145
RPZM 2-42	17 49.9−30 33	359.10 − 01.63		IRAS 17466-3031
RPZM 2-43	17 51.8−30 03	359.75 − 01.73		IRAS 17486-3001
RPZM 2-44	18 01.2−31 22	359.61 − 04.14	PPN	IRAS 17579-3121
RPZM 2-45	18 01.3−31 11	359.78 − 04.07		IRAS 17580-3111
RPZM 2-46	17 16.7−27 52	357.41 + 05.92		IRAS 17135-2748
RPZM 2-47	17 41.7−26 15	001.83 + 02.15		IRAS 17385-2613
RPZM 2-48	17 45.5−29 45	359.30 − 00.41		IRAS 17423-2943
RWT 152	07 29.9−02 06	219.24 + 07.58	* ?	(PK)219+7°1
Sa 1-4	16 15.4−53 52	330.22 − 02.16		(PK)330−2°2, Sa 2-138, ESO 178-16, Wray 15-1441
Sa 2-4	07 06.7−11 46	225.13 − 02.00	U	(PK)225−2°1
Sa 2-18	07 53.0−36 44	252.09 − 04.79		(PK)252−4°1, ESO 369-02
Sa 2-202	17 29.2−42 32	346.72 − 04.47	H2?	(PK)346−4°1
Sa 3-43	17 17.9−30 02	355.79 + 04.45	U	(PK)355+4°1
Sa 3-96	17 55.8−15 03	013.16 + 05.07	H	(PK)13+5°1
Sh 1-118	00 07.6+64 58	118.32 + 02.48	H2?	PK 118+2°1, ARO 197, VV' 1
Sh 2-216	04 45.0+46 49	158.58 + 00.76	U	(PK)158+0°1, Simeiz 288, YM 22
ShWi 2-2	18 03.1−29 46	001.20 − 03.70		(PK)358−3°5
ShWi 2-4	18 03.6−29 46	001.27 − 03.81		(PK)358−3°7
ShWi 2-6	18 04.0−29 27	001.58 − 03.72		(PK)358−3°9
SMC 1	04 25.5−66 47	278.91 − 38.87		
Sp 2-128	18 17.8−24 03	007.81 − 03.84		(PK)7−3°2, ESO 522-13, Sa 3-128
SRWW 1	07 15.7−01 53	217.38 + 04.53		IRAS 07131-0147
StWr 2-37	18 10.6−48 26	345.16 − 13.68	U	(PK)345−13°1, Sa 2-304
StWr 2-48	17 25.1−59 32	331.89 − 13.13		(PK)331−13°1, Sa 2-193
TDC 2	18 49.5−00 38	032.15 + 00.13		IR 32.150
Te 26	17 07.8−25 04	358.55 + 09.16		
Te 29	17 08.3−25 14	358.49 + 08.96		
Te 35	17 14.0−24 49	359.58 + 08.15		
Te 40	17 16.8−24 59	359.80 + 07.54		
Te 48	17 07.0−29 38	354.73 + 06.60		
Te 67	17 22.9−25 25	000.23 + 06.16		
Te 68	17 24.2−28 47	357.60 + 04.02		
Te 69	17 24.7−28 44	357.69 + 03.96		
Te 677	17 33.4−27 34	359.73 + 03.01		
TeJu 14	17 18.3−26 22	358.85 + 06.47		
Th 3-34	17 37.8−32 15	356.29 − 00.32	U	PK 356−0°1, ESO 455-27
Th 4-4	17 50.4−19 54	008.31 + 03.73	* ?	PK 8+3°2, ARO 260, ESO 589-10

Usual Name	α_{2000} δ_{2000}	ℓ b	Cl	*Other Names*
V 348 Sgr	18 40.4−23 00	011.12 − 07.98	**	
V 1016 Cyg	19 57.1+39 50	075.17 + 05.68	**	(PK)75+5°1
V 1329 Cyg	20 51.0+35 35	077.83 − 05.48	**	(PK)77−5°1, HBV 475
V-V 1-2	04 20.0+53 09	151.21 + 02.14	H	PK 151+2°1, ARO 212, Sh 2-207, VV' 26
V-V 1-4	06 15.2+12 22	197.81 − 02.25	H2?	PK 197−2°1, ARO 177, Sh 2-271, VV' 40
V-V 3-4	18 30.6−19 15	013.45 − 04.24	U	(PK)13−4°2, ESO 591-05, Sa 2-341, V-V Anon. 1, IRAS 18276-1916
VBe 1	16 45.5−46 11	339.12 − 00.41		(PK)339−0°1, G 339.2-0.4
VBe 2	15 51.3−56 21	325.99 − 01.75		(PK)325−1°1
VERA 90	16 38.1−48 43	336.40 − 01.15		(PK)336−1°1
VERA 104	16 42.1−49 45	336.05 − 02.32		(PK)336−2°1
We 1-8	19 48.9+22 25	059.30 − 01.73	H	(PK)59−1°2
We 2-37	07 16.1−10 53	225.42 + 00.45	U	(PK)225+0°1
We 2-262	23 52.3+66 31	117.08 + 04.31	?	(PK)116+0°1
WeSb 6	23 13.1+59 18	110.66 − 01.21	U	(PK)110−1°1
WhBe 1	18 37.1−06 30	025.52 + 00.22		IRAS 18344-0632
Wray 15-12	08 03.2−42 54	258.41 − 06.29		
Wray 16-2	07 24.2−29 00	242.35 − 06.31	U	ARO 235
Wray 16-3	07 28.0−30 42	244.26 − 06.39		ARO 538
Wray 16-6	07 42.0−31 46	246.64 − 04.28		ARO 541
Wray 16-7	07 46.8−33 26	248.59 − 04.22	U	ARO 543
Wray 16-9	07 55.6−48 50	262.89 − 10.45		
Wray 16-13	08 08.6−27 41	246.13 + 02.78		(PK)246+2°1, ARO 247, Sa 3-6
Wray 16-14	08 08.4−50 33	265.46 − 09.54		
Wray 16-19	08 21.1−44 24	261.44 − 04.39	H	(PK)261−4°1, ESO 259-03, Sa 2-25
Wray 16-24	08 38.0−39 44	259.50 + 00.88		
Wray 16-26	08 41.2−36 03	256.95 + 03.62		(PK)256+3°1, ESO 371-06, Sa 2-30
Wray 16-28	08 43.5−48 55	267.37 − 03.95		(PK)267−3°1, Sa 3-7
Wray 16-29	08 50.8−52 36	270.99 − 05.36		ESO 165-06
Wray 16-31	08 52.7−51 41	270.46 − 04.54		
Wray 16-42	09 19.6−59 04	278.53 − 06.63		
Wray 16-45	09 24.1−50 15	272.75 + 00.06		
Wray 16-50	09 32.7−39 34	266.44 + 08.83		
Wray 16-53	09 38.0−50 10	274.32 + 01.65		
Wray 16-55	09 39.6−54 53	277.63 − 01.73		
Wray 16-58	09 46.9−49 24	274.90 + 03.16		
Wray 16-61	09 52.1−53 34	278.17 + 00.45		
Wray 16-73	10 35.6−60 39	287.03 − 02.04		
Wray 16-99	11 39.3−68 46	296.45 − 06.81		
Wray 16-102	11 56.3−55 33	295.13 + 06.48	U	
Wray 16-103	12 00.2−49 26	294.43 + 12.59		
Wray 16-113	12 28.6−65 19	300.55 − 02.56		(PK)300−2°2
Wray 16-129	13 26.1−61 15	307.09 + 01.34	U	
Wray 16-134	13 44.0−55 20	310.41 + 06.78		
Wray 16-143	14 00.3−65 25	310.02 − 03.50	U	(PK)310−3°1
Wray 16-145	14 08.8−57 05	313.33 + 04.23	* ?	
Wray 16-146	14 11.7−64 17	311.50 − 02.76	* ?	
Wray 16-150	14 19.0−67 29	311.19 − 06.03	U	(PK)311−6°1, Sa 3-25
Wray 16-155	14 33.1−60 55	314.97 − 00.44		
Wray 16-158	14 52.6−64 02	315.72 − 04.22	U	(PK)315−4°1, Sa 2-108
Wray 16-161	15 05.5−60 49	318.57 − 02.08		(PK)318−2°3, Sa 2-111
Wray 16-179	15 24.7−51 37	325.65 + 04.37		

Usual Name	α_{2000} δ_{2000}	ℓ b	Cl	*Other Names*
Wray 16-188	15 47.8−35 28	338.82 + 14.82		
Wray 16-192	15 53.5−48 43	331.08 + 03.94	U	(PK)331+3°1, Sa 2-128
Wray 16-197	15 59.8−57 30	326.15 − 03.38		
Wray 16-203	16 08.5−39 03	339.55 + 09.43		
Wray 16-251	17 07.5−44 23	342.95 − 02.31		(PK)342−2°2, Sa 3-41
Wray 16-255	17 10.2−32 59	352.42 + 04.06	H2?	
Wray 16-269	17 24.5−34 42	352.73 + 00.65		
Wray 16-287	17 34.4−38 09	350.94 − 02.91		
Wray 16-295	17 40.6−34 31	354.70 − 02.02		
Wray 16-298	17 44.2−32 02	357.20 − 01.35	* ?	
Wray 16-344	17 59.9−32 59	358.06 − 04.69	U	(PK)358−4°2, Sa 3-107
Wray 16-358	18 03.7−34 53	356.78 − 06.31	U	
Wray 16-376	18 10.6−39 53	352.97 − 09.87		
Wray 17-2	07 18.2−34 55	247.11 − 10.12		(PK)247−10°1, ARO 535, Sa 3-4
Wray 17-3	07 19.1−32 35	245.08 − 08.93		ARO 536
Wray 17-4	07 26.3−34 57	247.89 − 08.67		ARO 537
Wray 17-5	07 28.0−30 45	244.31 − 06.41		
Wray 17-6	07 35.4−44 01	256.90 − 11.24	U	
Wray 17-7	07 37.4−30 08	244.72 − 04.34	U	ARO 540
Wray 17-10	07 56.1−35 42	251.53 − 03.72		ARO 544
Wray 17-11	07 59.5−47 02	261.65 − 08.98		
Wray 17-11	09 59.7−53 28	279.00 + 01.23		
Wray 17-12	07 59.3−55 37	269.21 − 13.28		
Wray 17-13	08 00.4−48 31	263.02 − 09.60		
Wray 17-14	08 01.4−46 57	261.74 − 08.66		
Wray 17-15	08 14.6−33 47	251.93 + 00.51		ARO 546
Wray 17-16	08 15.8−25 59	245.57 + 05.05	U	
Wray 17-17	08 15.9−33 16	251.66 + 01.03		ARO 547
Wray 17-19	08 27.6−38 54	257.63 − 00.24		
Wray 17-21	08 46.6−49 21	268.03 − 03.83		(PK)268−3°1
Wray 17-22	08 56.2−39 02	261.17 + 04.07		
Wray 17-23	09 05.9−50 19	270.79 − 02.08		
Wray 17-24	09 07.1−42 15	264.96 + 03.49		
Wray 17-26	09 13.7−60 46	279.26 − 08.34		
Wray 17-27	09 16.8−64 58	282.62 − 10.96		
Wray 17-28	09 23.2−58 52	278.72 − 06.16		
Wray 17-29	09 24.5−38 37	264.60 + 08.40		
Wray 17-30	09 24.5−54 47	275.97 − 03.13		
Wray 17-32	09 37.1−62 27	282.45 − 07.59		
Wray 17-33	09 38.6−49 46	274.12 + 02.00		
Wray 17-35	09 40.9−56 58	279.14 − 03.17		(PK)279−3°2, ESO 167-02, Sa 3-11, VBRC 3
Wray 17-37	09 48.2−48 33	274.53 + 03.95		
Wray 17-43	10 26.7−60 56	286.24 − 02.84		
Wray 17-44	10 29.3−59 50	285.94 − 01.73		
Wray 17-47	11 44.6−61 12	294.96 + 00.64	U	
Wray 17-48	11 45.7−56 21	293.87 + 05.36		
Wray 17-49	11 47.6−51 28	292.92 + 10.16		
Wray 17-50	11 56.3−57 12	295.49 + 04.87		
Wray 17-51	12 00.4−65 48	297.73 − 03.44	U	
Wray 17-52	12 03.5−54 24	295.92 + 07.81	U	
Wray 17-53	12 10.1−51 47	296.44 + 10.57		
Wray 17-54	12 16.5−49 12	297.08 + 13.28		
Wray 17-55	12 17.4−54 36	297.96 + 07.95	U	

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Usual Name	α_{2000} δ_{2000}	ℓ b	Cl	*Other Names*
Wray 17-56	12 46.5−63 25	302.37 − 00.54		
Wray 17-58	13 10.3−59 45	305.31 + 03.03		
Wray 17-60	13 26.2−63 34	306.79 − 00.96		
Wray 17-61	13 37.7−64 01	307.97 − 01.59	H	
Wray 17-62	13 37.7−61 48	308.37 + 00.58		
Wray 17-63	13 40.4−62 07	308.62 + 00.22		
Wray 17-64	14 08.8−62 30	311.73 − 00.95		
Wray 17-65	14 15.6−74 07	308.70 − 12.19	U	
Wray 17-66	14 18.9−59 53	313.71 + 01.15		
Wray 17-67	14 40.9−65 51	313.82 − 05.32		
Wray 17-69	15 21.1−57 57	321.74 − 00.65	H2?	
Wray 17-70	15 26.9−58 59	321.81 − 01.93		
Wray 17-72	16 04.5−62 23	323.35 − 07.43		
Wray 17-73	16 15.9−61 03	325.26 − 07.38		
Wray 17-74	16 16.7−51 18	332.16 − 00.46	H2?	
Wray 17-75	16 16.9−53 25	330.70 − 02.00		
Wray 17-87	11 18.1−70 38	295.28 − 09.16		
Wray 17-96	17 41.6−30 07	358.54 + 00.13		
Wray 17-104	17 58.4−33 04	357.83 − 04.46		
Y-C 2-2	07 52.8−45 12	259.45 − 09.07		(PK)259−9°1
Y-C 2-9	11 17.1−49 12	287.49 + 10.82		(PK)287+10°1
Y-C 2-13	11 31.4−49 59	289.99 + 10.87	U	(PK)289+10°1
Y-C 2-14	12 43.4−68 13	302.18 − 05.35	U	(PK)302−5°1
Y-C 2-17	15 08.3−23 15	339.46 + 29.74		(PK)339+29°1, ESO 513-20
Y-C 2-19	15 58.8−32 00	342.97 + 15.94	U	(PK)342+15°1
Y-C 2-26	18 41.9−20 32	013.51 − 07.21		(PK)13−7°2, ESO 591-13
Y-C 2-29	18 49.1−19 34	015.14 − 08.30	U	(PK)15−8°1
Y-C 37	07 26.5−05 22	221.73 + 05.29	**	(PK)221+5°2
Y-C 40	07 50.0−17 52	235.51 + 04.26	U	(PK)235+4°1
Y-C 41	08 34.8−55 04	271.50 − 08.72		(PK)271−8°1
Y-C 43	13 16.8−03 04	315.38 + 59.19		(PK)315+59°1
Y-C 44	17 38.4+12 41	036.40 + 21.84	U	(PK)36+21°1
Y-C 45	17 43.1+12 21	036.57 + 20.67	U	(PK)36+20°1
Y-C 47	18 37.4−24 27	009.51 − 08.00		(PK)9−8°1
19W43	17 40.6−28 42	359.63 + 01.07		PBOZ 25, IRAS 17374-2840
19W96	17 47.1−28 46	000.31 − 00.19		

Name	PK	α_{2000} δ_{2000}	ℓ b	Notes
A 11	196−12°1	05 37.3+08 16	196.81 − 12.38	Reflection nebula ? (*a*)
A 17	221− 4°1	06 48.6−09 32	221.12 − 04.96	No emission-line object detected (*b*)
A 32	227+33°1	09 16.4+03 53	227.46 + 33.77	Galaxy or plate fault ? (*a*)
A 76	50−36°1	21 30.1−02 48	050.76 − 36.13	Galaxy (*a* - *c*)
AG Car	289− 0°1	10 56.2−60 27	289.18 − 00.70	Peculiar emission-line star (*a*)
Al 2-C	⋆358+3°10			Al 2-C = 358+ 3. 1 (see Table 1b)
Al 2-D	⋆357+ 2°8	17 29.5−29 47	357.40 + 02.52	No emission line object detected (*b*)
Al 2-E	⋆359+ 3°5			Al 2-E = 359+ 3 4 (*See Note 1)*
Al 2-L	⋆358− 1°3			Al 2-L = 358−1 1 = ESO 455-34 = Wray 17- 98 (see Table 1b)
Al 2-M	⋆357− 2°1	17 47.8−32 21	357.33 − 02.17	No emission-line object detected (*b*)
Al 2-S	⋆ 1− 1°5			Al 2-S = 1−1 4 = Sa 3-92 (see Table 1b)
Anon. 23h33m	114+ 3°1	23 35.5+64 53	114.98 + 03.18	H II region (*b*)
Ap 1-1	357+ 2°1	17 28.8−29 06	357.89 + 03.02	No emission-line object detected (*a*)
Ap 1-2	357+ 2°2	17 29.1−29 14	357.82 + 02.89	No emission-line object detected (*a*)
Ap 1-3	358+ 2°1	17 31.2−28 23	358.78 + 02.96	No emission-line object detected (*a*)
Ap 1-4	359+ 3°3	17 32.1−27 04	359.99 + 03.52	No emission-line object detected (*a*)
Ap 1-5	359+ 2°2	17 33.2−28 20	359.06 + 02.62	No emission-line object detected (*a*)
Ap 1-7	1− 3°2	18 01.5−29 20	001.42 − 03.19	Star (*a*)
Ap 1-8	2− 3°1	18 04.5−28 22	002.59 − 03.28	Symbiotic star (*a*)
Ap 1-9	3− 4°2	18 10.4−28 09	003.41 − 04.33	Symbiotic star (*a*)
Ap 1-10	3− 4°1	18 10.7−27 58	003.59 − 04.30	Symbiotic star (*a*)
Ap 1-11	3− 4°6	18 11.0−28 33	003.12 − 04.63	Symbiotic star (*a*)
Ap 3-1	37− 2°1	19 10.6+02 50	037.64 − 02.97	Me star (*a*)
Bl L	359− 2°1	17 53.2−30 18	359.68 − 02.12	Symbiotic star ? (*a*)
Bl 3-2	1+ 0°1	17 46.0−26 58	001.72 + 00.96	Symbiotic star ? (*a*)
Bl 3-3	1− 0°2	17 49.5−27 46	001.44 − 00.13	No emission-line object detected (*a*)
Bl 3-4	0− 0°1	17 47.2−28 47	000.31 − 00.20	HII Region ?(*a*)
Bl 3-5	358− 0°1	17 42.3−30 27	358.34 − 00.18	M star ? (*a*)
Bl 3-6	358− 2°2	17 53.0−31 19	358.77 − 02.59	Symbiotic star (*a*)
Bl 3-11	1− 0°1	17 48.2−28 01	001.09 − 00.01	Symbiotic star (*a*)
Bl 3-19	1− 0°3	17 51.8−27 48	001.68 − 00.58	Emission-line star (*a*)
Bl 3-22	0− 0°2	17 47.0−29 01	000.09 − 00.29	No emission-line object detected (*a*)
CiPg 1	⋆ 65−27°2	21 30.0+12 10	065.02 − 27.32	No emission-line object detected (*a*)
Cn 1-2	326−10°1	16 44.6−62 37	326.41 − 10.94	Symbiotic star (*a*)
CnMy 17	1− 6°1	18 15.4−30 32	001.81 − 06.41	Symbiotic star (*a*)
CoMaC 2		05 21.9+39 31	168.46 + 01.65	HII region or galaxy (*b*)
ESO 023-08	⋆313−21°1	17 02.0−78 27	313.94 − 21.40	Galaxy (*b*)
ESO 038-07	⋆295−13°1	11 02.7−74 53	295.90 − 13.52	Plate fault (*a*)
ESO 089-05	⋆276−18°1	07 50.6−64 16	276.71 − 18.18	Emission-line galaxy (*a* - *b* - *c*)
ESO 092-02	⋆285− 7°1	09 59.5−64 44	285.85 − 07.73	Emission-line galaxy (*b* - *c*)
ESO 097-03	⋆308− 1°1	13 41.1−64 16	308.29 − 01.91	Plate fault (*a*)
ESO 100-07	⋆321− 9°1	16 01.3−64 48	321.46 − 09.00	Emission-line galaxy (*a* - *b* - *c*)
ESO 100-12	⋆321−11°1	16 12.4−66 39	321.02 − 11.13	Galaxy (*a*)
ESO 100-16	⋆321−11°2	16 17.1−66 38	321.37 − 11.45	Galaxy ? (*a*)
ESO 126-01	⋆277− 7°1	09 12.6−58 51	277.74 − 07.13	Galaxy ? (*a*)
ESO 128-25	⋆288+ 0°2	10 59.7−59 01	288.97 + 00.79	Diffuse nebula or HII region ? (*a*)
ESO 135-09	⋆319− 4°1	15 27.4−62 31	319.88 − 04.90	No emission-line object detected (*a*)
ESO 167-10	⋆280− 2°2	09 53.0−57 25	280.69 − 02.47	No emission-line object detected (*a*)
ESO 180-05	⋆336− 8°1	17 17.2−53 36	336.34 − 08.97	Plate fault (*a*)
ESO 180-06	⋆333−11°1	17 18.9−56 54	333.70 − 11.02	Galaxy (*b*)
ESO 182-04	⋆341−15°1	18 09.5−52 34	341.22 − 15.29	Galaxy (*b*)

Name	PK	α_{2000} δ_{2000}	ℓ b	Notes
ESO 212-08	⋆274− 0°1	09 31.4−52 07	274.87 − 00.50	Plate fault (*a*)
ESO 228-05	⋆339− 9°1	17 34.4−51 03	339.97 − 09.79	Galaxy (*b*)
ESO 247-16		03 04.2−47 04	259.36 − 57.27	Galaxy ? (*b*)
ESO 264-53	⋆283+12°1	10 57.3−46 10	283.14 + 12.26	Emission-line galaxy (*a* - *c*)
ESO 280-02	⋆349−10°1	18 04.5−43 24	349.28 − 10.48	Galaxy (*a* - *b*)
ESO 281-07	⋆348−16°1	18 33.5−46 15	348.86 − 16.34	Emission-line galaxy (*b* - *c*)
ESO 289-19	⋆353−55°1	22 21.1−43 53	353.89 − 55.53	Galaxy (*a* - *b*)
ESO 308-08	⋆249−22°1	06 25.9−41 11	249.16 − 22.00	Plate fault (*a*)
ESO 311-18	⋆254− 6°1	07 54.0−39 50	254.87 − 06.19	Emission line galaxy (*b* - *c*)
ESO 314-12	⋆265+ 5°1	09 19.2−41 11	265.72 + 05.86	Galaxy (*a* - *b*)
ESO 328-04	⋆327+14°1	15 01.4−41 55	327.35 + 14.71	Galaxy (*a* - *b*)
ESO 328-40	⋆329+12°1	15 17.7−42 37	329.61 + 12.55	Galaxy (*a*)
ESO 337-04	⋆356−18°1	18 58.4−39 54	356.77 − 18.26	Galaxy ? (*b*)
ESO 367-03	⋆248−12°1	07 10.4−37 19	248.63 − 12.60	Bar-galaxy (*a*)
ESO 369-01	⋆251− 4°1	07 52.3−36 27	251.77 − 04.76	Plate fault (*a*)
ESO 369-03		08 02.5−34 30	251.19 − 01.97	HII region ? (*b*)
ESO 369-06		08 10.4−34 17	251.88 − 00.47	HII region ? (*b*)
ESO 372-03		09 08.1−34 01	258.94 + 09.17	Galaxy ? (*b*)
ESO 386-19		14 46.2−37 41	326.75 + 19.82	Galaxy ? (*b*)
ESO 390-05	⋆345+10°1	16 24.4−34 15	345.28 + 10.58	Emission-line galaxy (*a* - *b* - *c*)
ESO 391-02	⋆347+ 7°1	16 41.8−34 17	347.69 + 07.89	Plate fault (*a*)
ESO 426-13	⋆239−18°1	06 27.5−31 12	239.23 − 18.39	Galaxy (*a*)
ESO 428-22		07 20.3−28 59	241.96 − 07.07	Galaxy ? (*b*)
ESO 429-04	⋆242− 3°1	07 35.5−28 09	242.78 − 03.74	Galaxy (*a*)
ESO 429-17		07 44.9−30 18	245.67 − 03.00	No emission-line object detected (*b*)
ESO 450-16	⋆341+17°1	15 48.7−32 07	341.22 + 17.27	Galaxy (*a*)
ESO 451-03	⋆343+16°1	15 59.1−31 12	343.58 + 16.49	Galaxy ? (*b*)
ESO 456-64	⋆ 3−4°10	18 10.6−27 51	003.68 − 04.21	Plate fault (*a*)
ESO 456-73		18 12.6−32 06	000.14 − 06.62	Plate fault (*a*)
ESO 490-15		06 34.1−25 41	234.47 − 14.96	Galaxy ? (*b*)
ESO 493-13	⋆241+ 0°1	07 48.1−25 14	241.64 + 00.15	Galaxy (*a* - *c*)
ESO 515-19	⋆346+19°1	16 00.0−27 14	346.58 + 19.24	No emission-line object detected (*b*)
ESO 520-12		17 38.8−23 54	003.49 + 03.94	Star (*b*)
ESO 520-13	⋆ 0+ 2°2	17 39.4−27 16	000.70 + 02.05	Plate fault (*a*)
ESO 522-29	⋆ 9− 6°1	18 29.1−23 51	009.18 − 06.03	Plate fault (*a*)
ESO 524-02		19 01.5−24 34	011.76 − 13.00	Galaxy ? (*b*)
ESO 560-01		07 35.6−18 46	234.58 + 00.84	HII region ? (*b*)
H 1-25	358+ 1°3	17 35.4−29 45	358.12 + 01.46	Symbiotic star ? (*a*)
H 1-49	358− 5°2	18 03.4−32 42	358.67 − 05.20	Symbiotic or peculiar star (*a*)
H 2-2	351+ 3°1	17 07.4−34 05	351.17 + 03.89	Symbiotic star (*a*)
H 2-3	345− 0°1	17 09.6−41 36	345.40 − 00.95	Diffuse nebula or HII region ? (*a*)
H 2-4	352+ 3°1	17 12.2−32 38	352.95 + 03.93	Symbiotic star (*a*)
H 2-5	354+ 4°2	17 15.3−31 34	354.20 + 04.02	Symbiotic star (*a*)
H 2-6	348− 0°1	17 18.4−39 19	348.23 − 00.98	HII region ? (*a*)
H 2-19	351− 4°1	17 45.2−38 17	351.96 − 04.79	Late-type emission-line star (*a*)
H 2-21	356− 2°1	17 47.4−32 50	356.87 − 02.35	No emission-line object detected (*a*)
H 2-28	6+ 2°2	17 51.0−22 20	006.29 + 02.37	Symbiotic star (*a*)
H 2-34	1− 2°1	17 58.5−28 34	001.76 − 02.23	Symbiotic star (*a*)
H 2-38	2− 3°4	18 06.0−28 17	002.82 − 03.54	Symbiotic star ? (*a*)
H 2-47	8− 6°1	18 28.9−24 32	008.55 − 06.30	H alpha emission star (*a*)
He 2-10	248+ 8°1	08 36.3−26 25	248.57 + 08.58	Emission-line galaxy (*a* - *c*)
He 2-38	280− 2°1	09 54.7−57 19	280.81 − 02.24	Symbiotic star (*a*)
He 2-61	288+ 5°1	11 06.5−54 49	288.12 + 05.02	Emission-line star (*a*)

Name	PK	α_{2000} δ_{2000}	ℓ b	Notes
He 2-79	298− 1°1	12 15.3−63 39	298.94 − 01.06	Peculiar emission-line star (*a*)
He 2-80	299− 0°1	12 22.4−63 17	299.67 − 00.60	Emission-line star (*a*)
He 2-87	302− 0°1	12 45.8−63 00	302.29 − 00.14	Me star ? (*a*)
He 2-91	305− 0°1	13 10.1−63 11	305.03 − 00.40	Emission-line star (*a*)
He 2-127	325+ 4°2	15 25.0−51 50	325.56 + 04.17	Symbiotic star (*b*)
He 2-134	319− 9°1	15 47.2−66 29	319.22 − 09.35	Symbiotic star (*a*)
He 2-139	326− 1°1	15 54.8−55 30	326.91 − 01.40	Symbiotic star (*a*)
He 2-156	338+ 5°2	16 21.1−42 24	338.94 + 05.36	Symbiotic star ? (*a*)
He 2-173	342+ 5°1	16 36.4−39 52	342.77 + 05.01	Symbiotic or Me star (*a*)
He 2-174	338+ 1°1	16 38.5−45 24	338.91 + 01.03	H alpha emission star (*a*)
He 2-176	339+ 0°1	16 41.5−45 13	339.40 + 00.74	Symbiotic star (*a*)
He 2-179	339+ 0°2	16 43.3−46 01	339.00 − 00.01	Peculiar emission-line star (*a*)
He 2-183	341− 0°1	16 53.4−44 53	341.01 − 00.64	H alpha emission-line star (*a*)
He 2-269	328−17°1	17 47.1−64 38	328.56 − 17.85	Emission-line galaxy (*a* - *c*)
He 2-275	351− 5°1	17 45.5−38 40	351.67 − 05.03	Symbiotic star (*a*)
He 2-294	357− 3°1	17 51.7−32 55	357.26 − 03.18	Symbiotic star (*a*)
He 2-325	3− 1°1	18 01.1−26 21	003.96 − 01.64	Mep star ? (*a*)
He 2-349	356− 7°1	18 07.7−36 06	356.09 − 07.60	V 615 Sgr, symbiotic star (*a*)
He 2-354	358− 6°1	18 09.9−33 20	358.77 − 06.69	Peculiar emission-line star (*b*)
He 2-370	2− 5°1	18 14.6−29 49	002.36 − 05.92	Symbiotic star ? (*a*)
He 2-374	9− 2°1	18 15.5−21 35	009.73 − 02.21	Symbiotic star (*a*)
He 2-376	4− 5°2	18 15.8−27 54	004.19 − 05.24	Emission-line star (*a*)
He 2-390	5− 5°2	18 21.0−26 48	005.70 − 05.76	Symbiotic star ? (*a*)
He 2-396	10− 3°1	18 23.5−21 53	010.34 − 03.99	M star (*a* - *b*)
He 2-417	12− 7°1	18 42.6−21 18	012.89 − 07.67	Symbiotic star (*a*)
He 2-446	59− 0°1	19 44.1+23 27	059.65 − 00.26	H alpha emission star (*a*)
He 2-467	63−12°1	20 36.0+20 12	063.40 − 12.15	Symbiotic star ? (*a*)
He 2-468	75− 4°1	20 41.4+34 44	075.94 − 04.46	Symbiotic star (*a*)
K 1-5	9−21°1	19 32.4−29 25	009.79 − 21.22	Galaxy (*a* - *c*)
K 1-8	223− 2°1	07 03.3−10 35	223.70 − 02.21	HII region ? (*a*)
K 1-9	219+ 1°1	07 07.3−05 10	219.33 + 01.15	H II region (*a* - *b*)
K 1-25	⋆ 38+ 7°1	18 33.2+08 18	038.30 + 07.82	No emission-line object detected (*b*)
K 2-6	56+14°1	18 41.1+26 56	056.30 + 14.03	No emission-line object detected (*a* - *b*)
K 2-8	10+18°1	17 05.5−10 06	010.92 + 18.11	No emission-line object detected (*a*)
K 2-9	4− 5°4	18 18.7−28 09	004.26 − 05.94	No emission-line object detected (*a*)
K 2-10	32− 6°1	19 13.0−03 32	032.24 − 06.41	No emission line object detected (*b*)
K 2-11	38− 3°3	19 14.3+03 35	038.73 − 03.44	No emission-line object detected (*b*)
K 2-13	⋆247−21°1	06 25.5−39 52	247.77 − 21.68	Plate fault (*a*)
K 2-14	⋆210− 0°2	06 44.6+01 19	210.98 − 00.92	No emission-line object detected (*a*)
K 3-8	35+ 5°1	18 34.9+05 05	035.59 + 05.99	M star (*b*)
K 3-9	23− 1°1	18 40.4−08 44	023.91 − 01.54	Symbiotic star (*a*)
K 3-10	44+ 8°1	18 40.1+14 12	044.40 + 08.89	M star (*a* - *b*)
K 3-12	37+ 4°1	18 44.7+06 07	037.63 + 04.27	Symbiotic star (*b*)
K 3-23	44+ 1°1	19 09.8+11 05	044.87 + 01.03	H alpha emission star (*a*)
K 3-25	37− 3°3	19 13.5+02 18	037.51 − 03.85	Symbiotic star (*a* - *b*)
K 3-28	37− 4°1	19 15.3+02 33	037.94 − 04.14	M star (*a*)
K 3-32	56+ 4°1	19 19.6+22 35	056.16 + 04.26	No emission-line object detected (*a*)
K 3-44	55− 1°2	19 40.9+18 45	055.19 − 01.95	M star (*a* - *b*)
K 3-47	64+ 0°1	19 50.4+28 12	064.46 + 00.90	Me star ? (*a*)
K 3-48	63+ 0°1	19 52.2+27 19	063.89 + 00.12	H II region
K 3-50	70+ 1°1	20 01.7+33 33	070.29 + 01.61	Compact HII region in Sh 2-100 (*a*)
K 3-59	81+ 3°1	20 25.2+43 53	081.44 + 03.49	Me star (*a*)
K 3-85	⋆108+ 0°1	22 50.9+59 30	108.17 + 00.13	Possible Me star (*b*)

Name	PK	α_{2000} δ_{2000}	ℓ b	Notes
K 4-1	30+ 8°1	18 16.5+01 53	030.62 + 08.62	Star (*b*)
K 4-2	37+ 7°1	18 32.2+07 14	037.23 + 07.54	M star (*b*)
K 4-3	36+ 6°1	18 33.8+05 53	036.19 + 06.59	M star (*b*)
K 4-4	38+ 4°1	18 44.2+06 47	038.17 + 04.68	No emission-line object detected (*a*)
K 4-6	34+ 1°1	18 48.3+01 43	034.10 + 01.48	H alpha emission star (*b*)
K 4-7	26− 2°2	18 48.6−06 41	026.65 − 02.41	Symbiotic star (*a*)
K 4-9	58+12°1	18 53.7+28 32	058.96 + 12.13	M star (*a* - *b*)
K 4-11	42+ 1°1	19 03.6+08 44	042.09 + 01.30	Red continuum (*a*)
K 4-12	48+ 4°1	19 03.7+16 27	048.97 + 04.77	Symbiotic star (*a* - *b*)
K 4-13	43+ 1°1	19 04.2+10 11	043.43 + 01.83	M star (*a* - *b*)
K 4-14	35− 2°1	19 04.6+01 23	035.66 − 02.31	Late-type star (*a*)
K 4-15	34− 2°1	19 04.9+00 20	034.77 − 02.84	M star (*b*)
K 4-18	37− 3°1	19 12.1+02 38	037.64 − 03.39	M star (*a* - *b*)
K 4-20	42− 1°1	19 13.5+07 27	042.07 − 01.49	No emission-line object detected (*b*)
K 4-21	45− 0°1	19 14.5+10 51	045.20 − 00.10	M star (*a* - *b*)
K 4-22	38− 4°1	19 17.8+02 49	038.47 − 04.57	M star (*a*)
K 4-23	49+ 0°1	19 18.6+15 00	049.33 + 00.94	M star (*a* - *b*)
K 4-24	48− 0°1	19 21.2+14 07	048.85 − 00.03	M star (*a* - *b*)
K 4-25	36− 6°1	19 22.5+00 13	036.68 − 06.80	No emission-line object detected (*a*)
K 4-26	37− 6°2	19 23.6+00 38	037.18 − 06.85	M star (*a*)
K 4-27	47− 3°1	19 30.4+11 23	047.51 − 03.29	M star (*a*)
K 4-29	57+ 2°1	19 30.6+23 04	057.80 + 02.26	M star (*a*)
K 4-31	50− 3°1	19 37.1+13 41	050.32 − 03.62	M star (*b*)
K 4-32	60+ 0°1	19 42.1+24 30	060.33 + 00.66	M star (*a* - *b*)
K 4-33	64+ 2°1	19 45.7+28 38	064.32 + 02.02	M star (*b*)
K 4-34	54− 3°1	19 46.4+17 01	054.34 − 03.94	M star (*b*)
K 4-35	57− 2°1	19 48.9+20 08	057.32 − 02.89	M star (*a* - *b*)
K 4-36	44−10°1	19 49.6+05 19	044.44 − 10.38	M star (*b*)
K 4-38	57− 3°1	19 51.3+19 58	057.47 − 03.47	Star (*b*)
K 4-39	60− 2°1	19 53.1+23 14	060.50 − 02.16	M star (*a* - *b*)
K 4-40	62− 1°1	19 54.2+24 58	062.12 − 01.48	M star (*a* - *b*)
K 4-42	63− 3°2	20 06.7+25 01	063.65 − 03.86	M star (*a*)
K 4-43	64− 9°1	20 28.1+22 51	064.56 − 09.13	No emission-line object detected (*b*)
K 4-44	93+ 5°1	21 00.5+54 33	093.41 + 05.50	Low excitation knot in the PN 93+ 5.2 = NGC 7008 (*a*)
K 4-45	96+ 1°1	21 35.3+53 47	096.43 + 01.32	H II region (*b*)
K 4-46	108− 5°1	23 09.3+54 45	108.47 − 05.22	Me star (*a*)
K 4-49	⋆210− 0°1	06 44.6+01 20	210.98 − 00.91	H alpha emission-line star, high Balmer decrement (*a*)
K 4-54	⋆ 84+ 2°1	20 42.9+45 57	084.96 + 02.20	M star (*b*)
K 4-56	⋆ 86+ 0°1	20 55.7+46 36	086.88 + 00.90	H alpha emission star (*b*)
K 4-59	⋆127− 1°1	01 30.5+60 31	127.73 − 01.98	Star (*b*)
K 4-60	⋆132− 0°1	02 08.1+60 46	132.16 − 00.72	HII region (*a*)
Kj 1-1	⋆197− 2°2	06 12.8+12 23	197.51 − 02.75	HII region (*a*)
Kj 2-2	⋆113+ 5°1	23 09.2+66 48	113.09 + 05.91	H alpha emission star (*a* - *b*)
Kr 1-1	121− 2°1	00 38.7+60 16	121.35 − 02.56	Reflection nebula (*a*)
Kr 2-1	149− 1°1	03 51.6+51 29	149.10 − 01.99	Reflection nebula (*a*)
Kr 2-2	114+10°1	22 56.7+71 28	114.00 + 10.61	Reflection nebula (*a*)
Lo 2	⋆284−39°1	04 03.2−70 15	284.07 − 39.10	Galaxy (*b*)
LoTr 6	⋆312+25°1	13 34.1−36 50	312.35 + 25.25	Emission-line galaxy (*b* - *c*)
LuSt 1		17 39.3−28 15	359.85 + 01.54	WR 99. Symbiotic star (ESO 1990-06-23)

Name	PK	α_{2000} δ_{2000}	ℓ b	Notes
M 1-15	234− 0°1	07 31.8−19 28	234.76 − 00.28	Possible Be star (*a*)
M 1-21	6+ 7°1	17 34.3−19 09	006.96 + 07.36	Symbiotic star (*a*)
M 1-49	18− 1°1	18 30.2−13 54	018.17 − 01.70	No emission-line object detected (*a*)
M 1-76	74+ 1°1	20 16.5+37 06	074.91 + 01.02	Peculiar star (*a*)
M 3-18	7+ 1°2	17 57.3−21 42	007.57 + 01.44	Symbiotic star (*a*)
M 4-1	241− 7°1	07 16.5−29 19	241.88 − 07.96	Seyfert-2 galaxy (*a* - *c*)
MaC 1-1	⋆217− 0°1	06 58.7−03 41	217.04 − 00.06	H alpha emission star (*a*)
MaC 1-3	⋆339− 3°1	17 01.5−47 46	339.62 − 03.52	Symbiotic star (*b*)
MaC 1-5	⋆ 1+ 4°1	17 32.1−24 45	001.94 + 04.79	Symbiotic star or Me star (*a* - *b*)
MaC 1-6		17 44.9−25 09	003.14 + 02.12	No emission-line object detected (*b*)
MaC 1-7	⋆358− 2°3	17 51.4−31 14	358.68 − 02.25	H alpha emission-line star (*b*)
MaC 1-8	⋆358− 3°3	17 56.0−31 38	358.83 − 03.31	No emission-line object detected (*b*)
MaC 1-9	⋆ 13+ 5°2	17 55.9−14 07	013.99 + 05.51	Symbiotic star (*b*)
MaC 1-14	⋆ 20− 3°1	18 41.2−13 12	020.02 − 03.75	H alpha emission star (*b*)
MaC 1-17	⋆ 30− 7°1	19 13.0−05 21	030.59 − 07.22	Emission-line star or symbiotic star (ESO 1990-06-24)
MaC 2-4	⋆204−13°1	05 47.6+00 39	204.92 − 13.86	Symbiotic star (*a*)
MaC 2-5		07 00.8−22 21	233.98 − 08.03	No emission-line object detected (*b*)
NGC 1985	176+ 0°1	05 37.8+31 59	176.51 + 00.17	Reflection nebula (*a*)
NGC 6164-5	336− 0°1	16 33.9−48 06	336.38 − 00.22	Shell around young massive star HD 148937 (*a* - *b*)
NGC 6857	70+ 1°2	20 01.8+33 32	070.30 + 01.59	Compact HII region in Sh 2-100 (*a*)
PC 18	344− 8°1	17 41.1−47 03	344.00 − 08.66	AE Ara, symbiotic or peculiar star (*a*)
Pe 2-1	266+ 1°1	09 04.2−44 33	266.30 + 01.56	No emission-line object detected (*a*)
Pe 2-2	266+ 2°2	09 09.1−44 18	266.70 + 02.38	No emission-line object detected (*a*)
Pe 2-3	266+ 2°1	09 10.3−44 25	266.93 + 02.46	M star (*a*)
Pe 2-9	334+ 0°1	16 25.0−48 44	334.90 + 00.43	H alpha emission star (*a*)
Pe 2-16	29− 2°1	18 54.2−04 39	029.10 − 02.72	Symbiotic star (*a*)
Pt 1	⋆ 4+ 3°1	17 41.6−23 35	004.10 + 03.56	Star (*b*)
Sa 1-1	⋆284− 5°1	10 02.0−61 57	284.38 − 05.35	Star (*b*)
Sa 3-5	⋆233− 0°1	07 28.3−17 57	233.03 − 00.29	Star ? (*a*)
Sa 3-14	⋆292− 3°1	11 10.5−63 43	292.04 − 03.00	No emission-line object detected (*a*- *b*)
Sa 3-22	⋆305+ 3°1	13 14.5−58 52	305.92 + 03.88	Emission-line star or symbiotic star (*b*)
Sa 3-119	⋆ 3− 3°1	18 06.5−27 44	003.34 − 03.37	Me in the foreground ? (*a*)
Sa 3-149	⋆ 28− 2°1	18 50.1−05 15	028.11 − 02.10	H alpha emission star (*a*)
Sh 2-266	195− 0°1	06 18.9+15 17	195.66 − 00.08	HII region (*a*)
ShWi 2-3	⋆358− 3°6	18 03.3−29 51	001.16 − 03.78	M star (*b*)
SS 129		18 07.1−29 36	001.77 − 04.39	Me star (*b*)
Ste 2-4	⋆356− 3°4	17 49.8−33 32	356.52 − 03.14	No emission-line object detected (*b*)
Ste 2	⋆309+ 6°1	13 38.9−56 07	309.56 + 06.14	Star (*a*)
Ste 3	⋆310+ 2°1	13 53.4−58 58	310.86 + 02.95	Star (*a*)
StWr 4-9	⋆317+19°1	14 03.3−41 23	317.14 + 19.49	Galaxy (*a*)
Th 1-I	28− 4°2	18 58.9−05 22	028.99 − 04.09	No emission-line object detected (*a*)
Th 2-B	307− 1°1	13 28.6−63 50	307.02 − 01.25	No emission-line object detected (*a*)
Th 3-5	355+ 3°1	17 19.1−30 54	355.21 + 03.75	No emission-line object detected (*a*)
Th 3-7	356+ 4°3	17 21.0−29 23	356.70 + 04.27	Symbiotic or Me star (*a*)
Th 3-8	354+ 2°1	17 22.6−32 14	354.54 + 02.37	No emission-line object detected (*a*)
Th 3-9	355+ 2°1	17 24.0−31 02	355.70 + 02.80	Symbiotic star or emission-line object detected (*a*)
Th 3-17	357+ 3°3	17 27.5−29 03	357.78 + 03.27	Symbiotic star (*a*)
Th 3-18	358+ 3°5	17 28.4−28 39	358.23 + 03.33	Symbiotic star (*a*)
Th 3-20	357+ 2°3	17 29.1−29 43	357.41 + 02.62	Symbiotic star (*a*)

Name	PK	α_{2000} δ_{2000}	ℓ b	Notes
Th 3-21	356+1°1	17 30.0−30 39	356.74 + 01.95	No emission-line object detected (*a*)
Th 3-28	359+3°1	17 31.0−26 59	359.92 + 03.78	WR star (*b*)
Th 3-29	358+2°3	17 32.5−29 05	358.34 + 02.35	Symbiotic star (*a*)
Th 3-30	359+2°1	17 33.7−28 07	359.30 + 02.65	Symbiotic star (*a*)
Th 3-31	358+1°2	17 34.3−29 29	358.22 + 01.81	Symbiotic star ? (*a*)
Th 3-36	359+1°2	17 39.3−28 47	359.41 + 01.25	M star (*a*)
Th 4-8	7+2°1	17 52.7−21 15	007.42 + 02.58	No emission-line object detected (*b*)
V-V 1-5	196−1°1	06 15.8+14 16	196.21 − 01.21	HII region (*a*)
V-V 1-7	235+1°1	07 41.2−19 00	235.44 + 01.89	Reflection nebula ? (*a*)
Vd 1-7	347+3°1	16 57.5−37 07	347.54 + 03.64	No emission-line object detected (*a*)
Ve 22	266+0°1	08 59.3−45 36	266.51 + 00.22	H alpha emission star (*a*)
Ve 27	266−1°1	08 52.0−46 18	266.23 − 01.20	Peculiar emission-line object (*a*)
VV 1-8	26+1°1	18 33.4−04 58	026.45 + 01.74	HII region ? (*a*)
We 1-12	⋆110−0°1	23 12.2+59 36	110.67 − 00.89	No emission-line object detected (*a*)
We 2-260	⋆111−3°1	23 22.3+57 46	111.25 − 03.07	Nebula of unknown nature (*b*)
Wray 16-11		08 02.8−47 58	262.74 − 08.99	No emission-line object detected (*b*)
Wray 16-15		08 11.8−35 21	252.93 − 00.84	Nova CP Pup (*a*)
Wray 16-17		08 14.2−41 42	258.50 − 03.93	Symbiotic star (*a*)
Wray 16-51		09 33.5−46 35	271.35 + 03.80	S or M star with emission (*a*)
Wray 16-52		09 34.7−41 41	268.17 + 07.54	Galaxy ? (*b*)
Wray 16-60		09 48.4−59 32	281.56 − 04.49	Probable SV Car star (*a*)
Wray 16-63		10 02.3−58 14	282.16 − 02.35	H alpha emission star (*b*)
Wray 16-65		10 04.8−47 06	275.83 + 06.81	Star (*b*)
Wray 16-82/83		11 00.9−60 49	289.87 − 00.78	Diffuse nebula or HII region (*a*)
Wray 16-84		11 03.3−58 27	289.17 + 01.49	Emission-line star (*a*)
Wray 16-97		11 38.1−62 16	294.51 − 00.60	WR star (*a*)
Wray 16-109		12 20.0−62 55	299.36 − 00.27	Diffuse nebula or HII region ? (*a*)
Wray 16-118		12 34.9−61 39	300.97 + 01.16	Diffuse nebula or HII region ? (*a*)
Wray 16-136		13 49.6−61 32	309.80 + 00.56	WR star (*a*)
Wray 16-154		14 31.1−61 21	314.59 − 00.75	WR star (*a*)
Wray 16-160	⋆320+0°1	15 05.3−57 32	320.15 + 00.80	HII region (*a*)
Wray 16-166/167		15 07.1−57 48	320.23 + 00.43	Diffuse nebula or HII region ? (*a*)
Wray 16-172		15 18.2−59 39	320.52 − 01.89	Same object as Wra 16-173 = 320- 1.2 = WC star (*a*)
Wray 16-173		15 18.4−59 38	320.54 − 01.88	WR star (*a*)
Wray 16-174		15 19.5−57 22	321.87 − 00.05	H alpha emission-line star(*b*)
Wray 16-185		15 45.0−54 02	326.72 + 00.62	HII region ? (*a*)
Wray 16-196		15 59.6−53 46	328.57 − 00.53	H II region (*a*)
Wray 16-202	⋆332+1°1	16 06.9−49 27	332.28 + 01.96	Symbiotic star (*a*)
Wray 16-206		16 12.6−46 38	334.89 + 03.38	WR star (*b*)
Wray 16-214		16 19.5−50 38	332.93 − 00.29	Me star (*a*)
Wray 16-216		16 20.9−50 02	333.52 − 00.02	HII region ? (*b*)
Wray 16-237		16 51.3−26 00	355.52 + 11.55	Emission-line star or symbiotic star (*b*)
Wray 16-292		17 36.3−33 26	355.13 − 00.70	WC star WR 95 (*a*)
Wray 16-294		17 39.2−25 38	002.06 + 02.94	Star Hen 1447 (*a*)
Wray 16-312	⋆358−1°2	17 50.3−30 58	358.79 − 01.91	Symbiotic star (*a*)
Wray 16-319		17 52.0−35 23	355.15 − 04.47	V 720 Sco, Nova Sco 1950b (*b*)
Wray 16-355		18 03.1−31 35	359.61 − 04.59	Star (*b*)
Wray 16-384		18 12.2−33 11	359.14 − 07.04	Symbiotic star (*a*)
Wray 16-391		18 14.4−42 51	350.61 − 11.83	Symbiotic star (*b*)
Wray 16-401		18 17.3−28 10	004.11 − 05.68	Symbiotic star ? (*b*)
Wray 16-421		18 53.3−24 23	011.15 − 11.23	Symbiotic star (*a*)

Name	PK	α_{2000} δ_{2000}	ℓ b	Notes
Wray 17-8		07 49.7−27 36	243.85 − 00.74	No emission-line object detected (*b*)
Wray 17-20		07 51.5−55 42	268.76 − 14.29	No emission-line object detected (*b*)
Wray 17-25		09 09.2−37 43	261.86 + 06.86	No emission-line object detected (*b*)
Wray 17-34		09 39.9−63 12	283.20 − 07.93	Star (*b*)
Wray 17-36		09 46.3−65 43	285.40 − 09.36	Star (*b*)
Wray 17-39		10 02.9−55 50	280.79 − 00.37	No emission-line object detected (*b*)
Wray 17-41		10 08.8−67 00	288.00 − 08.97	Galaxy ? (*b*)
Wray 17-42		10 21.1−67 32	289.29 − 08.74	No emission-line object detected(*b*)
Wray 17-46		11 23.2−62 20	292.89 − 01.20	Star (*b*)
Wray 17-57		12 53.3−61 46	303.15 + 01.10	Star (*b*)
Wray 17-71		15 49.9−24 26	346.87 + 22.85	No emission-line object detected (*b*)
Y-C 2-1	⋆259− 9°2	07 52.5−45 51	259.99 − 09.44	No emission-line object detected (*b*)
Y-C 2-3	⋆259− 7°1	07 59.5−44 44	259.65 − 07.81	No emission-line object detected (*b*)
Y-C 2-4	⋆238+ 7°1	08 09.2−18 42	238.59 + 07.73	Emission-line galaxy (*b*)
Y-C 2-6	⋆289−11°1	10 05.8−70 01	289.59 − 11.56	Galaxy (*b*)
Y-C 2-7	⋆285+11°1	11 09.2−48 03	285.81 + 11.39	No emission-line object detedted (*b*)
Y-C 2-8	⋆286+10°1	11 10.6−49 06	286.45 + 10.52	Emission-line galaxy (*b* - *c*)
Y-C 2-12	⋆290+ 9°1	11 29.9−51 15	290.17 + 09.58	Galaxy (*b*)
Y-C 2-16	⋆333+32°1	14 44.9−23 48	333.85 + 32.18	Emission-line galaxy (*b* - *c*)
Y-C 34	⋆231− 8°1	06 51.8−20 14	231.14 − 09.00	Galaxy (*b*)
Y-C 36	⋆221+ 4°1	07 22.2−05 56	221.73 + 04.09	Galaxy ? (*b*)
Y-C 39	⋆223+ 4°1	07 26.9−07 33	223.71 + 04.36	Galaxy (*b*)
Y-C 42	⋆214+31°1	08 46.0+12 37	214.19 + 31.06	Emission-line galaxy (*b* - *c*)
Y-C 46	⋆ 40+ 7°1	18 36.4+10 19	040.47 + 07.99	Galaxy ? (*b*)

Note (1)
This PK number was first given to the object Wray 17- 88 (1966) by Allen (1979) and then used by Mac Connell (1983). The object Wray 17-88 was not detected as having any emission-lines and is thus not a PN. Kohoutek (1983) gives the designation 359+ 3.4 to the object Al 2-E found by Allen and this should be used, although Allen himself gives 359+ 3. 5.

(*a*) = ACPS87
(*b*) = AS90
(*c*) = ASV91

α_{2000} δ_{2000}	Designation
00 01.6+70 43	**PN** G118.7+08.2
00 07.6+64 58	*PN?* Sh 1-118
00 12.6+69 11	**PN** G119.4+06.5
00 13.0+72 31	**PN** G120.0+09.8
00 18.7+53 53	**PN** G118.0–08.6
00 20.0+62 59	**PN** G119.3+00.3
00 25.4+64 09	*PN?* JoDi 1
00 28.3+55 58	**PN** G119.6–06.7
00 31.9+57 23	**PN** G120.2–05.3
00 37.3−13 42	**PN** G108.4–76.1
00 38.7+60 16	Kr 1-1
00 38.9+66 24	**PN** G121.6+03.5
00 40.4+62 51	**PN** G121.6–00.0
00 45.6+57 57	**PN** G122.1–04.9
00 47.1−11 52	**PN** G118.8–74.7
00 59.9+15 44	**PN** G125.9–47.0
01 00.9+55 04	**PN** G124.3–07.7
01 07.1+73 33	**PN** G124.0+10.7
01 11.1+10 22	*PN?* Re 1
01 25.0+65 39	**PN** G126.3+02.9
01 30.5+60 31	K 4-59
01 30.7+58 22	**PN** G128.0–04.1
01 37.3+50 28	**PN** G130.3–11.7
01 42.4+51 34	**PN** G130.9–10.5
01 42.6+60 10	**PN** G129.2–02.0
01 53.0+56 24	**PN** G131.4–05.4
01 57.6+63 19	**PN** G130.2+01.3
01 58.0+10 58	*PN?* EGB 2
01 58.6+66 34	**PN** G129.5+04.5
01 58.8+52 54	**PN** G133.1–08.6
02 03.7+64 58	**PN** G130.4+03.1
02 08.1+60 46	K 4-60
02 12.2+64 09	**PN** G131.5+02.6
02 19.8+55 18	*PN?* NeVe 3
02 26.5+65 48	**PN** G132.4+04.7
02 45.4+42 33	**PN** G144.3–15.5
02 52.2+50 36	**PN** G141.7–07.8
02 57.0−44 10	**PN** G255.3–59.6
02 58.9+64 30	**PN** G136.1+04.9
03 03.8+64 54	**PN** G136.3+05.5
03 04.2−47 04	ESO 247-16
03 10.3+61 19	**PN** G138.8+02.8
03 11.0+62 48	**PN** G138.1+04.1
03 16.6+46 54	*PN?* HaWe 3
03 27.3+45 24	**PN** G149.4–09.2
03 33.3−25 52	**PN** G220.3–53.9
03 36.1+60 04	**PN** G142.1+03.4
03 41.7+52 17	**PN** G147.4–02.3
03 45.4+37 49	**PN** G156.9–13.3
03 47.5+35 03	**PN** G159.0–15.1
03 48.7+55 54	*PN?* NeVe 4
03 49.1+50 00	**PN** G149.7–03.3

α_{2000} δ_{2000}	Designation
03 51.6+51 29	Kr 2-1
03 53.5+19 28	**PN** G171.3–25.8
03 56.4+33 53	**PN** G161.2–14.8
04 03.2−70 15	Lo 2
04 07.0+60 55	**PN** G144.5+06.5
04 09.3+30 47	**PN** G165.5–15.2
04 13.3+56 57	**PN** G147.8+04.1
04 13.5+51 51	**PN** G151.4+00.5
04 14.3−12 44	**PN** G206.4–40.5
04 15.9+48 50	**PN** G153.7–01.4
04 20.0+53 09	*PN?* V-V 1-2
04 20.8+56 18	**PN** G149.0+04.4
04 25.2+72 49	*PN?* EGB 3
04 25.5−66 47	*PN?* SMC 1
04 25.8+60 07	**PN** G146.7+07.6
04 36.6+33 40	**PN** G167.4–09.1
04 37.3+25 03	**PN** G174.2–14.6
04 39.8+36 46	**PN** G165.5–06.5
04 42.9+36 07	**PN** G166.4–06.5
04 45.0+46 49	*PN?* Sh 2-216
04 46.7+44 28	**PN** G160.5–00.5
04 49.3+56 42	*PN?* NeVe 5
04 54.5+42 17	**PN** G163.1–00.8
05 03.0−39 46	**PN** G243.8–37.1
05 03.1−15 36	**PN** G215.5–30.8
05 03.5+41 42	*PN?* CoMaC 1
05 03.7−06 10	**PN** G205.8–26.7
05 05.6+10 42	**PN** G190.3–17.7
05 05.9−42 48	*PN?* ESO 252-09
05 06.6+39 08	**PN** G167.0–00.9
05 07.1+30 50	**PN** G173.7–05.8
05 18.2+37 34	*PN?* IC 2120
05 21.9+39 31	CoMaC 2
05 27.5−12 42	**PN** G215.2–24.2
05 29.0+36 02	*PN?* A 9
05 29.0−00 41	*PN?* MaC 2-2
05 31.6+28 59	**PN** G178.3–02.5
05 31.8+06 56	**PN** G197.2–14.2
05 37.3+08 16	A 11
05 37.8+31 59	NGC 1985
05 37.9+55 32	*PN?* HDW 4
05 38.3+00 14	*PN?* MaC 2-3
05 40.7+12 21	**PN** G193.6–09.5
05 40.9+35 43	**PN** G173.7+02.7
05 41.4+39 15	**PN** G170.7+04.6
05 42.1+09 05	**PN** G196.6–10.9
05 42.6+36 09	**PN** G173.5+03.2
05 46.8+24 22	**PN** G184.0–02.1
05 47.6+00 39	MaC 2-4
05 52.8+28 06	**PN** G181.5+00.9
05 55.1−22 54	**PN** G228.2–22.1
05 56.4+46 06	**PN** G166.1+10.4

α_{2000} δ_{2000}	Designation
05 57.0−75 40	**PN G286.8–29.5**
05 58.8+25 19	**PN G184.6+00.6**
05 59.4+10 42	**PN G197.4–06.4**
06 01.9+26 25	*PN?* NeVe 6
06 02.1−37 25	*PN?* K 2-12
06 02.4+09 39	**PN G198.6–06.3**
06 04.8+03 56	**PN G204.0–08.5**
06 11.1+11 47	**PN G197.8–03.3**
06 12.8+12 23	Kj 1-1
06 13.9+26 53	**PN G184.8+04.4**
06 14.6+07 35	**PN G201.9–04.6**
06 15.2+12 22	*PN?* V-V 1-4
06 15.8+14 16	V-V 1-5
06 16.2+28 22	**PN G183.8+05.5**
06 18.9+15 17	Sh 2-266
06 19.6+55 37	**PN G158.9+17.8**
06 21.7−12 59	**PN G221.3–12.3**
06 23.6−10 13	**PN G218.9–10.7**
06 23.7+33 49	*PN?* GM 1-11
06 23.9+05 30	**PN G204.8–03.5**
06 25.5−39 52	K 2-13
06 25.9−41 11	ESO 308-08
06 26.0+17 47	**PN G194.2+02.5**
06 27.0−25 23	**PN G233.5–16.3**
06 27.5−31 12	ESO 426-13
06 29.6+71 04	**PN G143.6+23.8**
06 33.5+12 38	*PN?* NeVe 7
06 34.1+44 47	**PN G170.3+15.8**
06 34.1−25 41	ESO 490-15
06 35.7−00 06	**PN G211.2–03.5**
06 37.3+24 01	**PN G189.8+07.7**
06 39.9+11 07	**PN G201.7+02.5**
06 40.2+21 25	**PN G192.5+07.2**
06 41.6−05 03	**PN G216.3–04.4**
06 42.0+37 08	*PN?* NeVe 8
06 43.9+61 47	**PN G153.7+22.8**
06 44.6+01 19	K 2-14
06 44.6+01 20	K 4-49
06 47.1+04 37	*PN?* K 4-50
06 48.6−09 32	A 17
06 50.7−22 26	**PN G233.0–10.1**
06 51.8−20 14	Y-C 34
06 52.5+09 58	**PN G204.1+04.7**
06 53.6+03 08	**PN G210.3+01.9**
06 54.5−25 21	**PN G236.0–10.6**
06 55.2−29 07	**PN G239.6–12.0**
06 56.2−02 53	**PN G216.0–00.2**
06 58.7−03 41	MaC 1-1
06 59.5−79 39	**PN G291.3–26.2**
06 59.9+14 37	**PN G200.7+08.4**
07 00.4+04 21	**PN G210.0+03.9**
07 00.8−22 21	MaC 2-5

α_{2000} δ_{2000}	Designation
07 02.8−13 43	**PN G226.4–03.7**
07 02.8−31 36	**PN G242.6–11.6**
07 03.3−10 35	K 1-8
07 05.3+02 47	**PN G212.0+04.3**
07 05.7−33 19	*PN?* ESO 367-01
07 06.7−11 46	*PN?* Sa 2-4
07 06.8−03 05	**PN G217.4+02.0**
07 07.0−22 02	**PN G234.3–06.6**
07 07.3−05 10	K 1-9
07 08.0−40 21	*PN?* ESO 309-20
07 09.4−00 48	**PN G215.6+03.6**
07 10.4−37 19	ESO 367-03
07 11.3−19 51	**PN G232.8–04.7**
07 12.6−16 06	**PN G229.6–02.7**
07 14.8−27 50	**PN G240.3–07.6**
07 14.8−46 57	**PN G258.0–15.7**
07 15.7−01 53	*PN?* SRWW 1
07 16.1−10 53	*PN?* We 2-37
07 16.5−29 19	M 4-1
07 17.4−10 11	**PN G224.9+01.0**
07 18.2−34 55	*PN?* Wray 17-2
07 19.1−32 35	*PN?* Wray 17-3
07 19.3−40 00	*PN?* ESO 310-11
07 19.4−21 44	**PN G235.3–03.9**
07 20.3−28 59	ESO 428-22
07 21.2−18 09	**PN G232.4–01.8**
07 22.2−05 56	Y-C 36
07 23.0+01 46	**PN G214.9+07.8**
07 24.2−29 00	*PN?* Wray 16-2
07 25.6+29 30	**PN G189.1+19.8**
07 26.3−34 57	*PN?* Wray 17-4
07 26.5−05 22	*PN?* Y-C 37
07 26.6−05 22	**PN G221.7+05.3**
07 26.9−07 33	Y-C 39
07 27.9−20 13	**PN G234.9–01.4**
07 28.0−30 42	*PN?* Wray 16-3
07 28.0−30 45	*PN?* Wray 17-5
07 28.3−17 57	Sa 3-5
07 28.9−35 45	**PN G248.8–08.5**
07 29.0+13 15	**PN G205.1+14.2**
07 29.2+20 55	**PN G197.8+17.3**
07 29.3−45 26	*PN?* ESO 257-18
07 29.9−02 06	*PN?* RWT 152
07 31.8−19 28	M 1-15
07 35.4−44 01	*PN?* Wray 17-6
07 35.5−28 09	ESO 429-04
07 35.6−18 46	ESO 560-01
07 36.1+02 42	**PN G215.6+11.1**
07 37.3−09 39	**PN G226.7+05.6**
07 37.4−30 08	*PN?* Wray 17-7
07 40.4−11 32	**PN G228.8+05.3**
07 41.2−19 00	V-V 1-7

α_{2000} δ_{2000}	Designation
07 41.8−14 44	**PN G231.8+04.1**
07 41.9−18 13	**PN G234.8+02.4**
07 42.0−31 46	*PN?* Wray 16-6
07 42.1−14 21	**PN G231.4+04.3**
07 42.4−32 48	*PN?* PGK 248-5
07 43.3−34 45	**PN G249.3−05.4**
07 44.9−30 18	ESO 429-17
07 46.8−33 26	*PN?* Wray 16-7
07 47.3−51 15	**PN G264.4−12.7**
07 47.4−27 20	**PN G243.3−01.0**
07 48.1−14 08	**PN G232.0+05.7**
07 48.1−25 14	ESO 493-13
07 49.7−27 36	Wray 17-8
07 50.0−17 52	*PN?* Y-C 40
07 50.2−19 18	**PN G236.7+03.5**
07 50.6−64 16	ESO 089-05
07 51.3−52 19	*PN?* ESO 209-05
07 51.5−55 42	Wray 17-20
07 51.6+03 00	**PN G217.1+14.7**
07 52.3−36 27	ESO 369-01
07 52.5−45 51	Y-C 2-1
07 52.5−52 18	*PN?* ESO 209-07
07 52.8−45 12	*PN?* Y-C 2-2
07 53.0−36 44	*PN?* Sa 2-18
07 54.0−39 50	ESO 311-18
07 55.2+09 33	**PN G211.4+18.4**
07 55.2−23 38	**PN G241.0+02.3**
07 55.6−48 50	*PN?* Wray 16-9
07 56.1−35 42	*PN?* Wray 17-10
07 57.9+53 25	**PN G164.8+31.1**
07 59.3−55 37	*PN?* Wray 17-12
07 59.5−44 44	Y-C 2-3
07 59.5−47 02	*PN?* Wray 17-11
08 00.1−50 40	*PN?* ESO 209-10
08 00.4−48 31	*PN?* Wray 17-13
08 01.4−46 57	*PN?* Wray 17-14
08 02.5−27 42	**PN G245.4+01.6**
08 02.5−34 30	ESO 369-03
08 02.8−47 58	Wray 16-11
08 03.0−49 37	*PN?* ESO 209-13
08 03.2−42 54	*PN?* Wray 15-12
08 04.2−34 16	**PN G251.1−01.5**
08 05.2−48 23	**PN G263.3−08.8**
08 06.8−02 53	**PN G224.3+15.3**
08 08.4−50 33	*PN?* Wray 16-14
08 08.6−27 41	*PN?* Wray 16-13
08 08.7−19 14	**PN G238.9+07.3**
08 09.0−32 40	**PN G250.3+00.1**
08 09.2−18 42	Y-C 2-4
08 10.4−34 17	ESO 369-06
08 10.7−20 32	**PN G240.3+07.0**
08 11.2+10 57	**PN G211.9+22.6**

α_{2000} δ_{2000}	Designation
08 11.5−48 43	**PN G264.1−08.1**
08 11.8−35 21	Wray 16-15
08 14.2−41 42	Wray 16-17
08 14.6−33 47	*PN?* Wray 17-15
08 15.8−25 59	*PN?* Wray 17-16
08 15.9−33 16	*PN?* Wray 17-17
08 16.2−39 52	**PN G257.1−02.6**
08 20.7−46 20	**PN G263.0−05.5**
08 20.9−35 17	*PN?* MeWe 2-1
08 20.9−36 14	**PN G254.6+00.2**
08 21.1−44 24	*PN?* Wray 16-19
08 23.7−43 13	**PN G260.7−03.3**
08 23.9−45 31	**PN G262.6−04.6**
08 27.6−38 54	*PN?* Wray 17-19
08 28.5−39 24	**PN G258.1−00.3**
08 28.9−40 21	*PN?* ESO 312-06
08 31.0−38 20	**PN G257.5+00.6**
08 31.7−27 46	**PN G249.0+06.9**
08 31.9−32 06	**PN G252.6+04.4**
08 33.4−16 09	**PN G239.6+13.9**
08 34.1−47 17	**PN G265.1−04.2**
08 34.5−46 26	**PN G264.4−03.6**
08 34.8−55 04	*PN?* Y-C 41
08 36.3−26 25	He 2-10
08 36.3−35 16	**PN G255.7+03.3**
08 37.1−39 26	**PN G259.1+00.9**
08 38.0−39 44	*PN?* Wray 16-24
08 39.5−35 00	*PN?* ESO 371-02
08 40.2−20 54	**PN G244.5+12.5**
08 40.7−32 22	**PN G253.9+05.7**
08 41.2−36 03	*PN?* Wray 16-26
08 41.6+58 14	**PN G158.8+37.1**
08 42.3−40 44	**PN G260.7+00.9**
08 43.3−37 39	*PN?* ESO 371-09
08 43.4−46 08	**PN G265.1−02.2**
08 43.5−48 55	*PN?* Wray 16-28
08 46.0+12 37	Y-C 42
08 46.6−49 21	*PN?* Wray 17-21
08 46.9+17 53	**PN G208.5+33.2**
08 48.6−42 54	**PN G263.2+00.4**
08 50.8−52 36	*PN?* Wray 16-29
08 52.0−46 18	Ve 27
08 52.5−38 54	*PN?* ESO 313-16
08 52.7−51 41	*PN?* Wray 16-31
08 53.5−40 04	**PN G261.6+03.0**
08 53.6−54 05	**PN G272.4−05.9**
08 54.2+08 54	**PN G219.1+31.2**
08 54.3−50 32	**PN G269.7−03.6**
08 56.2−39 02	*PN?* Wray 17-22
08 57.8−28 57	**PN G253.5+10.7**
08 59.3−45 36	Ve 22
09 04.2−44 33	Pe 2-1

α_{2000} δ_{2000}	Designation
09 05.9−50 19	*PN?* Wray 17-23
09 07.1−42 15	*PN?* Wray 17-24
09 07.1−69 56	**PN** G285.7−14.9
09 08.1−34 01	ESO 372-03
09 08.7−53 19	**PN** G273.2−03.7
09 09.1−44 18	Pe 2-2
09 09.2−37 43	Wray 17-25
09 10.3−44 25	Pe 2-3
09 12.4−42 26	**PN** G265.7+04.1
09 12.6−58 51	ESO 126-01
09 13.7−60 46	*PN?* Wray 17-26
09 13.9−55 28	**PN** G275.3−04.7
09 15.1−54 53	**PN** G275.0−04.1
09 16.0−36 38	**PN** G261.9+08.5
09 16.2−45 29	**PN** G268.4+02.4
09 16.4+03 53	A 32
09 16.8−64 58	*PN?* Wray 17-27
09 18.0−54 39	**PN** G275.2−03.7
09 19.2−41 11	ESO 314-12
09 19.5−59 12	**PN** G278.6−06.7
09 19.6−59 04	*PN?* Wray 16-42
09 21.4−58 19	**PN** G278.1−05.9
09 22.1−54 10	**PN** G275.2−02.9
09 23.2−58 52	*PN?* Wray 17-28
09 24.1−50 15	*PN?* Wray 16-45
09 24.5−38 37	*PN?* Wray 17-29
09 24.5−54 47	*PN?* Wray 17-30
09 24.7−54 36	**PN** G275.8−02.9
09 27.1−56 06	**PN** G277.1−03.8
09 30.8−53 10	**PN** G275.5−01.3
09 30.9−57 37	**PN** G278.5−04.5
09 31.4−52 07	ESO 212-08
09 31.5−56 18	**PN** G277.7−03.5
09 32.7−39 34	*PN?* Wray 16-50
09 33.5−46 35	Wray 16-51
09 34.7−41 41	Wray 16-52
09 37.1−62 27	*PN?* Wray 17-32
09 38.0−50 10	*PN?* Wray 16-53
09 38.6−49 46	*PN?* Wray 17-33
09 38.8−60 05	**PN** G281.0−05.6
09 39.2−02 49	**PN** G238.0+34.8
09 39.6−54 53	*PN?* Wray 16-55
09 39.9−63 12	Wray 17-34
09 40.9−56 58	*PN?* Wray 17-35
09 41.2−49 23	**PN** G274.1+02.5
09 41.6−49 58	**PN** G274.6+02.1
09 43.4−57 17	**PN** G279.6−03.1
09 45.6−13 10	**PN** G248.7+29.5
09 46.3−65 43	Wray 17-36
09 46.9−49 24	*PN?* Wray 16-58
09 47.4−48 58	**PN** G274.6+03.5
09 48.0+13 17	*PN?* CW Leo

α_{2000} δ_{2000}	Designation
09 48.2−48 33	*PN?* Wray 17-37
09 48.4−59 32	Wray 16-60
09 52.1−53 34	*PN?* Wray 16-61
09 52.7−46 17	**PN** G273.6+06.1
09 53.0+13 45	**PN** G221.5+46.3
09 53.0−57 25	ESO 167-10
09 54.7−57 19	He 2-38
09 58.2−50 40	*PN?* MeWe 2-2
09 59.5−64 44	ESO 092-02
09 59.7−53 28	*PN?* Wray 17-11
10 02.0−61 57	Sa 1-1
10 02.3−58 14	Wray 16-63
10 02.9−55 50	Wray 17-39
10 03.8−60 44	**PN** G283.8−04.2
10 04.8−47 06	Wray 16-65
10 05.8−44 22	**PN** G274.3+09.1
10 05.8−70 01	Y-C 2-6
10 06.9−64 22	**PN** G286.2−06.9
10 07.0−40 26	**PN** G272.1+12.3
10 07.4−63 55	**PN** G286.0−06.5
10 08.8−67 00	Wray 17-41
10 09.4−62 37	**PN** G285.4−05.3
10 09.4−80 52	**PN** G296.6−20.0
10 12.0−52 38	**PN** G280.0+02.9
10 13.3−50 20	**PN** G278.8+04.9
10 14.4−58 12	*PN?* MeWe 1-2
10 15.6−58 51	**PN** G283.9−01.8
10 17.8−62 40	**PN** G286.3−04.8
10 21.1−67 32	Wray 17-42
10 23.2−60 33	**PN** G285.6−02.7
10 24.8−18 39	**PN** G261.0+32.0
10 26.7−60 56	*PN?* Wray 17-43
10 28.7−59 04	**PN** G285.4−01.1
10 29.3−59 50	*PN?* Wray 17-44
10 31.5−53 33	**PN** G282.9+03.8
10 31.6−55 21	**PN** G283.8+02.2
10 34.3−53 41	**PN** G283.3+03.9
10 34.5−29 11	**PN** G270.1+24.8
10 35.6−60 39	*PN?* Wray 16-73
10 35.8−64 19	**PN** G288.8−05.2
10 38.5−56 47	**PN** G285.4+01.5
10 39.5−57 06	**PN** G285.7+01.2
10 41.3−56 09	**PN** G285.4+02.2
10 44.5−61 40	**PN** G288.4−02.4
10 48.7−56 03	**PN** G286.3+02.8
10 54.0−60 27	**PN** G288.9−00.8
10 54.6−59 10	**PN** G288.4+00.3
10 54.7−48 47	**PN** G283.9+09.7
10 56.0−61 28	**PN** G289.6−01.6
10 56.2−60 27	AG Car
10 57.3−46 10	ESO 264-53
10 59.7−59 01	ESO 128-25

α_{2000} δ_{2000}	Designation
11 00.3−65 15	**PN** G291.6−04.8
11 00.9−60 49	Wray 16-82/83
11 02.7−74 53	ESO 038-07
11 03.3−58 27	Wray 16-84
11 03.9−60 36	**PN** G290.1−00.4
11 06.5−54 49	He 2-61
11 09.2−48 03	Y-C 2-7
11 10.5−63 43	Sa 3-14
11 10.6−49 06	Y-C 2-8
11 13.8−48 06	**PN** G286.5+11.6
11 14.8+55 01	**PN** G148.4+57.0
11 17.1−49 12	*PN?* Y-C 2-9
11 17.7−70 50	**PN** G295.3−09.3
11 18.1−70 38	*PN?* Wray 17-87
11 18.2−52 10	**PN** G288.7+08.1
11 23.2−62 20	Wray 17-46
11 24.0−52 51	**PN** G289.8+07.7
11 26.7−34 22	**PN** G283.6+25.3
11 27.4−57 18	**PN** G291.7+03.7
11 28.0−59 58	**PN** G292.6+01.2
11 28.6−52 56	**PN** G290.5+07.9
11 28.8−60 07	**PN** G292.8+01.1
11 29.9−51 15	Y-C 2-12
11 30.8−59 17	**PN** G292.7+01.9
11 31.4−49 59	*PN?* Y-C 2-13
11 31.8−65 58	**PN** G294.9−04.3
11 33.3−57 06	**PN** G292.4+04.1
11 35.2−60 17	**PN** G293.6+01.2
11 38.1−62 16	Wray 16-97
11 39.2−68 52	**PN** G296.4−06.9
11 39.3−68 46	*PN?* Wray 16-99
11 41.6−62 29	**PN** G294.9−00.6
11 44.6−61 12	*PN?* Wray 17-47
11 45.7−56 21	*PN?* Wray 17-48
11 47.6−51 28	*PN?* Wray 17-49
11 48.6−65 09	**PN** G296.3−03.0
11 50.3−57 11	**PN** G294.6+04.7
11 52.5−42 18	**PN** G291.4+19.2
11 53.1−50 51	**PN** G293.6+10.9
11 56.3−55 33	*PN?* Wray 16-102
11 56.3−57 12	*PN?* Wray 17-50
11 56.7−34 26	*PN?* MeWe 2-3
12 00.2−49 26	*PN?* Wray 16-103
12 00.4−65 48	*PN?* Wray 17-51
12 00.7−47 33	**PN** G294.1+14.4
12 03.5−54 24	*PN?* Wray 17-52
12 04.3−67 19	**PN** G298.3−04.8
12 08.4−64 12	**PN** G298.2−01.7
12 09.0−63 07	**PN** G298.1−00.7
12 09.2−58 43	**PN** G297.4+03.7
12 10.1−51 47	*PN?* Wray 17-53
12 15.3−63 39	He 2-79

α_{2000} δ_{2000}	Designation
12 16.5−49 12	*PN?* Wray 17-54
12 16.6−66 46	**PN** G299.4−04.1
12 17.4−54 36	*PN?* Wray 17-55
12 18.3+11 03	*PN?* K 2-4
12 19.1−37 08	*PN?* ESO 380-12
12 20.0−62 55	Wray 16-109
12 22.4−63 17	He 2-80
12 23.0−64 02	**PN** G299.8−01.3
12 23.9−60 13	**PN** G299.5+02.4
12 24.5−18 47	**PN** G294.1+43.6
12 28.6−65 19	*PN?* Wray 16-113
12 28.8−62 06	**PN** G300.2+00.6
12 28.8−63 45	**PN** G300.4−00.9
12 30.1−63 53	**PN** G300.5−01.1
12 30.4−66 14	**PN** G300.8−03.4
12 30.5−64 51	**PN** G300.7−02.0
12 30.9−44 14	**PN** G299.0+18.4
12 33.1+82 34	**PN** G123.6+34.5
12 33.2−27 49	**PN** G298.0+34.8
12 34.9−61 39	Wray 16-118
12 43.4−68 13	*PN?* Y-C 2-14
12 45.8−63 00	He 2-87
12 45.9−60 20	**PN** G302.2+02.5
12 45.9−64 10	**PN** G302.3−01.3
12 46.5−63 25	*PN?* Wray 17-56
12 48.5−63 50	**PN** G302.6−00.9
12 53.3−61 46	Wray 17-57
12 53.7−22 52	**PN** G303.6+40.0
12 55.6+25 53	**PN** G339.9+88.4
12 59.5+27 38	**PN** G049.3+88.1
13 00.7−56 53	**PN** G304.2+05.9
13 05.8−57 39	**PN** G304.8+05.1
13 08.8−67 39	**PN** G304.5−04.8
13 09.6−61 20	**PN** G305.1+01.4
13 10.1−63 11	He 2-91
13 10.3−59 45	*PN?* Wray 17-58
13 14.5−58 52	Sa 3-22
13 16.8−03 04	*PN?* Y-C 43
13 17.0−35 24	*PN?* ESO 382-29
13 19.5−66 09	**PN** G305.7−03.4
13 22.6−63 21	**PN** G306.4−00.6
13 24.4−57 31	**PN** G307.3+05.0
13 25.6−37 36	**PN** G310.3+24.7
13 26.1−61 15	*PN?* Wray 16-129
13 26.2−63 34	*PN?* Wray 17-60
13 28.1−54 42	**PN** G308.2+07.7
13 28.6−63 50	Th 2-B
13 33.7−65 58	**PN** G307.2−03.4
13 34.1−36 50	LoTr 6
13 34.2−75 46	**PN** G305.6−13.1
13 37.7−61 48	*PN?* Wray 17-62
13 37.7−64 01	*PN?* Wray 17-61

α_{2000} δ_{2000}	Designation
13 38.9−56 07	Ste 2
13 39.6−67 23	**PN G307.5−04.9**
13 40.4−62 07	*PN?* Wray 17-63
13 40.7−19 53	**PN G318.4+41.4**
13 41.1−64 16	ESO 097-03
13 42.6−61 23	**PN G309.0+00.8**
13 44.0−55 20	*PN?* Wray 16-134
13 44.0−60 50	**PN G309.2+01.3**
13 45.4−71 29	**PN G307.2−09.0**
13 49.6−61 32	Wray 16-136
13 51.1−51 12	**PN G312.3+10.5**
13 52.5−66 23	**PN G309.0−04.2**
13 53.4−58 58	Ste 3
13 53.4−60 34	**PN G310.4+01.3**
13 54.0−66 31	**PN G309.1−04.3**
13 54.5−64 59	**PN G309.5−02.9**
13 54.9−58 27	**PN G311.1+03.4**
13 55.8−59 23	**PN G311.0+02.4**
13 58.2−58 54	**PN G311.4+02.8**
14 00.3−65 25	*PN?* Wray 16-143
14 01.3−50 40	*PN?* MeWe 2-4
14 03.3−41 23	StWr 4-9
14 04.4−17 14	**PN G326.7+42.2**
14 05.6−64 41	**PN G310.7−02.9**
14 08.8−57 05	*PN?* Wray 16-145
14 08.8−62 30	*PN?* Wray 17-64
14 11.7−64 17	*PN?* Wray 16-146
14 11.9−51 26	**PN G315.4+09.4**
14 14.2−63 26	*PN?* He 2-106
14 15.4−67 32	**PN G310.8−05.9**
14 15.4−74 13	**PN G308.6−12.2**
14 15.6−74 07	*PN?* Wray 17-65
14 17.5−52 26	*PN?* MeWe 1-4
14 18.2−52 11	**PN G316.1+08.4**
14 18.7−63 07	**PN G312.6−01.8**
14 18.9−59 53	*PN?* Wray 17-66
14 19.0−67 29	*PN?* Wray 16-150
14 20.8−55 28	**PN G315.4+05.2**
14 22.0−55 02	**PN G315.7+05.5**
14 22.4−44 09	**PN G319.6+15.7**
14 31.1−61 21	Wray 16-154
14 33.1−60 55	*PN?* Wray 16-155
14 33.3−60 50	**PN G315.0−00.3**
14 34.8−22 26	*PN?* ESO 580-02
14 38.3−44 13	*PN?* K 1-24
14 40.5−52 35	**PN G319.2+06.8**
14 40.9−65 51	*PN?* Wray 17-67
14 41.3−61 20	**PN G315.7−01.2**
14 41.6−56 15	**PN G317.8+03.3**
14 44.9−23 48	Y-C 2-16
14 46.2−37 41	ESO 386-19
14 46.4−61 14	**PN G316.3−01.3**

α_{2000} δ_{2000}	Designation
14 46.6−50 23	**PN G321.0+08.3**
14 52.6−64 02	*PN?* Wray 16-158
14 55.4−24 05	*PN?* ESO 513-05
14 59.9−54 18	**PN G321.0+03.9**
15 00.6−40 49	*PN?* ESO 328-01
15 01.4−41 55	ESO 328-04
15 01.7−48 21	**PN G324.1+09.0**
15 04.1−60 53	**PN G318.3−02.0**
15 05.3−55 11	**PN G321.3+02.8**
15 05.3−57 32	Wray 16-160
15 05.5−60 49	*PN?* Wray 16-161
15 06.0−55 59	**PN G320.9+02.0**
15 06.0−61 21	**PN G318.3−02.5**
15 06.2−43 00	**PN G327.5+13.3**
15 07.1−57 48	Wray 16-166/167
15 08.3−23 15	*PN?* Y-C 2-17
15 08.7−61 44	**PN G318.4−03.0**
15 09.7−40 56	*PN?* ESO 328-27
15 10.7−64 40	**PN G317.1−05.7**
15 11.9−55 40	**PN G321.8+01.9**
15 12.8−38 07	**PN G331.3+16.8**
15 14.1−32 42	*PN?* ESO 449-02
15 16.8−45 39	**PN G327.8+10.0**
15 17.7−42 37	ESO 328-40
15 18.2−59 39	Wray 16-172
15 18.4−59 38	Wray 16-173
15 19.1−53 10	**PN G324.0+03.5**
15 19.5−57 22	Wray 16-174
15 21.1−57 57	*PN?* Wray 17-69
15 21.2−72 14	**PN G313.8−12.6**
15 22.3−23 38	**PN G342.1+27.5**
15 22.3−54 08	**PN G323.9+02.4**
15 23.6−53 51	**PN G324.2+02.5**
15 23.7−57 09	**PN G322.4−00.1**
15 24.7−51 37	*PN?* Wray 16-179
15 25.0−51 50	He 2-127
15 25.1−51 20	**PN G325.8+04.5**
15 25.5−52 51	**PN G325.0+03.2**
15 26.9−58 59	*PN?* Wray 17-70
15 27.4−62 31	ESO 135-09
15 30.3−61 02	**PN G321.0−03.8**
15 34.3−59 09	**PN G322.4−02.6**
15 37.2−71 55	**PN G315.1−13.0**
15 38.0−58 45	**PN G323.1−02.5**
15 42.0−56 37	**PN G324.8−01.1**
15 42.2−47 41	**PN G330.2+05.9**
15 43.0−39 20	**PN G335.5+12.4**
15 45.0−54 02	Wray 16-185
15 47.2−66 29	He 2-134
15 47.7−61 13	**PN G322.5−05.2**
15 47.8−35 28	*PN?* Wray 16-188
15 48.7−32 07	ESO 450-16

α_{2000} δ_{2000}	Designation
15 49.5−52 31	**PN** G328.2+01.3
15 49.9−24 26	Wray 17-71
15 50.5−23 34	*PN?* ESO 515-11
15 51.3−48 26	**PN** G330.9+04.3
15 51.3−48 45	**PN** G330.7+04.1
15 51.3−56 21	*PN?* VBe 2
15 51.7−51 31	**PN** G329.0+01.9
15 52.2−62 31	**PN** G322.1−06.6
15 53.0−56 24	**PN** G326.1−01.9
15 53.2−41 50	**PN** G335.4+09.2
15 53.5−48 43	*PN?* Wray 16-192
15 54.0−24 55	*PN?* ESO 515-16
15 54.8−55 30	He 2-139
15 55.1−51 24	**PN** G329.5+01.7
15 56.0−66 09	**PN** G320.1−09.6
15 57.1−32 28	*PN?* ESO 450-26
15 57.9−25 55	*PN?* ESO 515-17
15 58.1−55 42	**PN** G327.1−01.8
15 58.8−32 00	*PN?* Y-C 2-19
15 59.1−31 12	ESO 451-03
15 59.2−58 24	**PN** G325.4−04.0
15 59.6−53 46	Wray 16-196
15 59.8−57 30	*PN?* Wray 16-197
16 00.0−27 14	ESO 515-19
16 00.0−55 55	**PN** G327.1−02.2
16 00.4−48 16	**PN** G332.2+03.5
16 01.0−55 06	**PN** G327.8−01.6
16 01.3−34 33	**PN** G341.6+13.7
16 01.3−64 48	ESO 100-07
16 02.2−41 34	**PN** G336.9+08.3
16 03.4−36 01	**PN** G340.8+12.3
16 04.4+40 41	**PN** G064.6+48.2
16 04.5−62 23	*PN?* Wray 17-72
16 06.4−34 31	*PN?* ESO 389-13
16 06.9−49 27	Wray 16-202
16 08.4−37 09	**PN** G340.8+10.8
16 08.5−39 03	*PN?* Wray 16-203
16 09.0−51 02	**PN** G331.4+00.5
16 09.7−30 54	**PN** G345.5+15.1
16 10.7−54 58	**PN** G328.9−02.4
16 11.7+12 04	**PN** G025.3+40.8
16 11.7−51 18	*PN?* Lo 14
16 12.4−66 39	ESO 100-12
16 12.6−46 38	Wray 16-206
16 12.6−54 24	**PN** G329.5−02.2
16 13.0−36 14	**PN** G342.1+10.8
16 13.5−34 36	**PN** G343.4+11.9
16 14.0−56 59	**PN** G327.9−04.3
16 14.4−54 48	**PN** G329.4−02.7
16 14.5−54 57	**PN** G329.3−02.8
16 15.3−49 13	**PN** G333.4+01.1
16 15.4−53 52	*PN?* Sa 1-4

α_{2000} δ_{2000}	Designation
16 15.7−59 54	**PN** G326.0−06.5
16 15.9−61 03	*PN?* Wray 17-73
16 16.7−51 18	*PN?* Wray 17-74
16 16.9−53 25	*PN?* Wray 17-75
16 17.1−66 38	ESO 100-16
16 17.2−51 59	**PN** G331.7−01.0
16 17.2−53 32	**PN** G330.6−02.1
16 19.3−57 58	**PN** G327.7−05.4
16 19.4−42 16	**PN** G338.8+05.6
16 19.5−50 38	Wray 16-214
16 20.9−50 02	Wray 16-216
16 21.1−00 16	**PN** G013.3+32.7
16 21.1−42 24	He 2-156
16 22.2−53 41	**PN** G331.0−02.7
16 23.3−31 45	**PN** G346.9+12.4
16 23.5−58 19	**PN** G327.8−06.1
16 23.9−46 42	**PN** G336.2+01.9
16 24.4−34 15	ESO 390-05
16 24.4−54 36	**PN** G330.6−03.6
16 24.6−53 23	**PN** G331.5−02.7
16 25.0−48 44	Pe 2-9
16 27.3−48 39	*PN?* He 3-1191
16 27.6+27 55	**PN** G047.0+42.4
16 27.9−54 01	**PN** G331.4−03.5
16 29.5−59 09	**PN** G327.8−07.2
16 29.9−53 23	**PN** G332.0−03.3
16 30.0−54 10	**PN** G331.5−03.9
16 30.4−46 03	**PN** G337.4+01.6
16 31.1−50 27	**PN** G334.3−01.4
16 31.5−40 15	**PN** G341.8+05.4
16 33.9−48 06	NGC 6164-5
16 34.1−35 05	**PN** G346.0+08.5
16 34.2−49 21	**PN** G335.4−01.1
16 34.8−42 04	*PN?* MeWe 2-5
16 35.4−53 50	**PN** G332.3−04.2
16 36.4−39 52	He 2-173
16 37.7−55 42	**PN** G331.1−05.7
16 38.1−48 43	*PN?* VERA 90
16 38.5−45 24	He 2-174
16 39.5−36 34	**PN** G345.6+06.7
16 39.6−52 49	**PN** G333.4−04.0
16 40.3+38 42	**PN** G061.9+41.3
16 41.5−45 13	He 2-176
16 41.6−27 59	*PN?* Anon. 16h38m
16 41.8−34 17	ESO 391-02
16 42.1−49 45	*PN?* VERA 104
16 42.6−38 54	**PN** G344.2+04.7
16 43.3−46 01	He 2-179
16 43.8−18 57	**PN** G000.1+17.2
16 44.4−40 03	**PN** G343.6+03.7
16 44.5+23 48	**PN** G043.1+37.7
16 44.6−62 37	Cn 1-2

α_{2000} δ_{2000}	Designation
16 44.8−28 04	**PN G352.9+11.4**
16 45.0−51 12	**PN G335.2−03.6**
16 45.5−46 11	*PN?* VBe 1
16 46.8−38 37	**PN G345.0+04.3**
16 47.6+64 13	*PN?* EGB 7
16 48.0−50 43	**PN G335.9−03.6**
16 48.6−21 01	**PN G359.1+15.1**
16 48.7−51 09	**PN G335.6−04.0**
16 48.8−35 01	**PN G348.0+06.3**
16 48.9−35 47	**PN G347.4+05.8**
16 49.5−39 21	**PN G344.8+03.4**
16 50.3−30 20	**PN G351.9+09.0**
16 50.4−39 08	**PN G345.0+03.4**
16 50.6−40 03	**PN G344.4+02.8**
16 51.1−32 23	*PN?* PM 1-115
16 51.3−26 00	Wray 16-237
16 53.4−44 53	He 2-183
16 53.5−42 39	**PN G342.7+00.7**
16 53.6−31 41	**PN G351.3+07.6**
16 54.5−38 44	**PN G345.9+03.0**
16 54.6−64 15	**PN G325.8−12.8**
16 55.9−29 52	*PN?* MyCn 26
16 57.4−41 38	**PN G343.9+00.8**
16 57.5−37 07	Vd 1-7
16 57.5−49 47	**PN G337.6−04.2**
16 59.6−51 42	**PN G336.3−05.6**
17 01.1−34 50	**PN G349.8+04.4**
17 01.3−70 06	**PN G321.3−16.7**
17 01.5−43 06	**PN G343.3−00.6**
17 01.5−47 46	MaC 1-3
17 01.6−21 50	**PN G000.3+12.2**
17 01.6−50 23	**PN G337.5−05.1**
17 02.0−78 27	ESO 023-08
17 02.3−33 10	**PN G351.2+05.2**
17 03.0−53 56	**PN G334.8−07.4**
17 03.8−33 30	**PN G351.1+04.8**
17 04.3−30 53	**PN G353.3+06.3**
17 04.6−33 59	**PN G350.9+04.4**
17 04.6−37 53	**PN G347.7+02.0**
17 05.2−30 32	**PN G353.7+06.3**
17 05.2−40 53	**PN G345.4+00.1**
17 05.5−10 06	K 2-8
17 05.5−32 32	**PN G352.1+05.1**
17 05.6−10 09	**PN G010.8+18.0**
17 05.7−43 57	**PN G343.0−01.7**
17 05.8−25 24	**PN G358.0+09.3**
17 06.2−52 30	**PN G336.2−06.9**
17 06.4−44 13	**PN G342.9−02.0**
17 06.9−09 47	*PN?* K 2-8
17 07.0−29 38	*PN?* Te 48
17 07.0−42 41	**PN G344.2−01.2**
17 07.4−34 05	H 2-2

α_{2000} δ_{2000}	Designation
17 07.5−44 23	*PN?* Wray 16-251
17 07.8−25 04	*PN?* Te 26
17 08.3−25 14	*PN?* Te 29
17 09.0−56 55	**PN G332.9−09.9**
17 09.6−41 36	H 2-3
17 09.6−52 13	**PN G336.8−07.2**
17 10.2−32 59	*PN?* Wray 16-255
17 10.5−41 53	**PN G345.2−01.2**
17 10.7−27 09	**PN G357.2+07.4**
17 11.4−39 30	*PN?* RPZM 2-3
17 11.5−47 25	**PN G340.9−04.6**
17 11.7−30 29	*PN?* PM 1-130
17 11.8−55 24	**PN G334.3−09.3**
17 12.2−32 38	H 2-4
17 12.4−23 23	*PN?* NeVe 1
17 12.5−26 26	**PN G358.0+07.5**
17 12.6−35 43	*PN?* RPZM 2-5
17 12.7−25 44	**PN G358.6+07.8**
17 12.9−03 16	**PN G018.0+20.1**
17 13.6−33 42	*PN?* PM 1-133
17 13.7−37 06	**PN G349.5+01.0**
17 13.8+49 16	**PN G075.7+35.8**
17 14.0−24 49	*PN?* Te 35
17 14.1−12 55	**PN G009.6+14.8**
17 14.1−31 20	**PN G354.2+04.3**
17 14.7−33 25	**PN G352.6+03.0**
17 14.8−35 36	*PN?* RPZM 2-7
17 15.3−31 34	H 2-5
17 15.8−35 11	*PN?* RPZM 2-9
17 15.8−39 33	*PN?* PM 1-135
17 16.4−33 33	*PN?* PM 1-136
17 16.7−27 52	*PN?* RPZM 2-46
17 16.8−24 59	*PN?* Te 40
17 17.2−53 36	ESO 180-05
17 17.3−29 00	**PN G356.5+05.1**
17 17.9−30 02	*PN?* Sa 3-43
17 18.1−30 56	*PN?* PBOZ 17
17 18.3−26 22	*PN?* TeJu 14
17 18.4−39 19	H 2-6
17 18.5−37 58	*PN?* PBZ 1
17 18.7−38 17	*PN?* RPZM 2-11
17 18.9−31 39	**PN G354.5+03.3**
17 18.9−56 54	ESO 180-06
17 19.1−30 54	Th 3-5
17 19.2−25 17	**PN G359.8+06.9**
17 19.3−31 13	**PN G354.9+03.5**
17 19.5−45 53	**PN G342.9−04.9**
17 19.7−32 30	*PN?* PM 1-140
17 19.8−39 11	*PN?* He 3-1379
17 20.4−24 52	**PN G000.3+06.9**
17 20.6−29 01	**PN G356.9+04.5**
17 20.8−51 45	**PN G338.1−08.3**

α_{2000} δ_{2000}	Designation
17 21.0−29 23	Th 3-7
17 21.1−29 03	**PN** G356.9+04.4
17 21.2−27 11	**PN** G358.5+05.4
17 21.3−22 19	**PN** G002.6+08.1
17 21.5−30 21	**PN** G355.9+03.6
17 21.6−28 55	**PN** G357.1+04.4
17 22.3−38 29	**PN** G349.3−01.1
17 22.5−27 09	**PN** G358.7+05.2
17 22.6−32 14	Th 3-8
17 22.6−52 47	**PN** G337.4−09.1
17 22.7−31 40	*PN?* PM 1-143
17 22.9−25 25	*PN?* Te 67
17 23.4−28 59	**PN** G357.3+04.0
17 23.9−28 59	*PN?* PBOZ 2
17 24.0−25 59	**PN** G359.8+05.6
17 24.0−31 02	Th 3-9
17 24.2−28 47	*PN?* Te 68
17 24.3−39 02	*PN?* RPZM 2-14
17 24.4−31 43	**PN** G355.1+02.3
17 24.5−34 42	*PN?* Wray 16-269
17 24.6−29 24	**PN** G357.1+03.6
17 24.7−28 44	*PN?* Te 69
17 24.7−30 52	**PN** G355.9+02.7
17 24.7−40 52	*PN?* RPZM 2-15
17 24.8−21 34	**PN** G003.7+07.9
17 24.9−28 06	**PN** G358.2+04.2
17 25.0−30 43	*PN?* PBOZ 3
17 25.1−29 45	**PN** G356.8+03.3
17 25.1−59 32	*PN?* StWr 2-48
17 25.3−26 13	**PN** G359.8+05.2
17 25.3−30 41	**PN** G356.1+02.7
17 25.7−26 12	**PN** G359.9+05.1
17 25.7−26 58	**PN** G359.2+04.7
17 26.0−29 22	**PN** G357.3+03.3
17 26.2−44 11	**PN** G345.0−04.9
17 26.4−30 46	*PN?* PBOZ 18
17 26.4−35 02	**PN** G352.6+00.1
17 26.6−16 48	**PN** G007.9+10.1
17 26.9−27 41	**PN** G358.8+04.1
17 26.9−34 03	*PN?* RPZM 2-17
17 26.9−40 11	*PN?* PM 1-147
17 27.0−29 16	**PN** G357.5+03.2
17 27.0−34 02	*PN?* RPZM 2-18
17 27.2−27 44	**PN** G358.8+04.0
17 27.3−28 28	**PN** G358.2+03.6
17 27.4−29 21	**PN** G357.5+03.1
17 27.5−28 31	**PN** G358.2+03.5
17 27.5−29 03	Th 3-17
17 27.6−25 22	*PN?* PBOZ 5
17 27.8−28 11	**PN** G358.5+03.7
17 27.8−46 56	**PN** G342.8−06.6
17 27.9−22 57	**PN** G002.9+06.5

α_{2000} δ_{2000}	Designation
17 28.1−24 25	**PN** G001.7+05.7
17 28.1−39 54	*PN?* IRAS 17245-3951
17 28.3−37 05	*PN?* RPZM 2-19
17 28.4−28 39	Th 3-18
17 28.5−35 08	**PN** G352.8−00.2
17 28.6−13 26	**PN** G011.1+11.5
17 28.6−24 51	**PN** G001.4+05.3
17 28.7−28 27	**PN** G358.4+03.3
17 28.8−29 06	Ap 1-1
17 28.8−30 08	**PN** G357.0+02.4
17 29.0−19 16	**PN** G006.1+08.3
17 29.1−15 13	**PN** G009.6+10.5
17 29.1−29 14	Ap 1-2
17 29.1−29 43	Th 3-20
17 29.2−42 32	*PN?* Sa 2-202
17 29.3−23 46	**PN** G002.4+05.8
17 29.4−25 49	**PN** G000.7+04.7
17 29.4−26 26	**PN** G000.1+04.3
17 29.5−29 47	Al 2-D
17 29.7−28 41	**PN** G358.3+03.0
17 29.7−29 33	**PN** G357.6+02.6
17 29.9−26 11	*PN?* PM 1-151
17 30.0−27 59	**PN** G358.9+03.4
17 30.0−30 39	Th 3-21
17 30.1−45 23	**PN** G344.4−06.1
17 30.2−26 21	*PN?* RPZM 2-21
17 30.2−27 30	**PN** G359.3+03.6
17 30.4−29 10	**PN** G358.0+02.6
17 30.5−28 36	**PN** G358.5+02.9
17 30.6−21 29	**PN** G004.5+06.8
17 30.7−28 04	**PN** G358.9+03.2
17 30.8−27 06	**PN** G359.8+03.7
17 30.9−30 17	**PN** G357.1+01.9
17 31.0−26 59	Th 3-28
17 31.0−31 01	**PN** G356.5+01.5
17 31.1−30 11	**PN** G357.2+02.0
17 31.2−28 15	**PN** G358.8+03.0
17 31.2−28 23	Ap 1-3
17 31.5−08 19	**PN** G016.0+13.5
17 31.8−28 42	**PN** G358.5+02.6
17 32.1−24 45	MaC 1-5
17 32.1−27 04	Ap 1-4
17 32.3−37 58	**PN** G350.8−02.4
17 32.3−39 51	**PN** G349.2−03.5
17 32.4−28 15	**PN** G359.0+02.8
17 32.5−29 05	Th 3-29
17 32.8−30 00	**PN** G357.6+01.7
17 32.8−40 58	**PN** G348.4−04.1
17 33.0−36 44	**PN** G351.9−01.9
17 33.2−28 20	Ap 1-5
17 33.3−30 27	**PN** G357.2+01.4
17 33.4−27 34	*PN?* Te 677

α_{2000} δ_{2000}	Designation
17 33.4−35 11	*PN?* PM 1-156
17 33.6−21 46	**PN** G004.6+06.0
17 33.7−28 07	Th 3-30
17 34.2−27 56	**PN** G359.5+02.6
17 34.3−19 09	M 1-21
17 34.3−29 29	Th 3-31
17 34.4−22 53	**PN** G003.8+05.3
17 34.4−38 09	*PN?* Wray 16-287
17 34.4−51 03	ESO 228-05
17 34.5−54 29	**PN** G336.9−11.5
17 34.9−26 36	**PN** G000.7+03.2
17 35.0−20 46	*PN?* PBOZ 22
17 35.0−25 24	*PN?* PBOZ 21
17 35.2−18 34	**PN** G007.5+07.4
17 35.2−29 03	**PN** G358.6+01.8
17 35.3−28 07	**PN** G359.4+02.3
17 35.4−20 57	**PN** G005.5+06.1
17 35.4−29 45	H 1-25
17 35.6−27 24	**PN** G000.1+02.6
17 35.6−28 07	*PN?* RPZM 2-25
17 35.7−30 21	**PN** G357.6+01.0
17 35.7−40 12	**PN** G349.3−04.2
17 35.7−47 00	**PN** G343.5−07.8
17 35.8−27 43	**PN** G359.8+02.4
17 36.0−24 26	**PN** G002.6+04.2
17 36.1−49 26	**PN** G341.5−09.1
17 36.2−28 01	**PN** G359.6+02.2
17 36.3−24 52	*PN?* PBOZ 23
17 36.3−33 26	Wray 16-292
17 36.4−21 31	**PN** G005.2+05.6
17 36.4−32 53	*PN?* RPZM 2-26
17 36.4−34 44	*PN?* RPZM 2-27
17 36.5−39 22	**PN** G350.1−03.9
17 37.0−29 40	**PN** G358.3+01.2
17 37.4−18 47	**PN** G007.6+06.9
17 37.8−32 15	*PN?* Th 3-34
17 37.9−25 21	**PN** G002.1+03.3
17 38.0−31 41	*PN?* RPZM 2-28
17 38.2−19 38	**PN** G007.0+06.3
17 38.2−27 20	*PN?* PM 1-165
17 38.4+12 41	*PN?* Y-C 44
17 38.5−22 09	**PN** G004.9+04.9
17 38.7−28 43	**PN** G359.3+01.4
17 38.8−23 54	ESO 520-12
17 39.0−18 18	**PN** G008.2+06.8
17 39.0−28 57	**PN** G359.2+01.2
17 39.2−25 38	Wray 16-294
17 39.3−28 15	LuSt 1
17 39.3−28 47	Th 3-36
17 39.3−44 10	**PN** G346.3−06.8
17 39.4−27 16	ESO 520-13
17 39.9−21 14	**PN** G005.8+05.1

α_{2000} δ_{2000}	Designation
17 40.1−24 26	**PN** G003.1+03.4
17 40.1−30 19	*PN?* PBOZ 7
17 40.3−22 19	**PN** G005.0+04.4
17 40.3−26 44	**PN** G001.2+02.1
17 40.5−27 01	**PN** G001.0+01.9
17 40.5−33 30	*PN?* RPZM 2-30
17 40.6−28 01	*PN?* PBOZ 26
17 40.6−28 42	*PN?* 19W43
17 40.6−30 16	*PN?* PBOZ 8
17 40.6−34 31	*PN?* Wray 16-295
17 40.7−27 44	*PN?* PBOZ 27
17 40.7−30 02	*PN?* RPZM 2-32
17 40.8−35 44	*PN?* RPZM 2-31
17 41.1−47 03	PC 18
17 41.5−33 10	*PN?* PM 1-171
17 41.6−22 13	**PN** G005.2+04.2
17 41.6−23 35	Pt 1
17 41.6−30 07	*PN?* Wray 17-96
17 41.7+03 07	**PN** G027.6+16.9
17 41.7−26 15	*PN?* RPZM 2-47
17 41.9−24 42	**PN** G003.1+02.9
17 42.0−15 56	**PN** G010.7+07.4
17 42.0−24 11	**PN** G003.6+03.1
17 42.3−30 27	Bl 3-5
17 42.3−30 28	*PN?* IRAS 17391-3026
17 42.5−25 45	**PN** G002.3+02.2
17 42.6+21 27	**PN** G045.6+24.3
17 42.7−29 52	**PN** G358.8−00.0
17 42.8−36 13	*PN?* RPZM 2-34
17 42.9−39 36	**PN** G350.5−05.0
17 43.1+12 21	*PN?* Y-C 45
17 43.3−31 46	*PN?* RPZM 2-35
17 43.4−30 54	*PN?* PBOZ 9
17 43.5−21 10	**PN** G006.3+04.4
17 43.6−27 58	*PN?* PBOZ 20
17 43.7−25 37	**PN** G002.6+02.1
17 44.2−32 02	*PN?* Wray 16-298
17 44.2−34 17	**PN** G355.2−02.5
17 44.3−27 58	*PN?* PBOZ 19
17 44.3−34 07	**PN** G355.4−02.4
17 44.5−24 13	*PN?* PBOZ 11
17 44.5−27 21	*PN?* PBOZ 10
17 44.7−15 45	**PN** G011.1+07.0
17 44.9−25 09	MaC 1-6
17 45.0+27 20	**PN** G051.9+25.8
17 45.1−38 09	**PN** G352.0−04.6
17 45.2−32 46	*PN?* RPZM 2-36
17 45.2−33 36	*PN?* RPZM 2-37
17 45.2−38 17	H 2-19
17 45.5−20 58	**PN** G006.8+04.1
17 45.5−25 38	**PN** G002.8+01.8
17 45.5−29 45	*PN?* RPZM 2-48

α_{2000} δ_{2000}	Designation
17 45.5−34 34	**PN** G355.1−02.9
17 45.5−38 40	He 2-275
17 45.5−44 54	**PN** G346.2−08.2
17 45.6−23 02	**PN** G005.0+03.0
17 45.6−46 05	**PN** G345.2−08.8
17 45.7−25 38	**PN** G002.8+01.7
17 45.7−29 43	*PN?* PBOZ 12
17 46.0−26 58	Bl 3-2
17 46.0−27 26	*PN?* PBOZ 13
17 46.0−30 12	**PN** G358.9−00.7
17 46.0−31 04	**PN** G358.2−01.1
17 46.1−34 04	**PN** G355.6−02.7
17 46.2−18 40	**PN** G008.8+05.2
17 46.3−20 14	**PN** G007.5+04.3
17 46.7−27 03	*PN?* PBOZ 14
17 46.8−33 09	**PN** G356.5−02.3
17 46.9−16 17	**PN** G011.0+06.2
17 47.0−23 21	*PN?* PBOZ 28
17 47.0−29 01	Bl 3-22
17 47.0−31 46	*PN?* RPZM 2-38
17 47.1−28 46	*PN?* 19W96
17 47.1−64 38	He 2-269
17 47.2−28 47	Bl 3-4
17 47.2−30 22	*PN?* PBOZ 15
17 47.4−32 50	H 2-21
17 47.5−24 13	*PN?* PBOZ 16
17 47.6−21 47	**PN** G006.3+03.3
17 47.6−22 06	**PN** G006.0+03.1
17 47.6−29 51	*PN?* RPZM 2-39
17 47.8−21 32	*PN?* PBOZ 29
17 47.8−32 21	Al 2-M
17 47.8−34 08	**PN** G355.7−03.0
17 47.9−30 00	**PN** G359.3−00.9
17 48.1−22 47	**PN** G005.5+02.7
17 48.2−28 01	Bl 3-11
17 48.3−16 29	**PN** G011.0+05.8
17 48.5−24 41	**PN** G003.9+01.6
17 48.6−22 17	**PN** G006.0+02.8
17 48.6−24 17	**PN** G004.3+01.8
17 48.8−26 44	**PN** G002.2+00.5
17 49.0−23 43	**PN** G004.8+02.0
17 49.0−34 22	**PN** G355.7−03.4
17 49.2−34 23	**PN** G355.7−03.5
17 49.3−20 01	**PN** G008.0+03.9
17 49.3−31 15	*PN?* RPZM 2-40
17 49.4−31 47	*PN?* RPZM 2-41
17 49.5−27 46	Bl 3-3
17 49.6−27 41	*PN?* Al 2-N
17 49.8−33 32	Ste 2-4
17 49.8−34 00	**PN** G356.1−03.3
17 49.8−37 01	**PN** G353.5−04.9
17 49.9−30 33	*PN?* RPZM 2-42

α_{2000} δ_{2000}	Designation
17 50.3−30 35	**PN** G359.1−01.7
17 50.3−30 58	Wray 16-312
17 50.4−19 54	*PN?* Th 4-4
17 50.4−29 25	**PN** G000.1−01.1
17 50.5−19 03	**PN** G009.0+04.1
17 50.6−27 38	*PN?* PBOZ 30
17 50.7−37 24	**PN** G353.2−05.2
17 50.7−39 17	**PN** G351.6−06.2
17 51.0−18 47	**PN** G009.3+04.1
17 51.0−22 20	H 2-28
17 51.2−34 55	**PN** G355.4−04.0
17 51.3−30 24	**PN** G359.3−01.8
17 51.4−31 14	MaC 1-7
17 51.7−31 36	**PN** G358.3−02.5
17 51.7−32 55	He 2-294
17 51.8−27 48	Bl 3-19
17 51.8−30 03	*PN?* RPZM 2-43
17 51.8−33 48	**PN** G356.5−03.6
17 51.9−60 23	**PN** G332.8−16.4
17 52.0−35 23	Wray 16-319
17 52.1−17 36	**PN** G010.4+04.5
17 52.1−30 05	**PN** G359.7−01.8
17 52.2−31 30	**PN** G358.5−02.5
17 52.4−21 51	**PN** G006.8+02.3
17 52.4−29 46	*PN?* Bl 3-14
17 52.6−29 07	**PN** G000.6−01.3
17 52.6−32 46	**PN** G357.4−03.2
17 52.7−21 15	Th 4-8
17 52.7−22 22	**PN** G006.4+02.0
17 52.8−30 50	**PN** G359.1−02.3
17 52.8−46 42	**PN** G345.3−10.2
17 53.0−25 27	*PN?* PM 1-186
17 53.0−31 19	Bl 3-6
17 53.0−34 38	**PN** G355.9−04.2
17 53.2−30 18	Bl L
17 53.3−32 41	**PN** G357.6−03.3
17 53.3−33 56	**PN** G356.5−03.9
17 53.4−29 17	**PN** G000.5−01.6
17 53.5+10 37	**PN** G036.0+17.6
17 53.6−21 59	**PN** G006.8+02.0
17 53.6−31 26	**PN** G358.7−02.7
17 53.6−32 59	**PN** G357.4−03.5
17 53.8−28 27	**PN** G001.3−01.2
17 53.8−28 59	**PN** G000.8−01.5
17 53.8−29 44	**PN** G000.2−01.9
17 54.2−60 50	*PN?* HaTr 7
17 54.3−15 56	**PN** G012.2+04.9
17 54.4+28 00	**PN** G053.3+24.0
17 54.4−12 48	**PN** G014.9+06.4
17 54.4−29 36	**PN** G000.4−01.9
17 54.6−28 13	**PN** G001.6−01.3
17 54.6−34 22	**PN** G356.2−04.4

α_{2000} δ_{2000}	Designation
17 54.7−25 25	*PN?* IRAS 17516-2525
17 54.9−28 49	**PN** G001.1−01.6
17 55.1−21 45	**PN** G007.2+01.8
17 55.1−31 12	**PN** G359.1−02.9
17 55.4−29 58	**PN** G000.1−02.3
17 55.6−30 34	**PN** G359.7−02.6
17 55.8−15 03	*PN?* Sa 3-96
17 55.9−14 07	MaC 1-9
17 55.9−22 59	**PN** G006.2+01.0
17 56.0−19 28	**PN** G009.3+02.8
17 56.0−28 14	**PN** G001.7−01.6
17 56.0−29 11	**PN** G000.9−02.0
17 56.0−31 38	MaC 1-8
17 56.2−32 38	**PN** G357.9−03.8
17 56.3−16 29	**PN** G011.9+04.2
17 56.4−29 38	**PN** G000.6−02.3
17 56.4−31 04	**PN** G359.3−03.1
17 56.6−43 03	**PN** G348.8−09.0
17 57.1−18 07	**PN** G010.6+03.2
17 57.3−21 42	M 3-18
17 57.3−34 10	**PN** G356.7−04.8
17 57.4−33 36	**PN** G357.2−04.5
17 57.7−30 02	**PN** G000.3−02.8
17 58.2−27 42	*PN?* PBOZ 32
17 58.2−29 44	**PN** G000.7−02.7
17 58.2−31 08	**PN** G359.4−03.4
17 58.2−31 43	**PN** G358.9−03.7
17 58.3−30 01	**PN** G000.4−02.9
17 58.3−33 48	**PN** G357.1−04.7
17 58.4−28 15	**PN** G002.0−02.0
17 58.4−29 21	**PN** G001.0−02.6
17 58.4−33 04	*PN?* Wray 17-104
17 58.5−27 37	**PN** G002.5−01.7
17 58.5−28 34	H 2-34
17 58.5−33 29	**PN** G357.4−04.6
17 58.6+66 38	**PN** G096.4+29.9
17 59.0−15 32	**PN** G013.1+04.1
17 59.0−32 22	**PN** G358.5−04.2
17 59.3−28 14	**PN** G002.1−02.2
17 59.3−30 03	**PN** G000.5−03.1
17 59.6−46 39	**PN** G345.9−11.2
17 59.9−31 55	**PN** G359.0−04.1
17 59.9−32 59	*PN?* Wray 16-344
18 00.2−17 40	**PN** G011.3+02.8
18 00.2−38 50	**PN** G352.9−07.5
18 00.3−34 28	**PN** G356.8−05.4
18 00.6−29 22	**PN** G001.2−03.0
18 01.0−28 16	**PN** G002.2−02.5
18 01.0−52 44	**PN** G340.4−14.1
18 01.1−14 30	**PN** G014.2+04.2
18 01.1−26 21	He 2-325
18 01.2−27 38	**PN** G002.8−02.2

α_{2000} δ_{2000}	Designation
18 01.2−31 22	*PN?* RPZM 2-44
18 01.3−31 11	*PN?* RPZM 2-45
18 01.4−33 18	**PN** G357.9−05.1
18 01.5−29 20	Ap 1-7
18 01.7−28 26	**PN** G002.2−02.7
18 01.7−33 15	**PN** G358.0−05.1
18 02.0−34 28	**PN** G356.9−05.8
18 02.3−30 14	**PN** G000.7−03.7
18 02.5−29 25	**PN** G001.4−03.4
18 02.5−35 13	**PN** G356.3−06.2
18 02.5−36 39	**PN** G355.1−06.9
18 02.8−32 10	**PN** G359.0−04.8
18 02.9−27 41	**PN** G003.0−02.6
18 02.9−31 24	**PN** G359.7−04.4
18 03.1−29 46	*PN?* ShWi 2-2
18 03.1−31 35	Wray 16-355
18 03.2−26 59	**PN** G003.6−02.3
18 03.3−27 06	**PN** G003.5−02.4
18 03.3−29 51	ShWi 2-3
18 03.4−32 42	H 1-49
18 03.6−29 46	*PN?* ShWi 2-4
18 03.7−26 43	**PN** G003.9−02.3
18 03.7−34 53	*PN?* Wray 16-358
18 03.9−29 51	**PN** G001.2−03.9
18 03.9−31 18	**PN** G359.9−04.5
18 03.9−32 42	**PN** G358.7−05.2
18 04.0−29 27	*PN?* ShWi 2-6
18 04.1−28 28	**PN** G002.4−03.2
18 04.1−31 39	**PN** G359.6−04.8
18 04.1−34 29	**PN** G357.1−06.1
18 04.5−28 22	Ap 1-8
18 04.5−28 38	**PN** G002.3−03.4
18 04.5−34 58	**PN** G356.7−06.4
18 04.5−43 24	ESO 280-02
18 04.6−20 37	*PN?* PBOZ 33
18 04.7−31 03	**PN** G000.2−04.6
18 04.9−32 54	**PN** G358.6−05.5
18 05.0−30 58	**PN** G000.3−04.6
18 05.0−37 38	**PN** G354.4−07.8
18 05.1−29 19	**PN** G001.8−03.8
18 05.2−19 50	**PN** G010.1+00.7
18 05.4−25 13	**PN** G005.4−01.9
18 05.4−28 22	**PN** G002.6−03.4
18 06.0+00 23	**PN** G028.0+10.2
18 06.0−26 30	**PN** G004.3−02.6
18 06.0−28 17	H 2-38
18 06.1−28 41	**PN** G002.4−03.7
18 06.5−27 44	Sa 3-119
18 06.7−26 55	**PN** G004.0−03.0
18 06.8−27 06	**PN** G003.9−03.1
18 07.0−08 56	**PN** G019.8+05.6
18 07.1−29 13	**PN** G002.1−04.2

α_{2000} δ_{2000}	Designation
18 07.1−29 36	SS 129
18 07.1−30 34	**PN** G000.9−04.8
18 07.2−29 41	**PN** G001.7−04.4
18 07.3−31 43	**PN** G359.9−05.4
18 07.3−51 01	**PN** G342.5−14.3
18 07.5−13 29	**PN** G015.9+03.3
18 07.7−36 06	He 2-349
18 07.9−25 24	**PN** G005.5−02.5
18 07.9−29 45	**PN** G001.7−04.6
18 08.0−26 54	**PN** G004.2−03.2
18 08.1−28 24	**PN** G002.9−03.9
18 08.4−22 17	**PN** G008.3−01.1
18 08.4−31 37	**PN** G000.1−05.6
18 09.0−41 48	**PN** G351.0−10.4
18 09.2−25 05	**PN** G005.9−02.6
18 09.2−26 02	**PN** G005.1−03.0
18 09.5−24 12	**PN** G006.7−02.2
18 09.5−52 34	ESO 182-04
18 09.8−35 44	**PN** G356.6−07.8
18 09.9−33 20	He 2-354
18 10.2−27 17	**PN** G004.1−03.8
18 10.4−10 29	**PN** G018.9+04.1
18 10.4−28 09	Ap 1-9
18 10.5−28 19	**PN** G003.2−04.4
18 10.6−27 51	ESO 456-64
18 10.6−39 53	*PN?* Wray 16-376
18 10.6−48 26	*PN?* StWr 2-37
18 10.7−27 58	Ap 1-10
18 11.0−28 33	Ap 1-11
18 11.1−28 59	**PN** G002.7−04.8
18 11.5+27 05	*PN?* IRAS 18095+2704
18 11.5−27 46	**PN** G003.8−04.3
18 11.6−28 23	**PN** G003.3−04.6
18 11.8−18 46	**PN** G011.7−00.0
18 11.9−28 11	**PN** G003.5−04.6
18 12.1+06 51	**PN** G034.6+11.8
18 12.1−33 52	**PN** G358.5−07.3
18 12.2−10 43	**PN** G018.9+03.6
18 12.2−33 11	Wray 16-384
18 12.4−26 33	**PN** G005.0−03.9
18 12.4−27 29	**PN** G004.2−04.3
18 12.4−27 52	**PN** G003.8−04.5
18 12.6−24 50	**PN** G006.5−03.1
18 12.6−27 58	**PN** G003.7−04.6
18 12.6−32 06	ESO 456-73
18 12.7−25 44	**PN** G005.7−03.6
18 12.8−28 20	**PN** G003.4−04.8
18 12.9−41 30	**PN** G351.7−10.9
18 13.0−29 25	**PN** G002.5−05.4
18 13.3−25 30	**PN** G006.0−03.6
18 13.3−32 20	**PN** G000.0−06.8
18 13.7−26 09	**PN** G005.5−04.0

α_{2000} δ_{2000}	Designation
18 13.8−19 04	**PN** G011.7−00.6
18 14.3−04 59	**PN** G024.2+05.9
18 14.3−25 21	**PN** G006.2−03.7
18 14.4−42 51	Wray 16-391
18 14.5−24 44	**PN** G006.8−03.4
18 14.6−29 49	He 2-370
18 14.8−22 44	**PN** G008.6−02.6
18 14.8−32 37	**PN** G359.8−07.2
18 15.1−30 16	**PN** G002.0−06.2
18 15.2−06 57	**PN** G022.5+04.8
18 15.3−10 10	**PN** G019.7+03.2
18 15.4−30 32	CnMy 17
18 15.5−21 35	He 2-374
18 15.8−27 54	He 2-376
18 16.2−27 15	**PN** G004.8−05.0
18 16.2−30 52	**PN** G001.5−06.7
18 16.3−20 27	**PN** G010.8−01.8
18 16.3−27 05	**PN** G004.9−04.9
18 16.3−30 08	**PN** G002.2−06.3
18 16.5+01 53	K 4-1
18 16.9−26 23	**PN** G005.6−04.7
18 17.3−23 59	**PN** G007.8−03.7
18 17.3−28 10	Wray 16-401
18 17.5+10 09	**PN** G038.2+12.0
18 17.6−31 57	**PN** G000.7−07.4
18 17.7−28 17	**PN** G004.0−05.8
18 17.7−29 08	**PN** G003.2−06.2
18 17.8−06 48	**PN** G023.0+04.3
18 17.8−24 03	*PN?* Sp 2-128
18 18.2−25 38	**PN** G006.4−04.6
18 18.2−57 11	*PN?* He 2-375
18 18.4−23 25	**PN** G008.4−03.6
18 18.5−45 59	**PN** G348.0−13.8
18 18.6−28 08	**PN** G004.2−05.9
18 18.6−31 55	**PN** G000.8−07.6
18 18.7−28 09	K 2-9
18 19.4−26 35	**PN** G005.7−05.3
18 20.1−24 15	**PN** G007.8−04.4
18 21.0−26 48	He 2-390
18 21.4−06 02	**PN** G024.1+03.8
18 21.4−08 32	*PN?* MaC 1-12
18 21.8+64 22	**PN** G094.0+27.4
18 22.0−24 11	**PN** G008.1−04.7
18 22.5−24 09	**PN** G008.2−04.8
18 22.6−30 43	**PN** G002.3−07.8
18 22.9−26 49	**PN** G005.8−06.1
18 23.1−19 17	**PN** G012.6−02.7
18 23.1−29 43	**PN** G003.3−07.5
18 23.4+03 36	**PN** G032.9+07.8
18 23.5−21 53	He 2-396
18 24.1−11 07	**PN** G019.9+00.9
18 24.7+02 29	**PN** G032.1+07.0

α_{2000} δ_{2000}	Designation
18 24.9−25 42	**PN G007.0−06.0**
18 25.0+00 52	**PN G030.6+06.2**
18 25.0−01 31	**PN G028.5+05.1**
18 25.1−22 35	**PN G009.8−04.6**
18 25.7−23 12	**PN G009.4−05.0**
18 26.1−18 12	**PN G013.8−02.8**
18 26.7−02 43	**PN G027.6+04.2**
18 26.7−40 30	**PN G353.7−12.8**
18 27.2+01 14	**PN G031.2+05.9**
18 27.8+14 29	**PN G043.3+11.6**
18 27.8−37 16	**PN G356.8−11.7**
18 27.9−15 33	**PN G016.4−01.9**
18 28.0−26 07	**PN G007.0−06.8**
18 28.6−08 43	**PN G022.5+01.0**
18 28.9−24 32	H 2-47
18 29.1−23 51	ESO 522-29
18 29.2−17 27	**PN G014.9−03.1**
18 29.2−21 47	**PN G011.0−05.1**
18 29.2−31 30	**PN G002.2−09.4**
18 29.3−15 08	**PN G016.9−02.0**
18 29.5−19 06	**PN G013.4−03.9**
18 30.0−19 41	**PN G013.0−04.3**
18 30.2−13 54	M 1-49
18 30.2−16 45	**PN G015.6−03.0**
18 30.3−11 37	**PN G020.2−00.6**
18 30.5−07 28	**PN G023.9+01.2**
18 30.5−14 29	*PN?* OH/IR 17.7-2.0
18 30.6−19 15	*PN?* V-V 3-4
18 31.0+02 26	**PN G032.7+05.6**
18 31.3+26 56	**PN G055.4+16.0**
18 31.8+04 05	**PN G034.3+06.2**
18 31.9−24 46	**PN G008.6−07.0**
18 32.2+07 14	K 4-2
18 32.5−28 43	**PN G005.1−08.9**
18 32.6−25 08	**PN G008.3−07.3**
18 32.7−10 06	**PN G021.8−00.4**
18 33.1−13 44	**PN G018.6−02.2**
18 33.2+08 18	K 1-25
18 33.2−10 15	**PN G021.7−00.6**
18 33.3+00 12	**PN G031.0+04.1**
18 33.3−18 17	**PN G014.6−04.3**
18 33.4−04 58	VV 1-8
18 33.5−11 07	**PN G020.9−01.1**
18 33.5−46 15	ESO 281-07
18 33.8+05 53	K 4-3
18 33.9−22 39	**PN G010.7−06.4**
18 34.0+14 49	**PN G044.3+10.4**
18 34.0−14 52	**PN G017.7−02.9**
18 34.2−02 28	**PN G028.7+02.7**
18 34.2−13 12	**PN G019.2−02.2**
18 34.9+05 05	K 3-8
18 34.9−22 43	**PN G010.7−06.7**

α_{2000} δ_{2000}	Designation
18 34.9−27 06	**PN G006.8−08.6**
18 35.4−00 14	**PN G030.8+03.4**
18 35.8−17 36	**PN G015.4−04.5**
18 36.1−17 00	**PN G016.0−04.3**
18 36.4+10 19	Y-C 46
18 36.4−23 55	**PN G009.8−07.5**
18 36.5−19 19	**PN G014.0−05.5**
18 36.6−21 49	**PN G011.7−06.6**
18 37.1−06 30	*PN?* WhBe 1
18 37.2−19 02	**PN G014.3−05.5**
18 37.4−24 27	*PN?* Y-C 47
18 37.6−03 06	**PN G028.5+01.6**
18 37.8−17 06	**PN G016.1−04.7**
18 39.4−04 20	**PN G027.7+00.7**
18 39.4−30 41	**PN G004.0−11.1**
18 40.1+14 12	K 3-10
18 40.3−10 40	**PN G022.1−02.4**
18 40.4−08 44	K 3-9
18 40.4−23 00	*PN?* V 348 Sgr
18 41.1+26 56	K 2-6
18 41.1−08 56	**PN G023.8−01.7**
18 41.2−13 12	MaC 1-14
18 41.3−15 34	**PN G017.9−04.8**
18 41.9−20 32	*PN?* Y-C 2-26
18 42.1−06 41	**PN G025.9−00.9**
18 42.6−21 18	He 2-417
18 42.8−03 13	**PN G029.0+00.4**
18 43.0−11 07	**PN G022.0−03.1**
18 43.1−00 17	**PN G031.7+01.7**
18 43.3−09 05	**PN G023.9−02.3**
18 43.6−13 45	**PN G019.7−04.5**
18 44.0−19 55	**PN G014.2−07.3**
18 44.1−12 13	**PN G021.2−03.9**
18 44.2+06 47	K 4-4
18 44.2−30 18	**PN G004.7−11.8**
18 44.7+06 07	K 3-12
18 44.7−25 22	**PN G009.4−09.8**
18 44.9−03 21	**PN G029.2−00.0**
18 45.4+02 01	**PN G034.0+02.2**
18 45.5−06 57	**PN G026.0−01.8**
18 45.6−06 18	**PN G026.6−01.5**
18 45.6−20 35	**PN G013.8−07.9**
18 45.9−14 28	**PN G019.4−05.3**
18 45.9−33 21	**PN G002.0−13.4**
18 46.4−07 15	**PN G025.9−02.1**
18 46.6−08 28	**PN G024.8−02.7**
18 46.6−23 27	**PN G011.3−09.4**
18 47.5−06 54	**PN G026.3−02.2**
18 47.8−09 09	**PN G024.3−03.3**
18 48.2−25 29	**PN G009.6−10.6**
18 48.3+01 43	K 4-6
18 48.5+10 36	**PN G042.0+05.4**

α_{2000} δ_{2000}	Designation
18 48.6−06 41	K 4-7
18 48.8−05 56	**PN** G027.3−02.1
18 49.1−19 34	*PN?* Y-C 2-29
18 49.5−00 38	*PN?* TDC 2
18 49.8+20 51	**PN** G051.4+09.6
18 50.0+35 15	**PN** G064.9+15.5
18 50.1−05 15	Sa 3-149
18 50.4−01 40	**PN** G031.3−00.5
18 50.4−22 34	**PN** G012.5−09.8
18 50.7+12 37	**PN** G044.1+05.8
18 50.7−01 03	**PN** G031.9−00.3
18 50.7−07 02	**PN** G026.5−03.0
18 50.7−13 31	**PN** G020.7−05.9
18 51.5−13 11	**PN** G021.1−05.9
18 51.7+09 55	**PN** G041.8+04.4
18 53.0+12 16	**PN** G044.0+05.2
18 53.3−24 23	Wray 16-421
18 53.5−06 29	**PN** G027.3−03.4
18 53.6+33 02	**PN** G063.1+13.9
18 53.7+28 32	K 4-9
18 54.0−06 26	**PN** G027.4−03.5
18 54.2−04 39	Pe 2-16
18 54.3−08 54	**PN** G025.3−04.6
18 54.3−10 05	**PN** G024.2−05.2
18 54.6−08 50	**PN** G025.4−04.7
18 54.9+06 03	**PN** G038.7+01.9
18 55.5−21 50	**PN** G013.7−10.6
18 55.6−32 16	**PN** G003.9−14.9
18 56.3+07 07	**PN** G039.8+02.1
18 56.6+10 52	**PN** G043.1+03.8
18 57.2−15 29	*PN?* MaC 1-15
18 57.3−06 00	**PN** G028.2−04.0
18 57.8−05 28	**PN** G028.7−03.9
18 58.1+01 37	**PN** G035.1−00.7
18 58.4−01 04	**PN** G032.7−02.0
18 58.4−39 54	ESO 337-04
18 58.9−00 33	**PN** G033.2−01.9
18 58.9−05 22	Th 1-I
18 59.1+20 37	**PN** G052.2+07.6
18 59.3+48 28	**PN** G078.5+18.7
19 00.5+38 21	**PN** G068.7+14.8
19 00.6−02 12	**PN** G032.0−03.0
19 01.0+02 09	**PN** G035.9−01.1
19 01.0−18 12	**PN** G017.6−10.2
19 01.4−11 58	**PN** G023.3−07.6
19 01.5−24 34	ESO 524-02
19 01.6−01 19	**PN** G032.9−02.8
19 02.2−01 49	**PN** G032.5−03.2
19 02.3+10 17	**PN** G043.3+02.2
19 02.3−21 27	**PN** G014.7−11.8
19 02.6−00 27	**PN** G033.8−02.6
19 02.7+14 29	**PN** G047.1+04.1

α_{2000} δ_{2000}	Designation
19 03.0+03 02	**PN** G036.9−01.1
19 03.1+14 07	**PN** G046.8+03.8
19 03.6+08 44	K 4-11
19 03.6+19 21	**PN** G051.5+06.1
19 03.7+16 27	K 4-12
19 03.8+05 10	*PN?* HaTr 12
19 04.2+10 11	K 4-13
19 04.5+17 57	**PN** G050.4+05.2
19 04.6+01 23	K 4-14
19 04.9+00 20	K 4-15
19 04.9+15 48	**PN** G048.5+04.2
19 05.6−33 12	**PN** G003.8−17.1
19 05.7−25 24	*PN?* HDW 10
19 05.9−05 59	*PN?* HuLo 1
19 05.9−05 59	**PN** G029.2−05.9
19 06.4+13 45	**PN** G046.8+02.9
19 06.8+06 24	**PN** G040.3−00.4
19 08.0+02 21	**PN** G036.9−02.6
19 08.7+22 59	**PN** G055.3+06.6
19 09.2+07 06	**PN** G041.2−00.6
19 09.4+12 01	**PN** G045.6+01.5
19 09.4−01 09	*PN?* K 4-17
19 09.8+11 05	K 3-23
19 09.8−55 35	**PN** G341.2−24.6
19 10.5−02 21	**PN** G033.0−05.3
19 10.6+02 50	Ap 3-1
19 11.1+30 33	**PN** G062.4+09.5
19 11.5+16 52	**PN** G050.1+03.3
19 12.1+02 38	K 4-18
19 12.1+15 09	**PN** G048.7+02.3
19 13.0−03 32	K 2-10
19 13.0−05 21	MaC 1-17
19 13.1+02 53	**PN** G037.9−03.4
19 13.1+15 47	**PN** G049.4+02.4
19 13.4+03 25	**PN** G038.4−03.3
19 13.5+02 18	K 3-25
19 13.5+07 27	K 4-20
19 13.6+04 38	**PN** G039.5−02.7
19 13.6+14 59	**PN** G048.7+01.9
19 13.9+03 38	**PN** G038.7−03.3
19 13.9−06 19	**PN** G029.8−07.8
19 14.1+17 32	**PN** G051.0+03.0
19 14.3+03 35	K 2-11
19 14.4−32 34	**PN** G005.2−18.6
19 14.5+10 51	K 4-21
19 14.5+28 41	**PN** G061.0+08.0
19 14.5−02 42	**PN** G033.1−06.3
19 14.7+00 14	**PN** G035.7−05.0
19 15.0+17 23	**PN** G051.0+02.8
19 15.3+02 33	K 3-28
19 15.5+14 04	**PN** G048.1+01.1
19 16.5+05 13	**PN** G040.4−03.1

α_{2000} δ_{2000}	Designation
19 16.5−09 03	**PN G027.6−09.6**
19 17.1+25 37	**PN G058.6+06.1**
19 17.1−18 02	**PN G019.4−13.6**
19 17.4−39 37	**PN G358.3−21.6**
19 17.8+02 49	K 4-22
19 18.3+01 47	**PN G037.5−05.1**
19 18.3−11 06	**PN G025.9−10.9**
19 18.4−01 36	**PN G034.5−06.7**
19 18.5+06 32	**PN G041.8−02.9**
19 18.6+15 00	K 4-23
19 18.7+19 34	**PN G053.3+03.0**
19 19.0+19 02	**PN G052.9+02.7**
19 19.2+46 15	**PN G077.6+14.7**
19 19.3+17 12	**PN G051.3+01.8**
19 19.3−12 15	**PN G025.0−11.6**
19 19.6+22 35	K 3-32
19 21.0+07 37	**PN G043.0−03.0**
19 21.2+14 07	K 4-24
19 22.0−04 12	*PN?* Anon. 19h19m
19 22.2−31 31	**PN G006.8−19.8**
19 22.4+10 41	**PN G045.9−01.9**
19 22.5+00 13	K 4-25
19 22.9+01 31	**PN G037.8−06.3**
19 23.4+21 08	**PN G055.2+02.8**
19 23.6+00 38	K 4-26
19 23.8+21 07	**PN G055.3+02.7**
19 24.0+25 19	**PN G059.0+04.6**
19 24.4+09 54	**PN G045.4−02.7**
19 26.4+13 20	**PN G048.7−01.5**
19 26.6+21 10	**PN G055.6+02.1**
19 27.0−06 35	**PN G031.0−10.8**
19 27.0−26 42	*PN?* ESO 525-06
19 27.7+10 24	**PN G046.3−03.1**
19 27.7+21 30	**PN G056.0+02.0**
19 28.2+12 20	**PN G048.0−02.3**
19 30.3+14 47	**PN G050.4−01.6**
19 30.4+11 23	K 4-27
19 30.6+23 04	K 4-29
19 31.1−03 42	**PN G034.1−10.5**
19 31.3+10 03	**PN G046.4−04.1**
19 31.6+09 14	**PN G045.7−04.5**
19 32.1−34 13	**PN G004.8−22.7**
19 32.4−29 25	K 1-5
19 32.6+07 28	**PN G044.3−05.6**
19 33.0+26 53	**PN G061.3+03.6**
19 33.2+22 59	*PN?* K 4-30
19 33.3+10 37	**PN G047.1−04.2**
19 33.8+24 32	**PN G059.4+02.3**
19 33.8−74 33	**PN G320.3−28.8**
19 34.6+05 41	**PN G042.9−06.9**
19 34.8+30 31	**PN G064.7+05.0**
19 35.3+17 13	**PN G053.2−01.5**

α_{2000} δ_{2000}	Designation
19 35.9+24 55	**PN G059.9+02.0**
19 36.4+19 42	**PN G055.5−00.5**
19 36.4+23 40	**PN G058.9+01.3**
19 37.1+13 41	K 4-31
19 38.1+25 16	**PN G060.5+01.8**
19 38.9+25 06	**PN G060.4+01.5**
19 39.2+15 57	**PN G052.5−02.9**
19 39.3+16 21	**PN G052.9−02.7**
19 39.6+20 19	**PN G056.4−00.9**
19 39.7+26 31	**PN G061.8+02.1**
19 40.4+18 49	**PN G055.1−01.8**
19 40.5−20 27	**PN G019.4−19.6**
19 40.9+18 45	K 3-44
19 41.2+14 57	**PN G051.9−03.8**
19 41.6+17 45	**PN G054.4−02:5**
19 42.0+16 45	*PN?* HM Sge
19 42.1+13 51	**PN G051.0−04.5**
19 42.1+24 30	K 4-32
19 42.2+17 05	**PN G053.8−03.0**
19 42.3+15 09	**PN G052.2−04.0**
19 44.0−14 09	**PN G025.8−17.9**
19 44.1+23 27	He 2-446
19 44.8+50 31	**PN G083.5+12.7**
19 45.4+21 20	**PN G057.9−01.5**
19 45.6+05 34	*PN?* A 64
19 45.7+28 38	K 4-33
19 46.3+24 11	**PN G060.5−00.3**
19 46.4+17 01	K 4-34
19 46.6−23 08	**PN G017.3−21.9**
19 48.4+22 10	**PN G059.0−01.7**
19 48.9+20 08	K 4-35
19 48.9+22 25	*PN?* We 1-8
19 49.6+05 19	K 4-36
19 49.8+48 58	**PN G082.5+11.3**
19 50.0+33 46	**PN G069.2+03.8**
19 50.4+28 12	K 3-47
19 50.5+25 54	**PN G062.4−00.2**
19 51.0+31 03	**PN G066.9+02.2**
19 51.3+19 58	K 4-38
19 51.9+32 59	**PN G068.7+03.0**
19 52.2+27 19	K 3-48
19 53.1+23 14	K 4-39
19 54.0+33 22	**PN G069.2+02.8**
19 54.2+24 58	K 4-40
19 55.0+29 17	**PN G065.9+00.5**
19 56.6+32 22	**PN G068.7+01.9**
19 57.1+39 50	*PN?* V 1016 Cyg
19 57.5−21 37	**PN G019.8−23.7**
19 58.2−26 28	**PN G014.8−25.6**
19 58.5+03 02	**PN G043.5−13.4**
19 59.3+31 55	**PN G068.6+01.1**
19 59.6+22 43	**PN G060.8−03.6**

α_{2000} δ_{2000}	Designation
20 00.2+21 43	**PN** G060.0–04.3
20 00.3+36 59	*PN?* NeVe 2
20 00.7+01 44	**PN** G042.5–14.5
20 00.9+33 16	*PN?* Kj 1-2
20 01.7+19 55	**PN** G058.6–05.5
20 01.7+33 33	K 3-50
20 01.8+33 32	NGC 6857
20 02.6+17 37	**PN** G056.8–06.9
20 03.2+30 33	**PN** G067.9–00.2
20 03.2+31 55	*PN?* CoMaC 3
20 03.4+27 01	**PN** G064.9–02.1
20 04.0+49 19	**PN** G084.0+09.5
20 04.4+39 35	**PN** G075.6+04.3
20 04.5+74 27	*PN?* K 1-6
20 04.7+31 27	**PN** G068.8–00.0
20 05.0+25 27	**PN** G063.8–03.3
20 06.7+25 01	K 4-42
20 06.9+32 17	**PN** G069.7–00.0
20 06.9+44 14	**PN** G079.9+06.4
20 08.7+42 30	**PN** G078.6+05.2
20 09.0+43 44	**PN** G079.6+05.8
20 09.1+26 27	**PN** G065.1–03.5
20 10.4+16 55	**PN** G057.2–08.9
20 10.4+46 28	**PN** G082.1+07.0
20 10.9+37 25	**PN** G074.5+02.1
20 11.9+20 20	**PN** G060.3–07.3
20 12.2+40 50	**PN** G077.5+03.7
20 12.7+19 59	**PN** G060.1–07.7
20 12.8+34 21	**PN** G072.1+00.1
20 14.0+29 34	**PN** G068.3–02.7
20 15.2+12 42	**PN** G054.1–12.1
20 15.3+40 40	**PN** G077.7+03.1
20 16.4+30 34	**PN** G069.4–02.6
20 16.5+37 06	M 1-76
20 17.3+38 50	**PN** G076.4+01.8
20 17.4+25 22	**PN** G065.2–05.6
20 17.4+39 45	*PN?* Kj 2-1
20 19.5–41 32	**PN** G359.2–33.5
20 19.6+27 00	**PN** G066.9–05.2
20 19.9+38 25	**PN** G076.3+01.1
20 20.1+16 44	**PN** G058.3–10.9
20 21.1+32 29	**PN** G071.6–02.3
20 22.0+29 59	**PN** G069.6–03.9
20 22.1+40 27	*PN?* MaCCo 1
20 22.4+20 06	**PN** G061.4–09.5
20 25.1+33 34	**PN** G073.0–02.4
20 25.2+43 53	K 3-59
20 28.1+22 51	K 4-43
20 28.4–38 31	*PN?* ESO 340-34
20 28.8+40 25	*PN?* KjPn 4
20 29.3+40 15	**PN** G078.9+00.7
20 31.6–07 05	**PN** G038.1–25.4

α_{2000} δ_{2000}	Designation
20 31.9+48 53	**PN** G086.1+05.4
20 32.4+47 21	**PN** G084.9+04.4
20 35.3+36 12	*PN?* MaCCo 2
20 35.5–83 03	*PN?* ESO 011-01
20 35.6+51 33	*PN?* Kr 1-2
20 36.0+20 12	He 2-467
20 41.4+34 44	He 2-468
20 42.3+37 41	**PN** G078.3–02.7
20 42.9+45 57	K 4-54
20 44.5–40 57	*PN?* ESO 341-10
20 45.2+44 39	**PN** G084.2+01.0
20 45.4+50 23	**PN** G088.7+04.6
20 50.0+13 33	**PN** G059.7–18.7
20 51.0+35 35	*PN?* V 1329 Cyg
20 53.2+53 46	**PN** G092.1+05.8
20 55.7+46 36	K 4-56
20 56.4+57 26	**PN** G095.2+07.8
21 00.5+54 32	**PN** G093.4+05.4
21 00.5+54 33	K 4-44
21 02.3+36 42	*PN?* CRL 2688
21 04.2–11 22	**PN** G037.7–34.5
21 05.9–37 08	**PN** G006.0–41.9
21 06.3+47 51	**PN** G089.0+00.3
21 07.0+42 14	**PN** G084.9–03.4
21 07.7+41 11	**PN** G084.2–04.2
21 10.9+50 47	**PN** G091.6+01.8
21 14.1+47 44	**PN** G089.8–00.6
21 14.3+46 17	**PN** G088.7–01.6
21 16.9+24 09	**PN** G072.7–17.1
21 18.1+43 49	**PN** G087.4–03.8
21 19.1+46 19	**PN** G089.3–02.2
21 20.7+51 53	**PN** G093.5+01.4
21 22.3+38 07	**PN** G083.9–08.4
21 26.4+62 53	**PN** G101.8+08.7
21 27.4+57 39	**PN** G098.2+04.9
21 29.9+51 03	*PN?* IRAS 21282+5050
21 30.0+12 10	CiPg 1
21 30.0+12 10	**PN** G065.0–27.3
21 30.0+54 27	**PN** G096.3+02.3
21 30.1–02 48	A 76
21 30.9+50 00	**PN** G093.3–00.9
21 31.8+52 34	**PN** G095.2+00.7
21 32.2+55 53	**PN** G097.5+03.1
21 32.5+44 36	**PN** G089.8–05.1
21 33.1+39 38	**PN** G086.5–08.8
21 35.3+53 47	K 4-45
21 35.5+31 42	**PN** G081.2–14.9
21 35.7+50 54	**PN** G094.5–00.8
21 36.9+12 47	**PN** G066.7–28.2
21 37.0+48 56	**PN** G093.3–02.4
21 38.8+46 00	**PN** G091.6–04.8
21 39.2+55 46	**PN** G098.1+02.4

α_{2000} δ_{2000}	Designation
21 43.3+50 25	**PN G095.1–02.0**
21 46.2+63 47	**PN G104.1+07.9**
21 57.7+51 42	**PN G097.6–02.4**
21 59.5–39 23	**PN G002.7–52.4**
22 13.4+65 54	**PN G107.7+07.8**
22 16.1+57 29	**PN G103.2+00.6**
22 19.6+70 56	**PN G111.0+11.6**
22 20.3+58 14	**PN G104.1+01.0**
22 20.5+57 36	**PN G103.7+00.4**
22 21.1–43 53	ESO 289-19
22 23.9+50 58	**PN G100.6–05.4**
22 26.3+54 50	**PN G102.9–02.3**
22 29.6–20 50	**PN G036.1–57.1**
22 30.6+47 31	*PN?* HDW 13
22 31.7+47 48	**PN G100.0–08.7**
22 32.3+56 10	**PN G104.4–01.6**
22 34.8+52 26	**PN G102.8–05.0**
22 40.3+61 17	**PN G107.8+02.3**
22 42.6+80 27	**PN G117.5+18.9**
22 47.9+67 03	**PN G111.2+07.0**
22 48.6+58 29	**PN G107.4–00.6**
22 50.9+59 30	K 3-85
22 51.6+51 51	**PN G104.8–06.7**
22 54.8+54 56	*PN?* K 3-86
22 55.1+56 43	**PN G107.4–02.6**
22 56.3+57 09	**PN G107.7–02.2**
22 56.7+71 28	Kr 2-2
22 58.9+61 58	**PN G110.1+01.9**
23 07.7+66 59	*PN?* KjPn 7
23 09.2+66 48	Kj 2-2
23 09.3+54 45	K 4-46
23 12.2+59 36	We 1-12
23 12.3+64 39	**PN G112.5+03.7**
23 13.1+59 18	*PN?* WeSb 6
23 22.3+57 46	We 2-260
23 23.0+46 54	**PN G107.6–13.3**
23 24.3+60 56	**PN G112.5–00.1**
23 25.9+42 32	**PN G106.5–17.6**
23 26.2+58 11	**PN G111.8–02.8**
23 31.9+70 22	**PN G116.2+08.5**
23 35.5+64 53	**Anon. 23h33m**
23 35.9+30 28	**PN G104.2–29.6**
23 39.1+48 13	**PN G110.6–12.9**
23 45.8+57 04	**PN G114.0–04.6**
23 46.8+54 45	**PN G113.6–06.9**
23 47.7+51 24	**PN G112.9–10.2**
23 52.3+66 31	*PN?* We 2-262
23 56.6+70 48	*PN?* M 2-56

Name	Reference
A	Abell G.O.
	1966, *Astrophys. J. 144, 259*
Al	Allen D.A.
1	*1973, Observatory 93, 85*
2	1979, *Observatory 99, 83*
Anon	Anonymous
Ap	Apriamasvili S.P.
1	1962, *Astron. Zurn.39, 256*
2	1962, *A. C. 231, 25*
3	1962, *A. C. 232, 3*
4	1964, *A. C. 279, 1*
ARO	Algonquin Radio Observatory
	Higgs L.A.
	1971, *PAB, Vol.1, N°1, Domin. Observatory*
AS	Additional Stars to MWC
	Merrill P.W., Burwell C.G.
	1950, *Astrophys. J. 112, 72*
Ba	Baade W.
	1935, *Publ. Astron. Soc. Pac. 47, 99*
Bl	Blanco V.M.
1	1961, *Contr. Bosscha Observatory 13*
2-3	1964, *in PK67*
BlDz	Blaauw A., Danziger I.J., Schuster H.E.
	1975, *Astron. Astrophys. 44, 469*
BoBn	Boeshaar G.O., Bond H.E.
	1977, *Astrophys. J. 213, 421*
BV	Bohm-Vitense E.
	1956, *Publ. Astron. Soc. Pac. 68, 430* Table 5
CiPg	Caloi V., Panagia N.
	1974, *Astron. Astrophys. 36, 139*
Cn	Cannon A.J.
1	1921, *Harv. Cir. 224*
2	1923, *Harv. Bull. 784*
3	1926, *Harv. Bull. 837*
CnMy	Cannon A.J., Mayall M.W.
	1938, *Harv. Bull. 908, 20*
CoMaC	Coyne G.V., Mac Connell D.J.
	1983, *Vatican Observatory Publications Vol.2, N.6, 73*
CRBB	McCarthy J.K., Rich R.M., Becker S.R., Butler K., Husfeld D., Groth H.G.
	Astrophys. J. in press
CTIO	Smith M.G., Aguire C., Zemelman H. (Cerro-Tololo)
	1976, *Astrophys. J. Suppl. 32, 217*
CTS	Capellaro E., Turatto M., Sabbadin F.
	1987, *Proc. IAU Symp. 131, Mexico, Planetary Nebulae p.61*
CTSS	Capellaro E., Turatto M., Salvadori L., Sabbadin F.
	1990, *Astron. Astrophys. Suppl. Ser. 86, 503*
Dd	Dolidze M.W.
	1971, *Astron.Tsirk. 629, 6*
DdDm	Dolizde M.W., Dzhimsheleishvili G.N.
	1966, *Astron. Tsirk. 385, 7*
DDHW	Danziger I.J., Dopita M.A., Hawarden T.G., Webster B.L.
	1978, *Astrophys. J. 220, 458*
DeHt	Dengel J., Hartl H., Weinberger R.
	1980, *Astron. Astrophys. 85, 356*
DHW	Dengel H., Hartl H., Weinberger R.
	1979, *Mitt. Astron. Gesell. 45, 182*
	1980, *Astron. Astrophys. 85, 356*
DS 1	Kilkenny D., Spencer Jones J.H., Marang F.
	1988, *Observatory, Vol.108, N.1084*
DS 2	Drilling J.S.
	1983, *Astrophys. J. 270,L13*
DuRe	Duerbeck H.W., Reipurth G.
	1990, *Astron. Astrophys. 231,L11*
Em	Mac Cuskey S.W.
	1961, *Publ. Astron. Soc. Pac. 73, 264*
EGB	Ellis G.L., Grayson E.T., Bond H.E.
	1984, *Publ. Astron. Soc. Pac. 96, 283*
ESO	Lauberts A.
	1982, *The ESO/Uppsala survey of the ESO (B) atlas*
Fg	Fleming M.
	1910, *Harv. Cir. 158*
	1911, *Harv. Cir. 167*
GEA	Georgelin Y.P., Georgelin Y.M.
	1970, *Astron. Astrophys. 6, 349*
	1970, *Astron. Astrophys. 7, 133*

Name	Reference
Gum	Gum C.S. 1955, *Mem. Roy. Astron. Soc. 67, 155*
GJJC	Gillett F.C., Jacoby G.H., Joyce R.R., Cohen J.G., Neugebauer G., Soifer B.T., Nakajima T., Matthews K. 1989, *Astrophys. J. 338, 862*
GM	Gasparian K.G., Parsamian E.S. 1988, *Astrofizika 28, 679*
H	Haro G.
4	1951, *Publ. Astron. Soc. Pac. 63, 144*
1-2	1952, *Bol. Obs. Tonantzintla y Tacubaya 1, 93* Haro G., Iriarte B., Chavira E.
3	1953, *Bol. Obs. Tonantzintla y Tacubaya* **1**, *N°8, 3*
HaTr	Hartl H., Tritton S.B. 1983, *Mitteilungen Astron. Gesell. 60, 328* 1985, *Astron. Astrophys. 145, 41*
HaWe	Hartl H., Weinberger R. 1987, *Astron. Astrophys. Suppl. Ser. 69, 519*
Hb	Hubble E.P. 1921, *Publ. Astron. Soc. Pac. 33, 174*
HBDS	Heber U., Drilling J.S. 1984, *Mitteilungen Astron. Gesell. 62, 252*
HBV 475	Crampton D., Grygar J., Kohoutek L., Viotti R. 1970, *Astrophys. Letters 6, 5*
HDW	Hartl H., Dengel J., Weinberger R. 1983, *Mitteilungen Astron. Gesell. 60, 325*
He	Henize K.G.
1	1961, *Publ. Astron. Soc. Pac. 73, 159*
2	1967, *Astrophys. J. Suppl. 14, 125*
3	1976, *Astrophys. J. Suppl. 30, 491*
HeFa	Henize K.G., Fairall A.P. 1983, *IAU Symp. 103, 544*
Hf	Hoffleit D. 1953, *Harv. Ann. 119, 37*

Name	Reference
HFG	Heckathorn J.N., Fesen R.A., Gull T.R. 1982, *Astron. Astrophys. 114, 414*
HKV	Hrivnak B.J., Kwok S., Volk K.M. 1988, *Astrophys. J. 331, 832*
Hu	Humason M.L.
1	1921, *Publ. Astron. Soc. Pac. 33, 175*
2	1922, *Publ. Astron. Soc. Pac. 34, 296*
HuBi	Hu J.Y., Bibo E.A. 1990, *Astron. Astrophys. 234, 435*
HuDo	Hu J.Y., Dong Y.S. 1991, *Science Bulletin of Academica Sinica, in press*
HuLo	Hua C.T., Louise R. 1990, *Astron. Astrophys. 235, 403*
IC	Ngc Supplement
IRAS	Iras Point Source Catalogue
IsWe	Ishida K., Weinberger R. 1987, *Astron. Astrophys. 178, 227*
J	Jonckheere R. 1916, *Observatory 39, 134*
Jn	Miller F.D., Van Dien E. 1949, *Astrophys. J. 109, 537* 1949, *Astrophys. J. 110, 104*
JnEr	Barbieri C., Sulentic J.W. 1977, *Publ. Astron. Soc. Pac. 89, 261*
JoDi	Jones E.M., Dickel J.R. 1984, *Bul. American Astron. Soc. 16, N.4, 975*
K 1	Kohoutek L. 1962, *Bull. Astron. Czech. 13, 120* 1963, *Bull. Astron. Czech. 14, 70* 1971, *Astron. Astrophys. 13, 493* 1977, *Astron. Astrophys. 59, 137*
K 2	Kohoutek L. 1963, *Bull. Astron. Czech. 14, 70* 1964, *Bull. Astron. Czech. 15, 162* 1971, *Astron. Astrophys. 13, 493* 1977, *Astron. Astrophys. 59, 137*
K 3	Kohoutek L. 1965, *in PK67* 1969, *Bull. Astron. Czech. 20, 307* 1972, *Astron. Astrophys. 16, 291*

Name	Reference
K 4	Kohoutek L. 1965, *in PK67* 1969, *Bull. Astron. Czech. 20, 307* 1972, *Astron. Astrophys. 16, 291*
KFL	Kinman T.D., Feast M.W., Lasker B.M. 1988, *Astron. J. 95, 804*
Kj	Kazarian M.A.
1	1966, *Astrofizika Vol.2, N.3, 371*
2	1976, *Astrofizika Vol.12, N.2, 385*
KjPn	Kazarian M.A., Parsamian E.S.P. 1971, *Astron. Tsirk. 602, 6*
KoRe	Koester D., Reimers D. 1989, *Astron. Astrophys. 223, 326*
KO	Kazarian M.A., Oganesyan E.Y. 1973, *Astron. Tsirk. 753, 3*
Kr	Krasnogorskaja A.A. 1962, *A. C. 230, 11*
K 648	Kustner F. 1921, *Veroff. Univers. Sternw. Bonn 15*
Lo	Longmore A.J. 1977, *Mon. Not. R. Astron. Soc. 178, 251*
LoTr	Longmore A.J., Tritton S.B. 1980, *Mon. Not. R. Astron. Soc. 193, 521*
LSA	Lundström I., Stenholm B., Acker A. 1988, *Astron. Astrophys. 196, 233*
LuSt	Lundström I., Stenholm B. 1984, *Astron. Astrophys. 138, 311*
M	Messier Catalogue
M	Minkowski R.
1	1946, *Publ. Astron. Soc. Pac. 58, 305*
2	1947, *Publ. Astron. Soc. Pac. 59, 257*
3	1948, *Publ. Astron. Soc. Pac. 60, 386*
4	1965, *see PK67*
MA	Maehara H. 1982, *Contr. Bosscha Observ. 71, 1*
MaC	Mac Connell D.J.
1	1978, *Astron. Astrophys. Suppl. Ser. 33, 219*
2	1982, *Astron. Astrophys. Suppl. Ser. 48, 355* Table III

Name	Reference
MaCCo	Mac Connell D.J., Coyne G.V. 1983, *Vatican Observatory Publications Vol.2, N.5, 63*
Me	Merrill P.W.
1	1941, *Publ. Astron. Soc. Pac. 53, 245*
2	1942, *Publ. Astron. Soc. Pac. 54, 107*
MeWe	Melmer D., Weinberger R. 1990, *Mon. Not. R. Astron. Soc. 243, 236*
MGP	Manchado A., Garcia-Lario P., Pottasch S.R. 1989, *Astron. Astrophys. 218, 267*
MRMG	Manchado A., Riera A., Mampaso A., Garcia-Lario P., Pottasch S.R. 1989, *Rev. Mex. Astron. Astrophys. 18, 182*
MWC	Mount Wilson Catalogue Merrill P.W., Burwell C.G. 1933, *Astrophys. J. 78, 87* 1943, *Astrophys. J. 98, 153*
My	Mayall M.W. 1951, *Harv. Bull. 920, 32*
MyCn	Mayall M.W., Cannon A.J. 1940, *Harv. Bull. 913, 7*
Mz	Menzel D.N. 1922, *Harv. Bull. 777*
Na	Nassau J.J., Stephenson C.B., Caprioli G. 1964, *Astrophys. J. 139, 864* Table V
NeVe	Neckel T., Vehrenberg H. 1985, *Atlas Galaktischer Nebel,Teil I Treuugesell Verlag K.G.* 1987, *Atlas Galaktischer Nebel,Teil II Treuugesell Verlag K.G.*
NGC	New General Catalogue And Revised New Catalogue
Ns	Nordstrom B. 1975, *Astron. Astrophys. Suppl. Ser. 21, 193*
PB	Peimbert M., Batiz G. 1960, *Bol. Obs. Tonantzintla y Tacubaya 2, N.19, 12*
PBZ	Pottasch S.R., Bignelli C., Zijlstra A. 1987, *Astron. Astrophys. 177,L49*

Name	Reference
PBOZ	Pottasch S.R., Bignell C., Olling R., Zijstra A.A. 1988, *Astron. Astrophys. 205, 248*
PC	Peimbert M., Costero R. 1961, *Bol. Obs. Tonantzintla y Tacubaya 3, N.21, 33*
Pe	Perek L.
1	1960, *Bull. Astron. Czech. 11, 256* Table I
2	1963, *Bull. Astron. Czech. 14, 201* Table II
PGK	Fesen R.A., Gull T.R., Heckathorn J.N. 1983, *Publ. Astron. Soc. Pac. 95, 614*
PHL	Arp H., Scargle J.D. 1967, *Astrophys. J. 150, 707*
PK67	Perek L., Kohoutek L., 1967 1967, *Catalogue of Galactic Planetary Nebulae, Czechoslovak Academy of Sciences, Praha*
PM	Preite-Martinez A. 1988, *Astron. Astrophys. Suppl. Ser. 76, 317*
PP	Parsamian E.S., Petrossian V.M. 1979, *Armenian S. S. R. Acad. Sci. LI, 1*
PRMG	Pena M., Ruiz M.T., Maza J., Gonzalez L.E. 1989, *Rev. Mexicana Astron. Astrof. 17, 25*
PRTM	Pena M., Ruiz M.T., Torres-Peimbert S., Maza J. 1990, *Astron. Astrophys. 237, 454*
Ps 1	Pease F.G. 1928, *Publ. Astron. Soc. Pac. 40, 342*
Ps 2	Peterson A.W. 1976, *Astron. Astrophys. 53, 441*
Pt	Peterson A.W. 1977, *Publ. Astron. Soc. Pac. 89, 129*
Pu	Purgathofer A.
1	1978, *Astron. Astrophys. 70, 589*
2	1980, *Astron. Astrophys. 88, 275*
PuWe	Purgathofer A., Weinberger R. 1980, *Astron. Astrophys. 87,L5*
Re	Reynolds R.J. 1985, *Astrophys. J. 288, 622* 1987, *Astrophys. J. 315, 234*
RCW	Rodgers A.W., Campbell C.T., Whiteoak J.B. 1960, *Mon. Not. R. Astron. Soc. 121, 103*
RPZM	Ratag M.A., Pottasch S.R., Zijlstra A.A., Menzies J. 1990, *Astron. Astrophys. 233, 181*
RWT	Pritchet C. 1984, *Astron. Astrophys. 139, 230*
Sa	Sanduleak N.
1	1974, *Publ. Astron. Soc. Pac. 86, 215* (=Sp 1)
2	1975, *Publ. Warner and Swasey Obs. Vol.2, N.1* Table I 1975, *Publ. Astron. Soc. Pac. 87, 705*
3	1976, *Publ. Warner and Swasey Obs. Vol.2, N.3* Table II (=Sp 2)
4	1983, *Publ. Astron. Soc. Pac. 95, 619*
SaSt	Sanduleak N., Stephenson C.B.
1	1972, *Astrophys. J. 178, 183*
2	1972, *Publ. Astron. Soc. Pac. 84, 816* Table I
3	1973, *Astrophys. J. 185, 899*
SaWe	Saurer W., Weinberger R. 1987, *Astron. Astrophys. Suppl. Ser. 69, 527*
Sd	Sherwood W.A. 1969, *Observatory 89, 207*
Sh	Sharpless S.
1	1953, *Astrophys. J. 118, 362* Table II
2	1959, *Astrophys. J. Suppl. 4, 257* Table I
ShWi	Shaw R.A., Wirth A. 1985, *Publ. Astron. Soc. Pac. 97, 1071*
Simeiz	Arkhipova V.P., Lozinskaya T.A. 1978, *Sov. Astron. Lett. 4, 1*
SMC	Savage A., Murdin G., Clark D.H. 1982, *Observatory 102, 229*
Sn	Shane 1964, *in Mayall's list of radial velocities*

Name	Reference
Sp	Shapley H. 1936, *Harv. Bull. 902, 26*
SRWW	Scarrott S.M., Rolph C.D., Wolstencroft R.D., Walker H.J., Sekiguchi K. 1990, *Mon. Not. R. Astron. Soc. 245, 484*
St	Stephenson C.B.
3	1978, *Publ. Astron. Soc. Pac. 90, 396*
4	1985, *Publ. Astron. Soc. Pac. 97, 930*
Ste	Stenholm B. 1975, *Astron. Astrophys. 39, 307* Table II
StWr	Stock J., Wroblewski H. 1972, *Publ. Dep. Astron. Univ. Chili 2, 59* (1 = Table Ib; 2 = Table IIb ; 3 = Table IIIb ; 4 = Table IVb)
SuWt	Schuster H.E., West R.M.
1-2	1976, *Astron. Astrophys. 46, 139 + erratum Astron. Astrophys.48, 483*
3	1980, *Astron. Astrophys. 88, 350*
SwSt	Swings P., Struve O. 1940, *Proc. Nat. Acad. Sci. 26, 454*
Tc	Thackeray A.D. 1950, *Mon. Not. R. Astron. Soc. 110, 524*
TCSS	Turatto M., Cappelaro E., Sabbadin F., Salvadori L. 1990, *Astron. J. 99, 1170*
TDC	Thompson D.J., Djorgovski S., De Carvalho R.R. 1991, *Publ. Astron. Soc. Pac. 103, 487*
Te	Terzan A. 1985, *The Messenger 42, 4* 1991, *Private communication*
TeJu	Terzan A., Ju K.H. 1980, *The Messenger 20, 6*
TeOu	Terzan A., Ounnas Ch. 1988, *Astron. Astrophys. Suppl. Ser. 76, 205*

Name	Reference
Th	The P.S.
1	1962, *Contr. Bosscha Obs. 14, table V*
2	1962, *Contr. Bosscha Obs. 17, table IV*
3	1964, *Contr. Bosscha Obs. 26, table I; see also PK67*
4	1964, *Contr. Bosscha Obs. 28, table I*
TrBr	Terzan A., Bernard A., Ju K.H. 1978, *Comptes Rendus Acad. Sci. 287, Série B, 235*
VBe	Van Den Bergh S.
1	1978, *Astrophys. J. Suppl. 38,119* Table 2
2-3	1979, *Astrophys. J. 227, 497*
VBRC	Van Den Bergh S., Racine R., Van Agt S., Barnes T., Coutts C., Madore B., Skill A. 1973, *Astrophys. J. 179, 863*
Vd	Vandervort G.L. 1964, *Contr. Bosscha Obs. 30*
Ve	Velghe A.G. 1957, *Astrophys. J. 126, 302* Table I (22, 26, 27), Table III (59to62)
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Vo	Volk K. 1988, *Private communication*
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V-V 3	Vorontsov-Vel'Yaminov B.A., Kostyakova E.B., Dokuchaeva O.D., Arkhipova V.P. 1972, *Astron. Tsirk. USSR Moscow N.716, 7*
V-V Anon	Vorontsov-Vel'Yaminov B.A., Kostyakova E.B., Dokuchaeva O.D., Arkhipova V.P. 1975, *Soviet Astron. 19, 163*
VV	Vorontsov-Vel'Yaminov B.A. 1934, *Astron. Zurn. 11, 40* 1970, *Trudy Gos. Astron. Inst. Sternberga 40, 57*

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Vy 1	Vyssotsky A.N. 1942, *Publ. Astron. Soc. Pac. 54, 152*
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We	Weinberger R.
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WeDe	Weinberger R., Dengel J., Hartl H., Sabbadin F. 1983, *Astrophys. J. 265, 249*
WeSb	Weinberger R., Sabbadin F. 1981, *Astron. Astrophys. 100, 66*
WhBe	White R.L., Becker R.H. 1990, *Mon. Not. R. Astron. Soc. 244, 12p*
WhMe	Whitelock P.A., Menzies J.W. 1986, *Mon. Not. R. Astron. Soc. 223, 497*
Wray	Wray J.D. 1966, *Thesis, Northwestern University*
WSDH	Weinberger R., Sabbadin F., Dengel J., Hartl H. 1983, *Astrophys. J. 265, 249*
Y-C 2	Cesco C.U., Gibson J. 1973, *Astron. Astrophys. Suppl. Ser. 11, 335* Table 2; Cesco C.U., Sanguin J.G., Sanchez G., Mira H., Cesco M.R., Vicentenla J.A. 1984, *Bol. Asoc. Arg. de Astron. N.28, 157*

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Zo H.	Zodet 1984, *The Messenger 38, 42*
19W32 *and* 19W96	Wouterloot J.G.A., Dekker E. 1979, *Astron. Astrophys. Suppl. Ser. 36, 323*
19W43	Isaacman R., Wouterloot J.G.A., Habing H.J. 1980, *Astron. Astrophys. 86, 254*

Note: The following other abbreviations are also found in the literature:

Ae	=	Al
BRABCMS	=	VBRC
CeGi	=	Y-C
DeHt	=	DHW
Do	=	Dd
DoDz	=	DdDm
FEGU	=	PGK
HEFE	=	HeFa
HEN	=	He 3
HtDe	=	HDW
HtTr	=	HaTr
MRMG	=	LMRM
SAWI	=	ShWi
SKWL	=	StWr
Simeiz 22	=	S 22
Sm	=	Ste
Sp 1	=	Sa 1
Sp 2	=	Sa 3
TBJ	=	TrBr
TJ	=	TeJu
Tol	=	CTIO
Trz	=	Te
VB	=	VBe
V-V 1	=	V-V
WeDe	=	WDHS
WeSa	=	WeSb
Ae	=	Al

C. REFERENCES of PAPERS

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Ac76 Acker A. *Publ. Obs. Strasbourg 4,1-172* Cinematique, age et binarite des noyaux de nebuleuses planetaires.

Ac78 Acker A. *Astron. Astrophys. Suppl. Ser. 33,367-381* A new synthetic distance scale for planetary nebulae.

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Ac82 Acker A. *Bull. Inf. Centre Donnees Stellaires 23,92-95* A first glance at the catalogue of the central stars of Planetary Nebulae.

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Al69 Aller H.L. *Sky Tel. 38,227-229* The planetary nebulae. VI.

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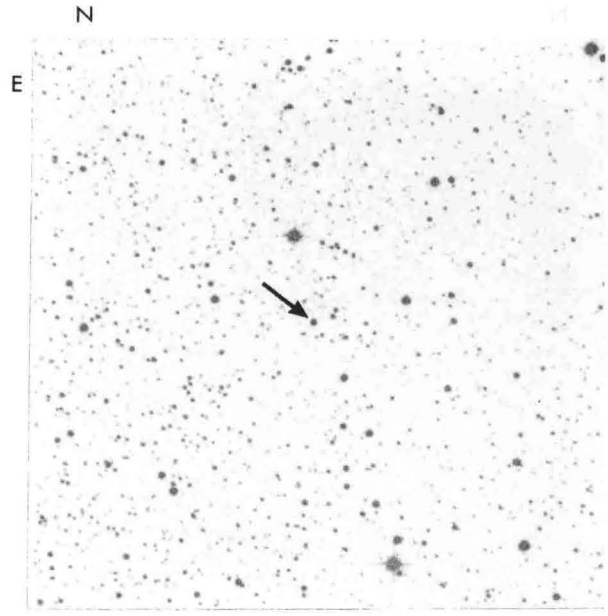
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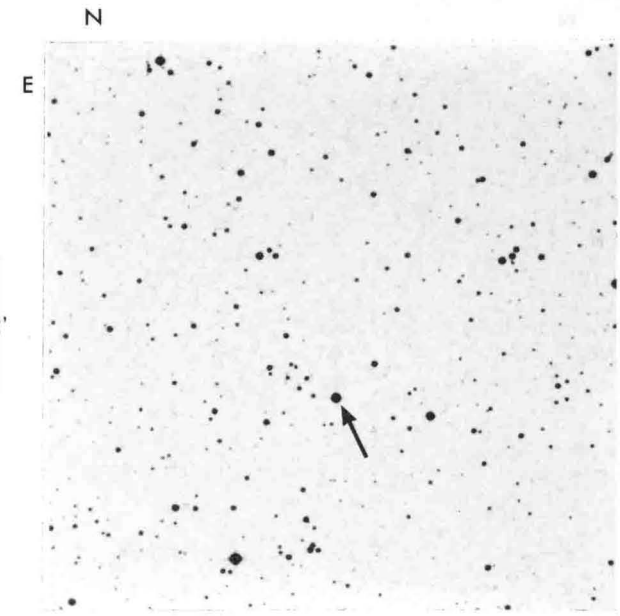
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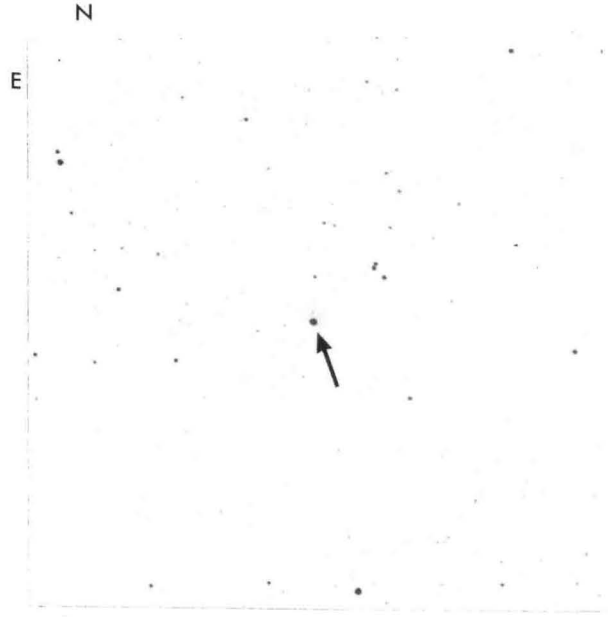
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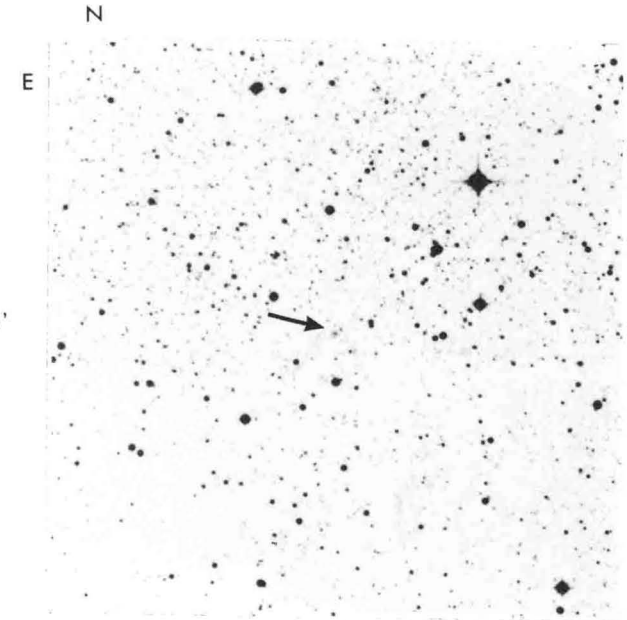
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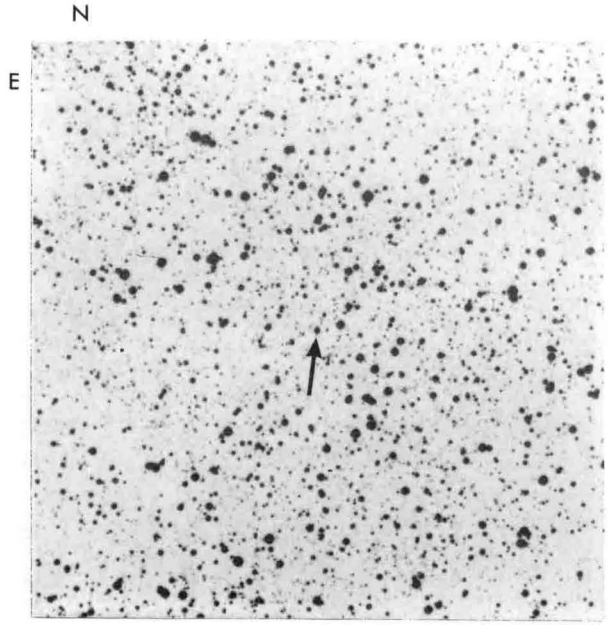
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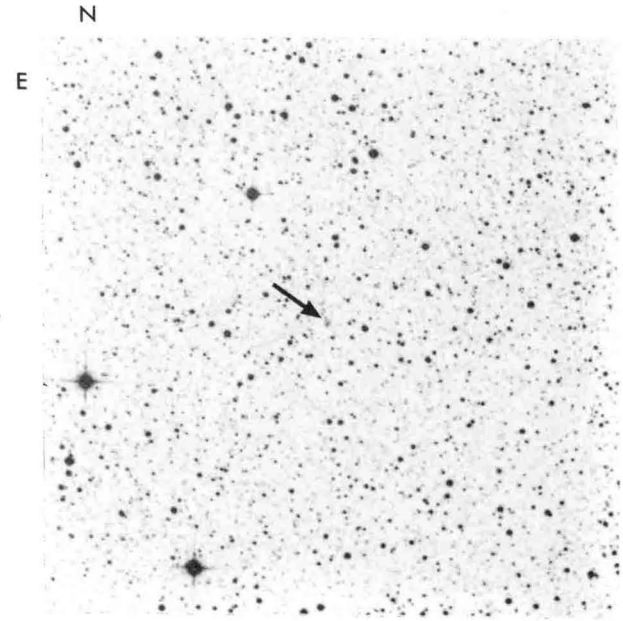
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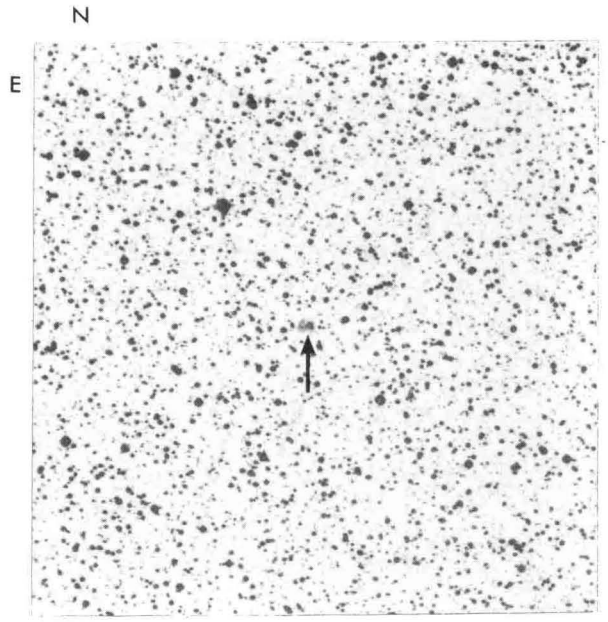
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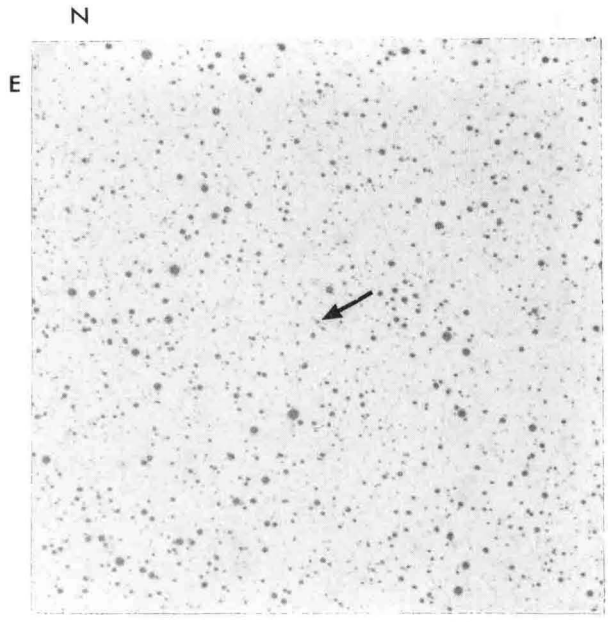
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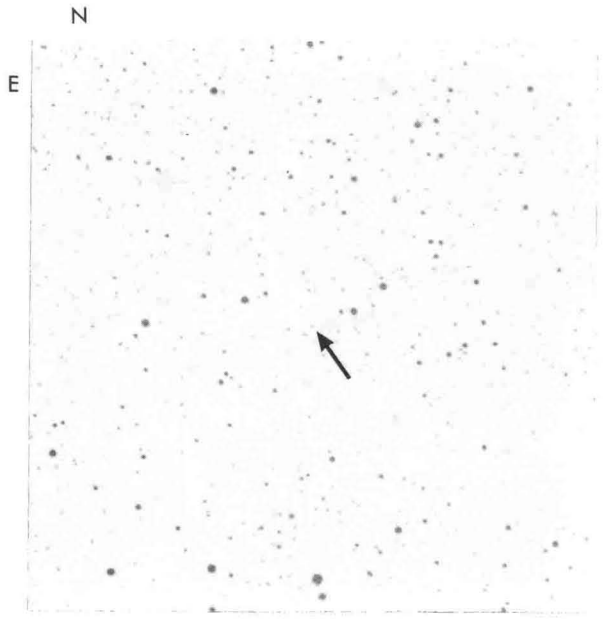
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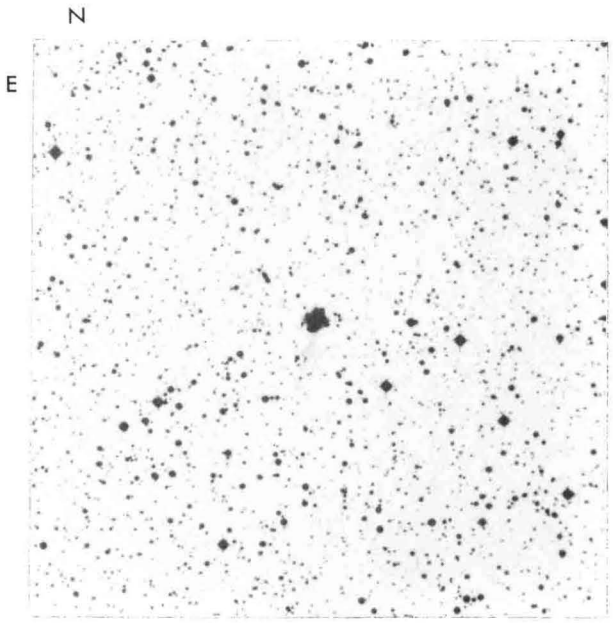
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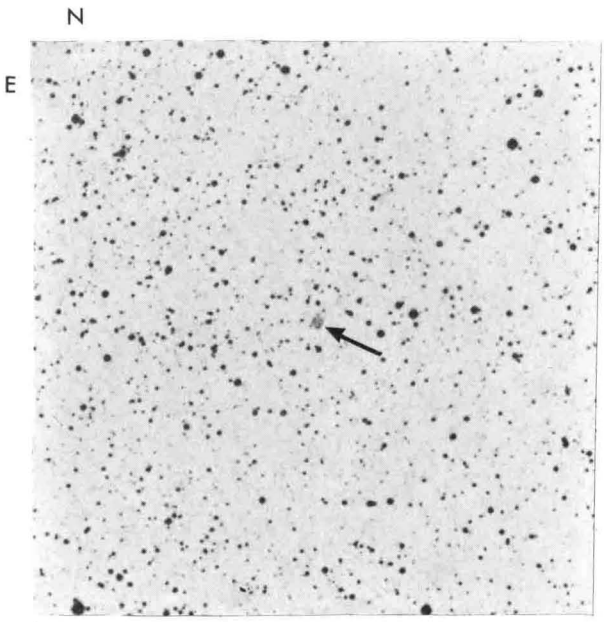
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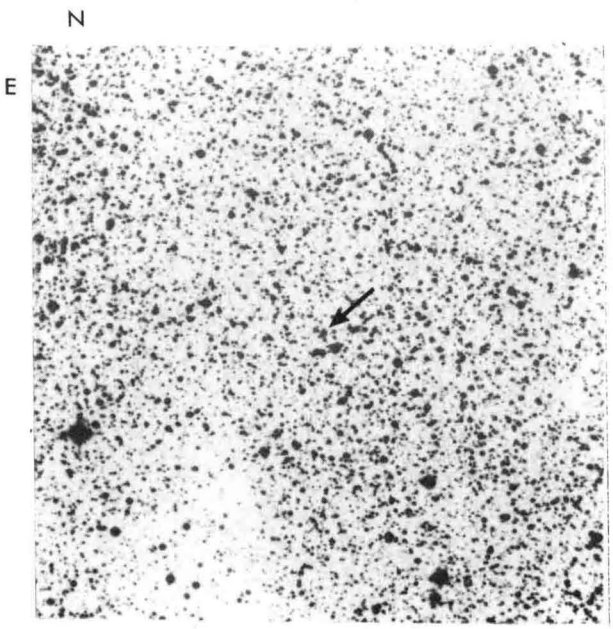
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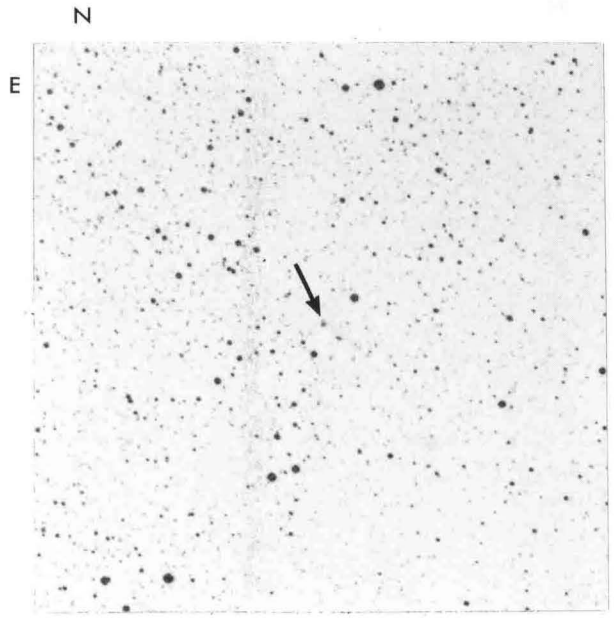
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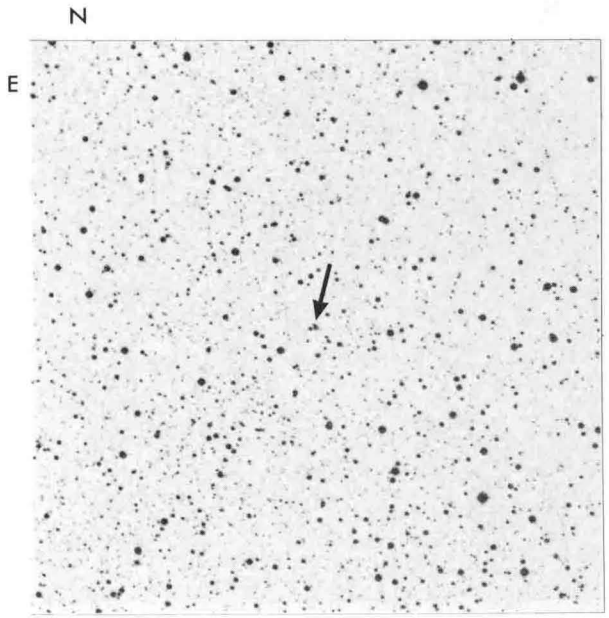
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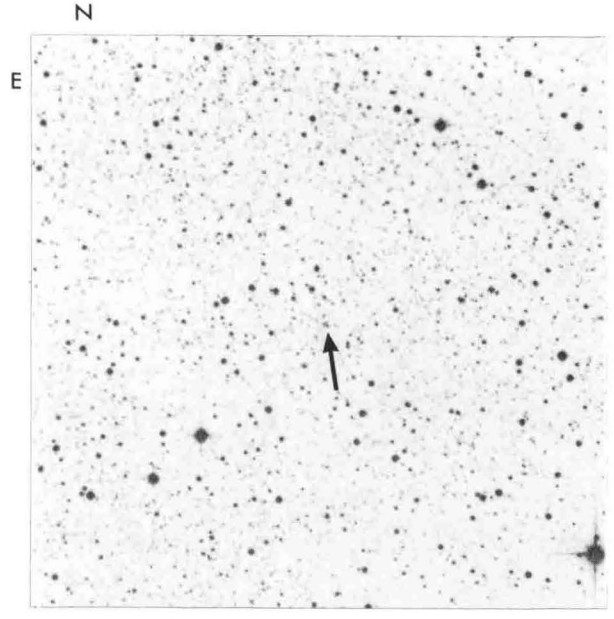
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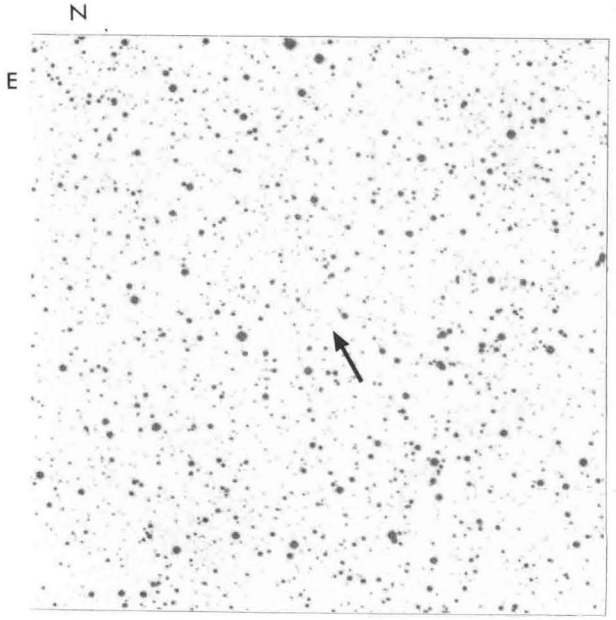
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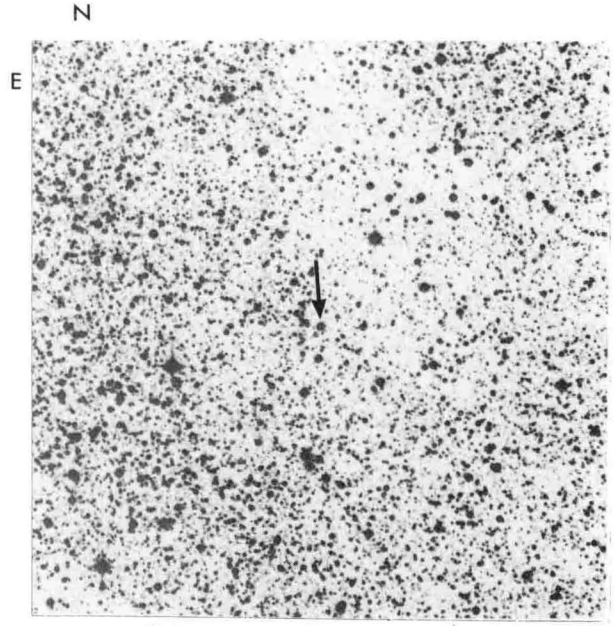
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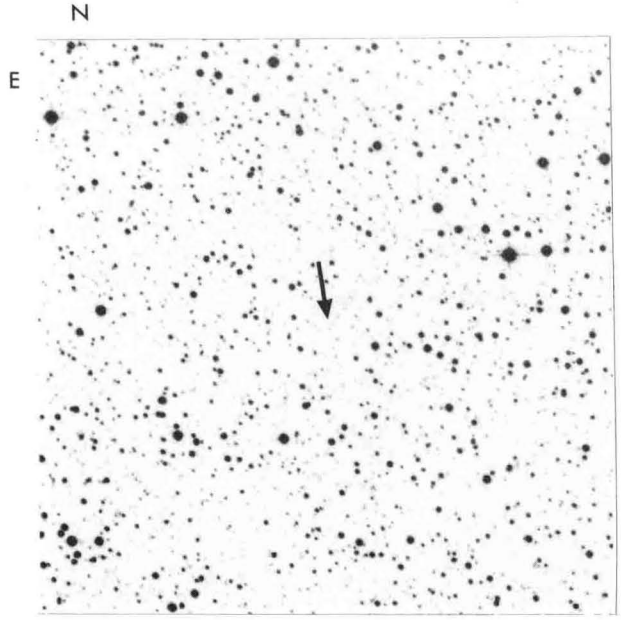
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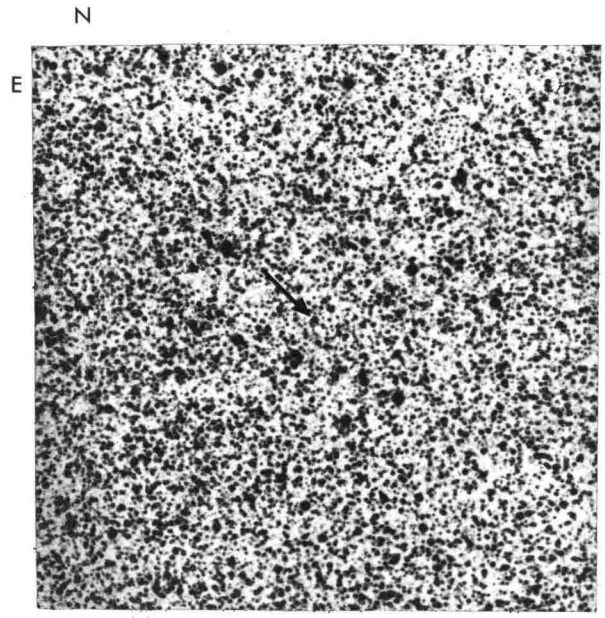
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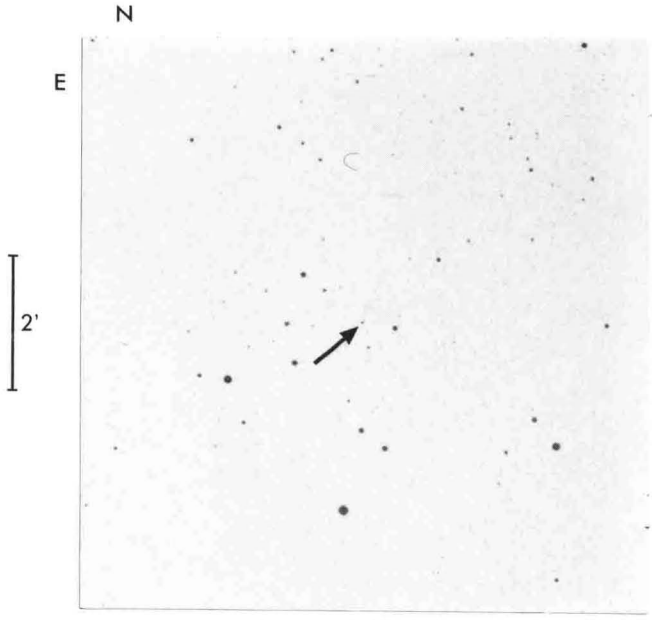
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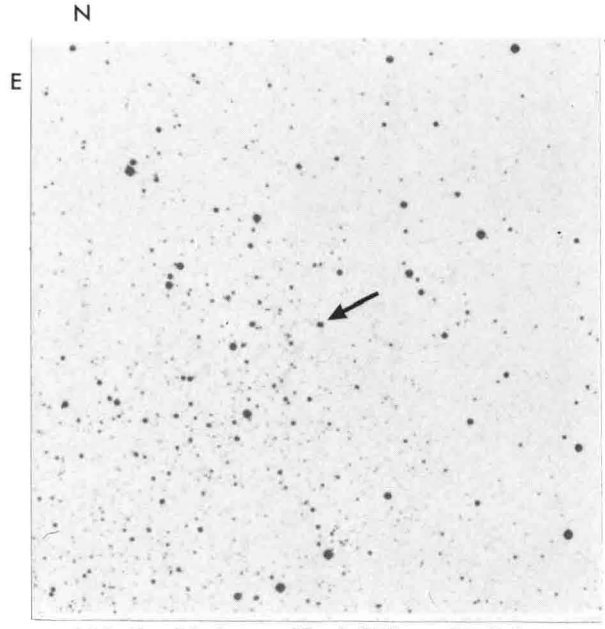
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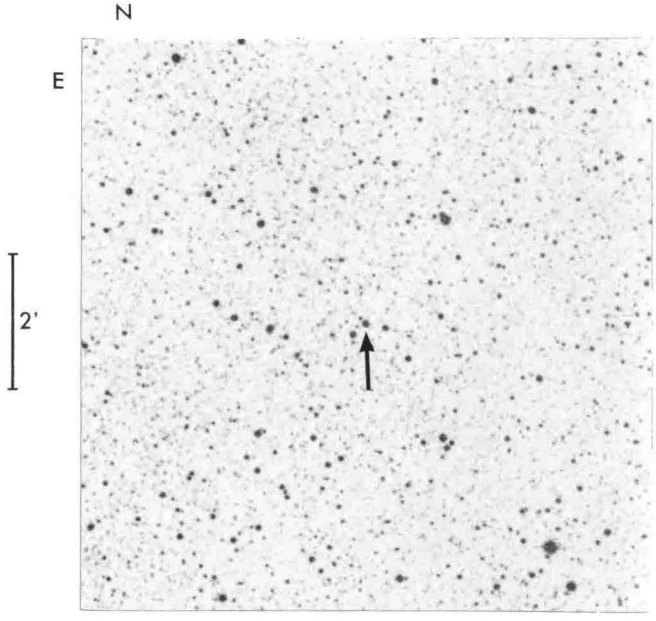
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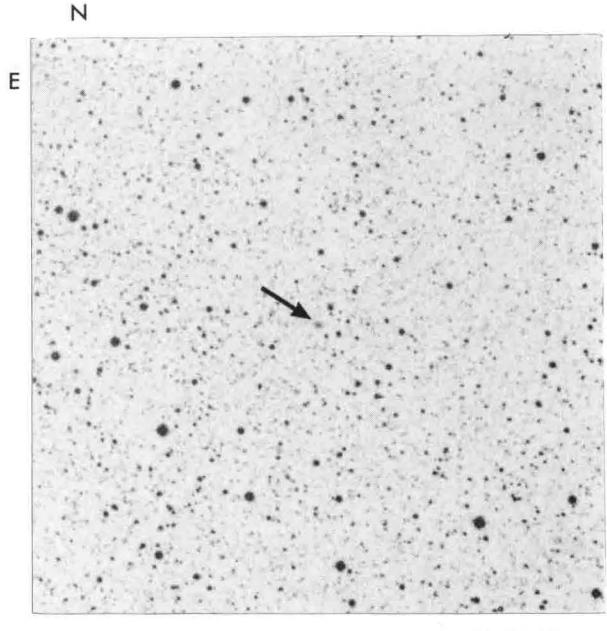
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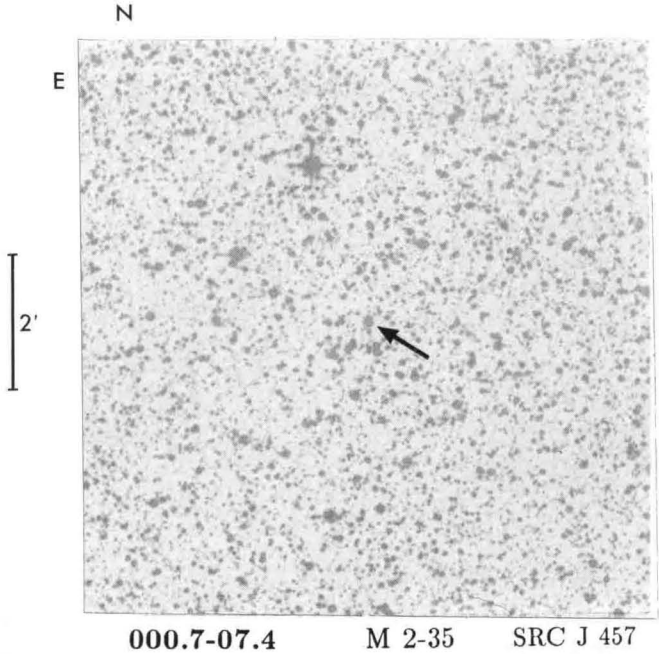
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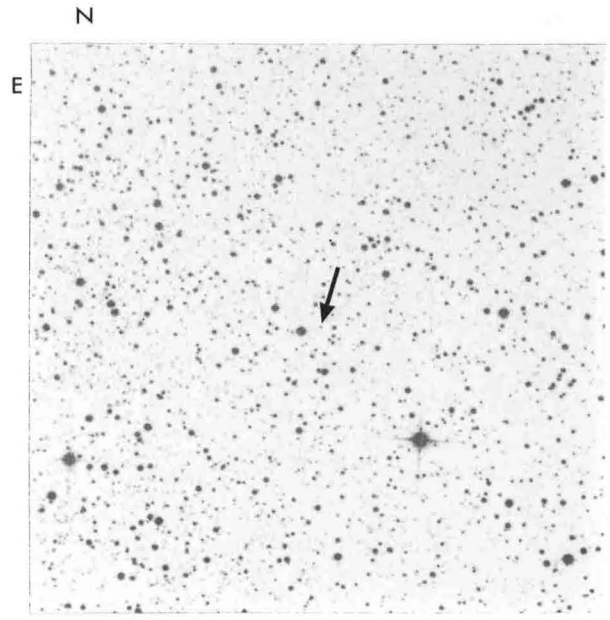
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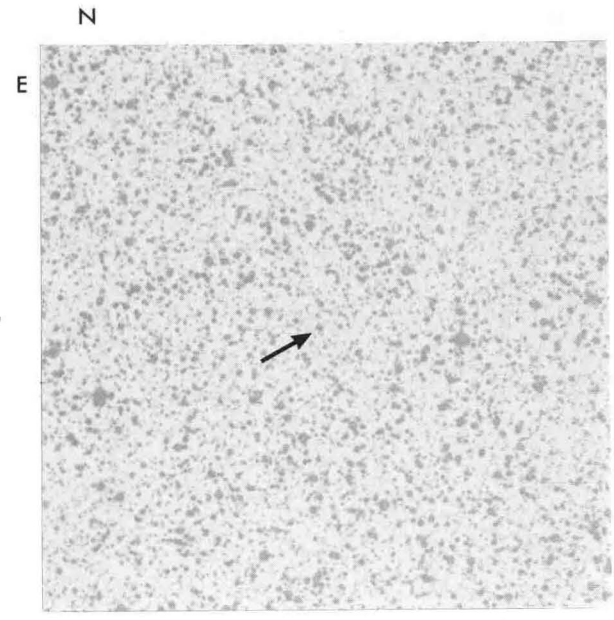
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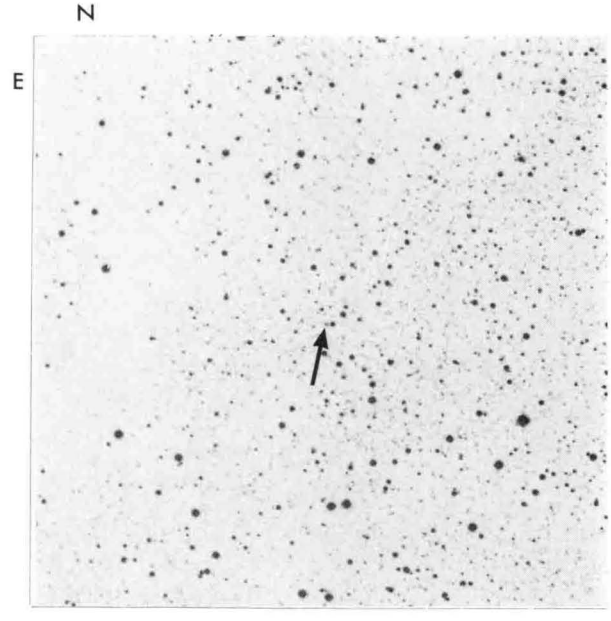
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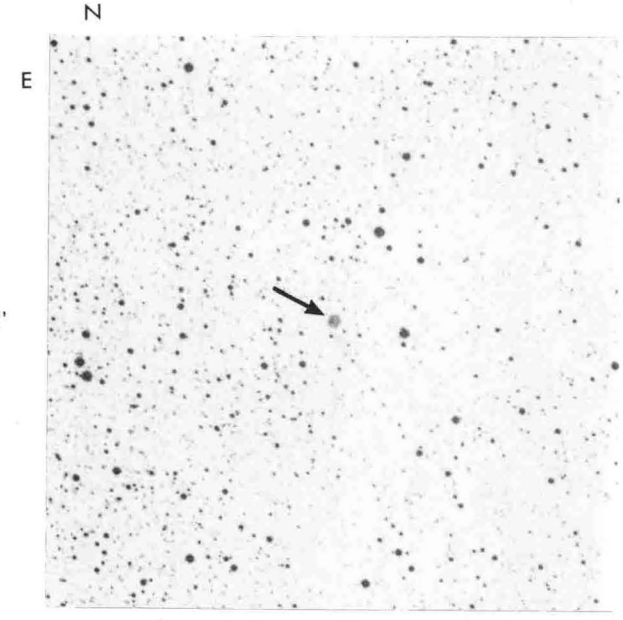
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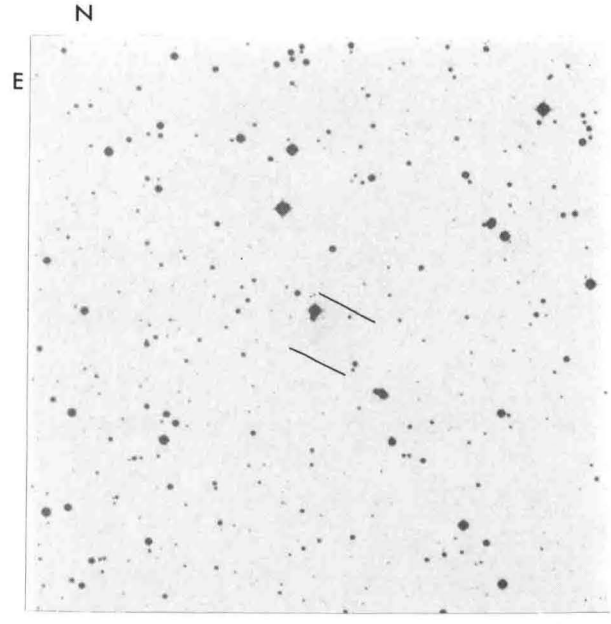
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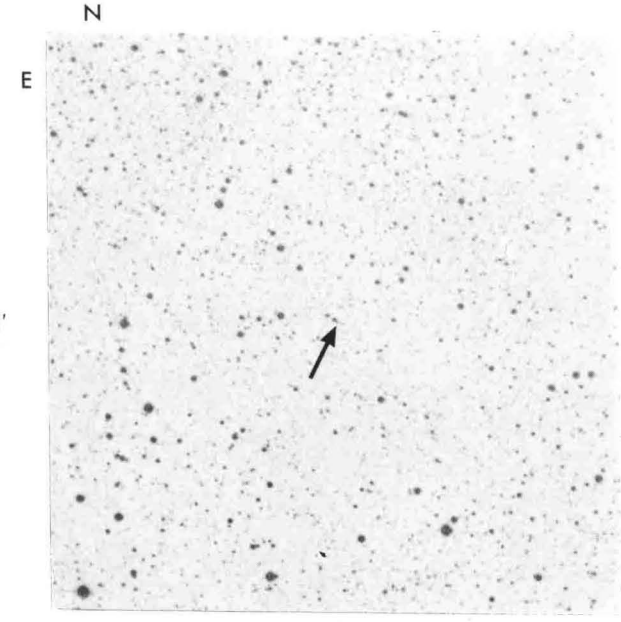
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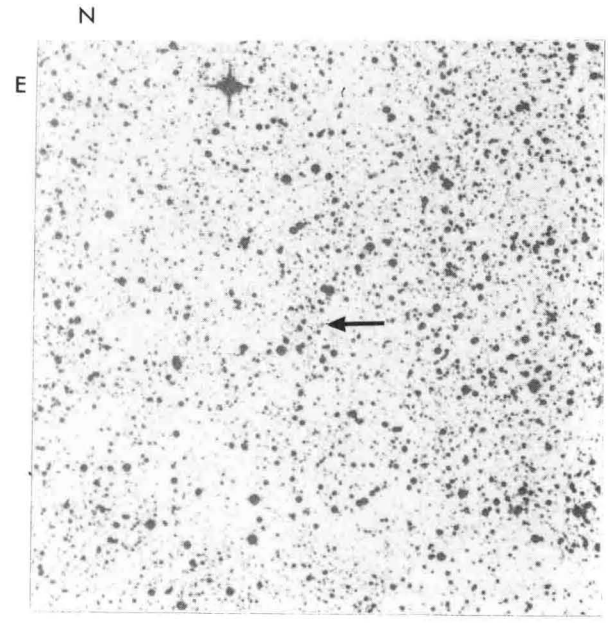
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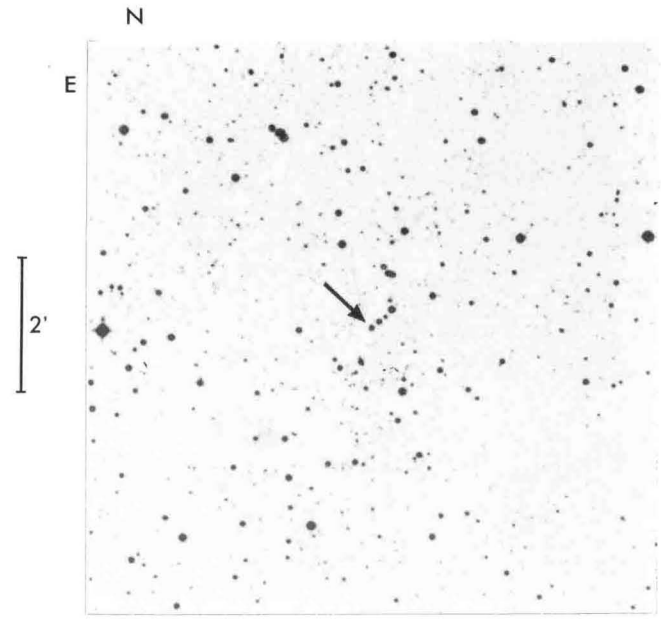
001.0+01.9 K 1- 4 SRC J 520



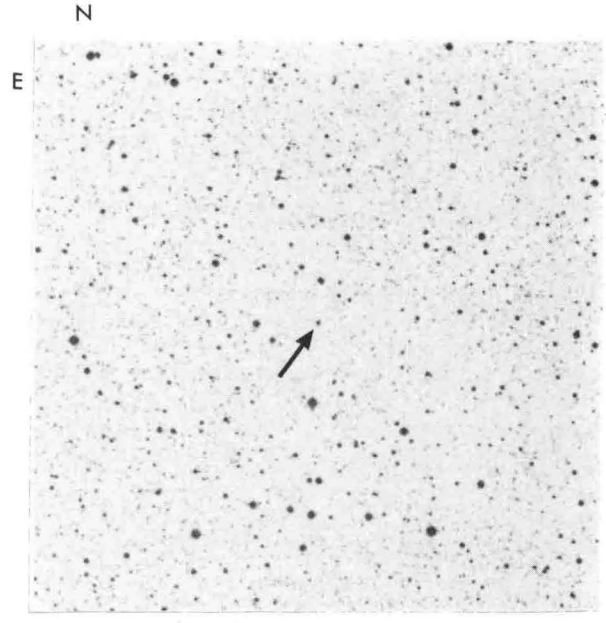
001.0-02.6 Sa 3-104 ESO B 456



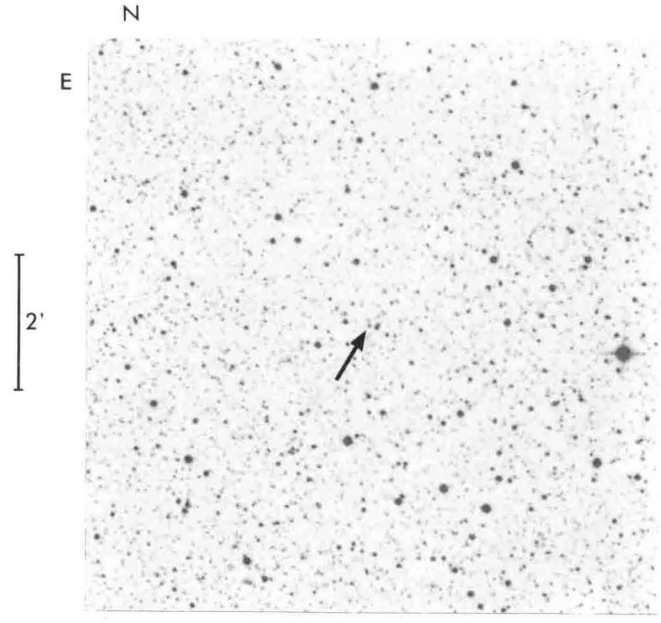
001.1-01.6 Sa 3- 92 SRC J 456



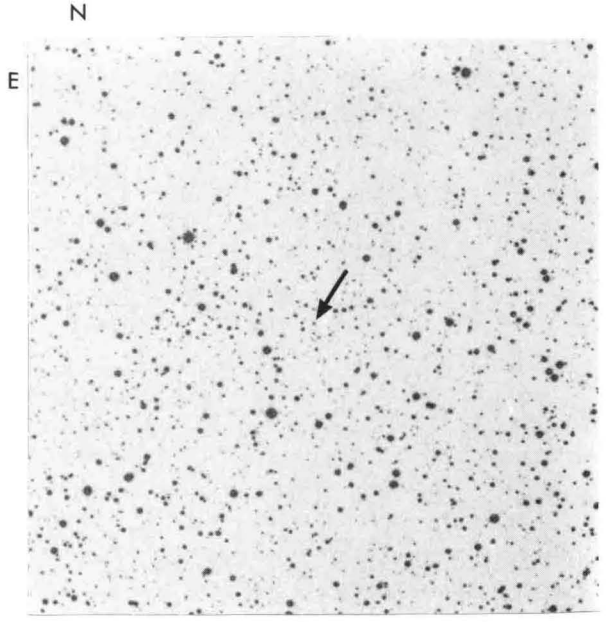
001.2+02.1 He 2- 262 SRC J 520



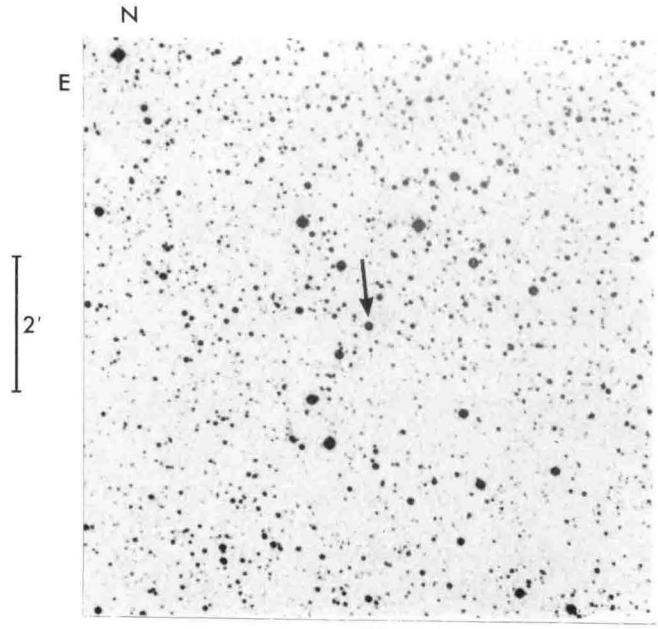
001.2-03.0 H 1-47 ESO B 456



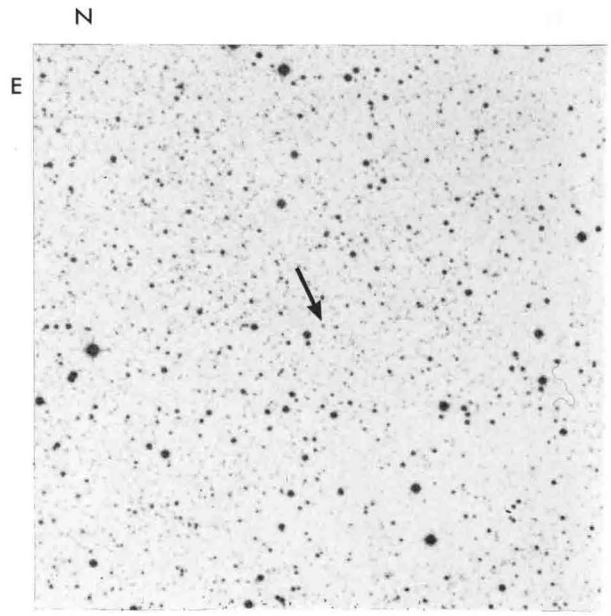
001.2-03.9 ShWi 5 ESO B 456



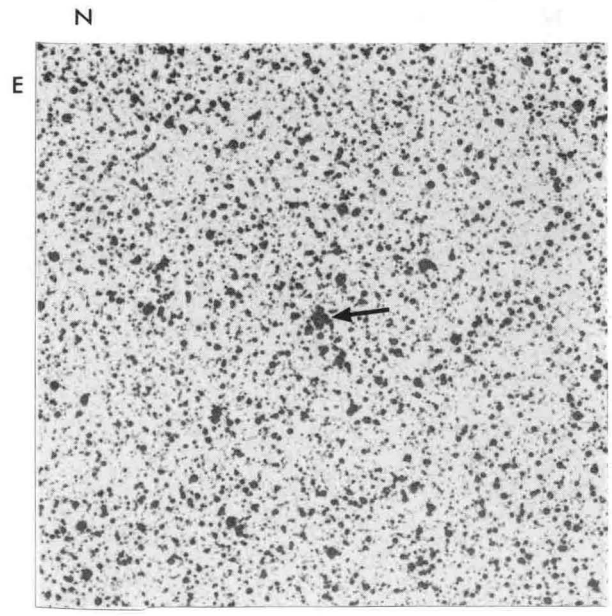
001.3-01.2 Bl M ESO B 456



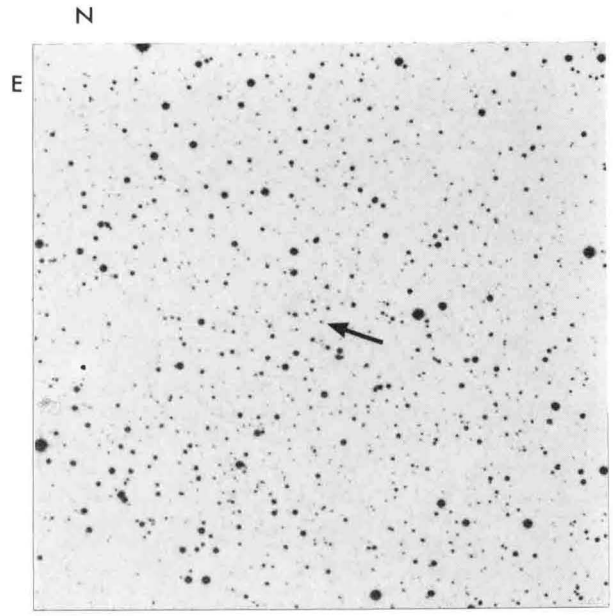
001.4+05.3 H 1-15 SRC J 520



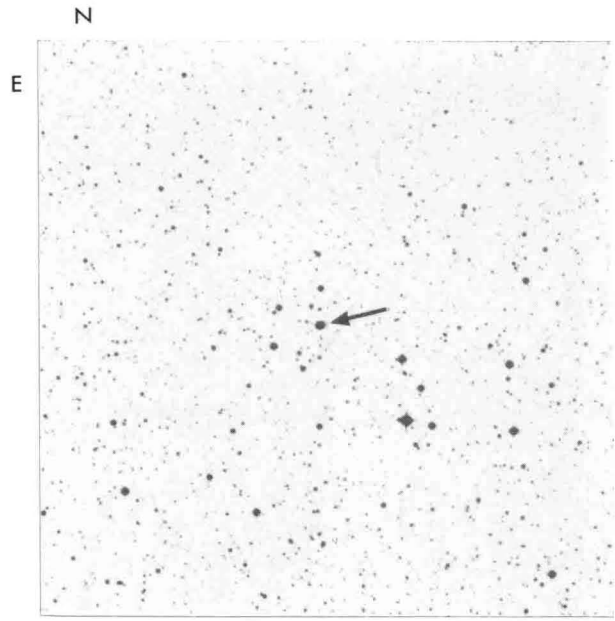
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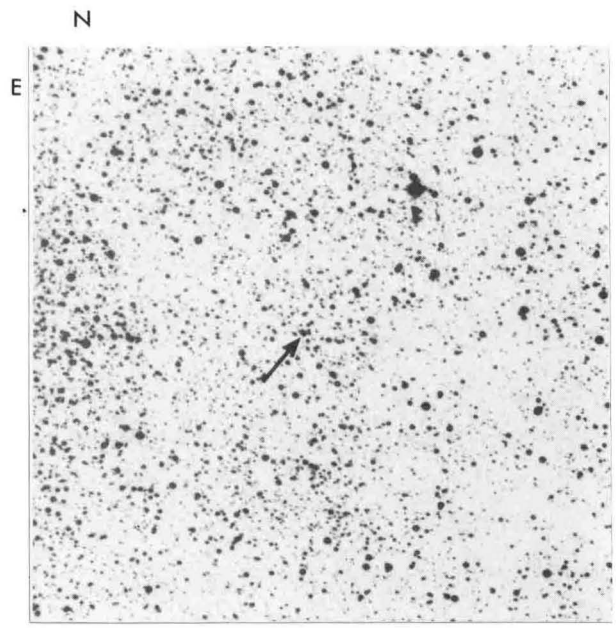
001.5-06.7 SwSt 1 SRC J 457



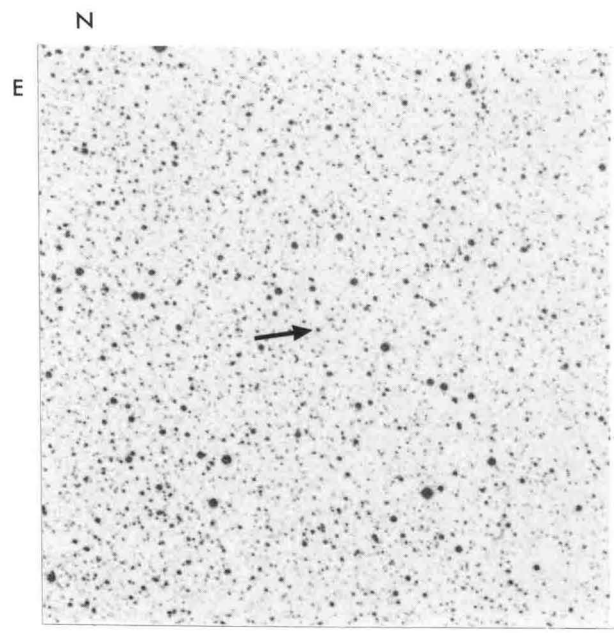
001.6-01.3 Bl Q ESO B 456



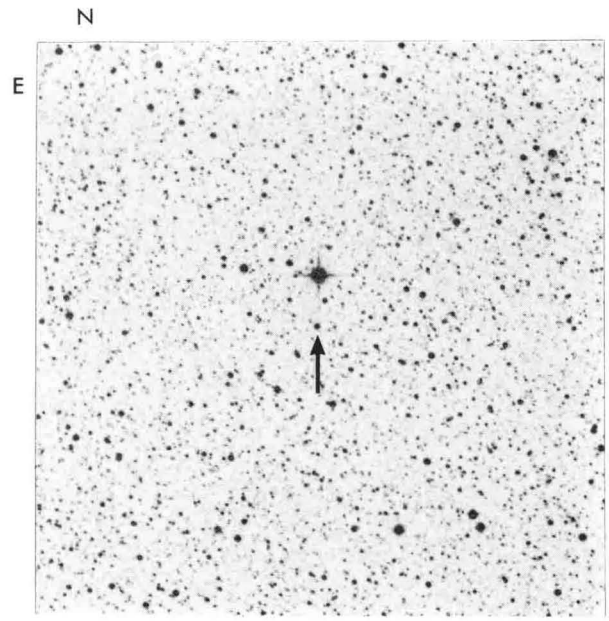
001.7+05.7 H 1-14 SRC J 519



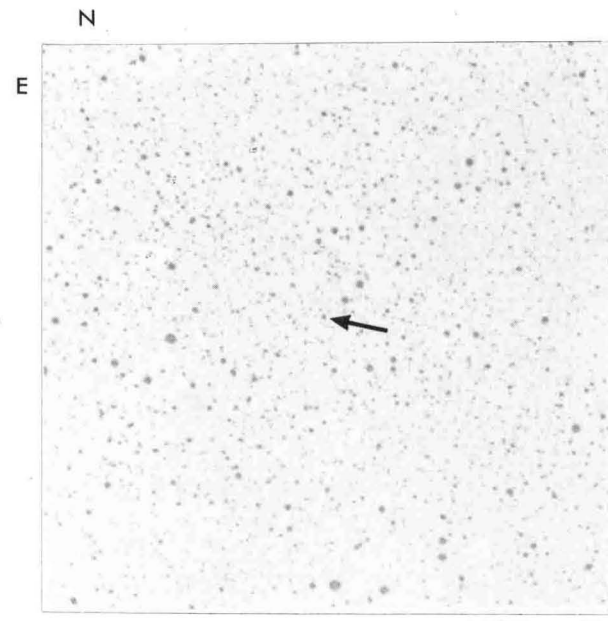
001.7-01.6 H 2-31 ESO R 456



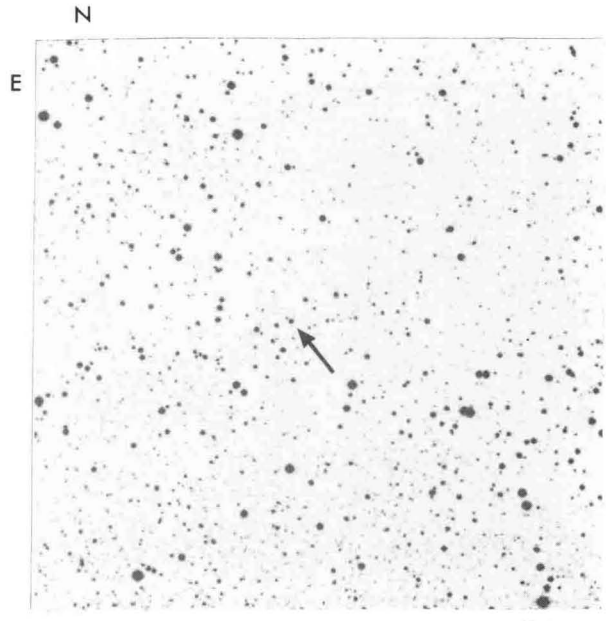
001.7-04.4 H 1-55 ESO B 456



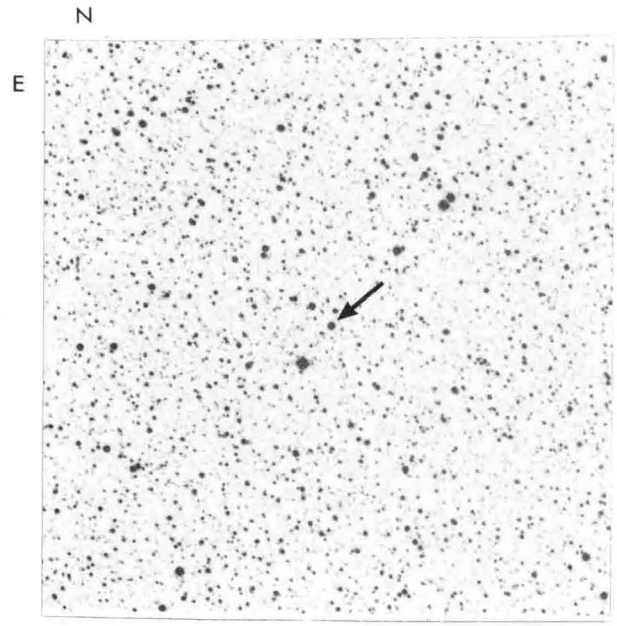
001.7-04.6 H 1-56 ESO B 456



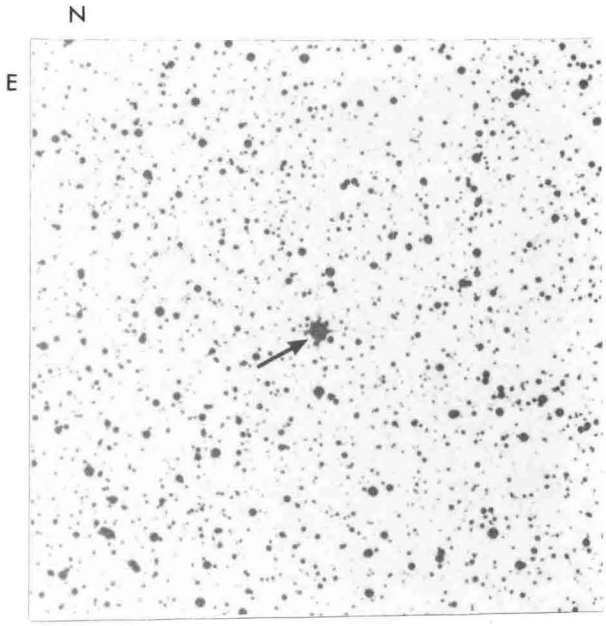
001.8-03.8 ShWi 7 ESO B 456



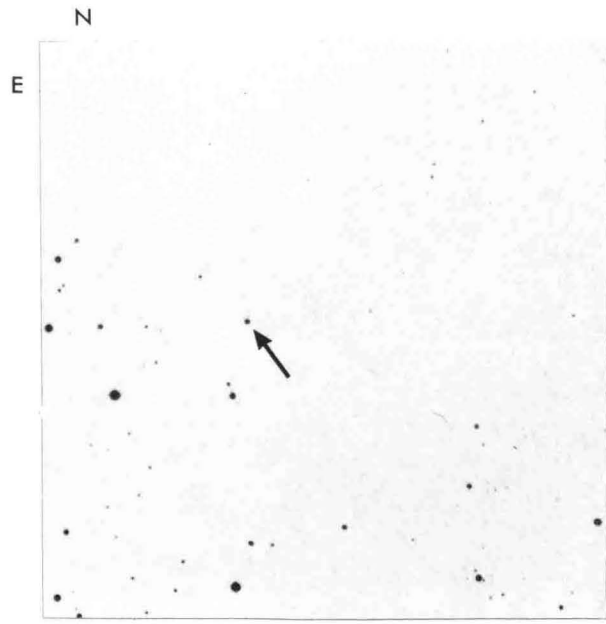
002.0-02.0 H 1-45 ESO B 456



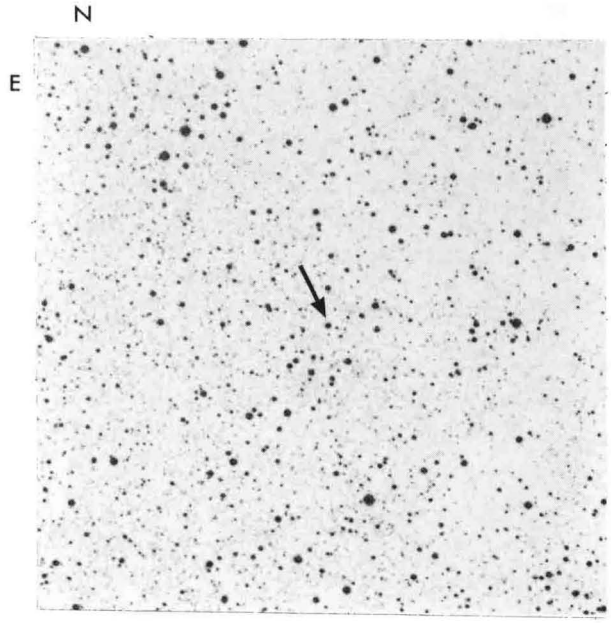
002.0-06.2 M 2-33 ESO B 456



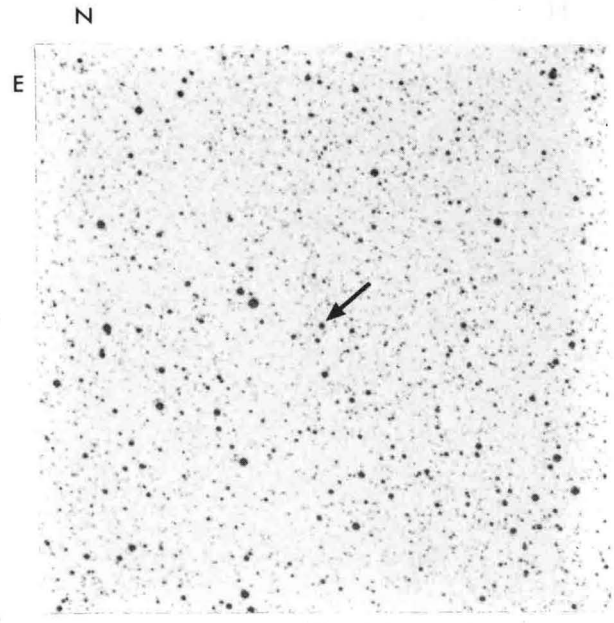
002.0-13.4 IC 4776 SRC J 396



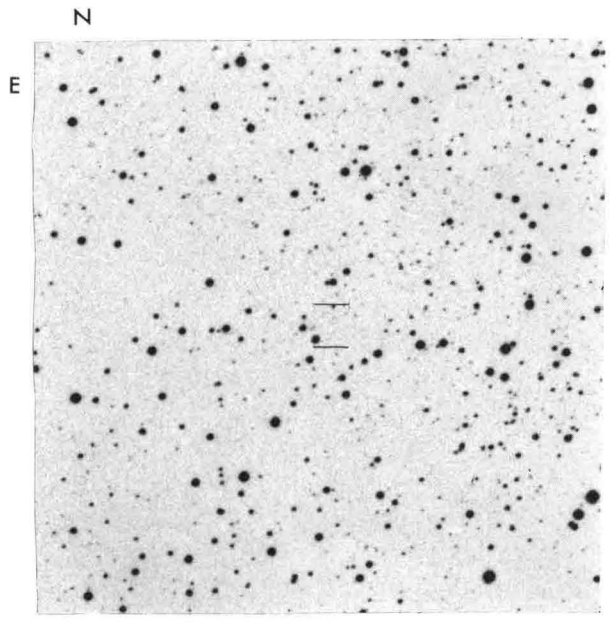
002.1+03.3 PBOZ 24 SRC J 520



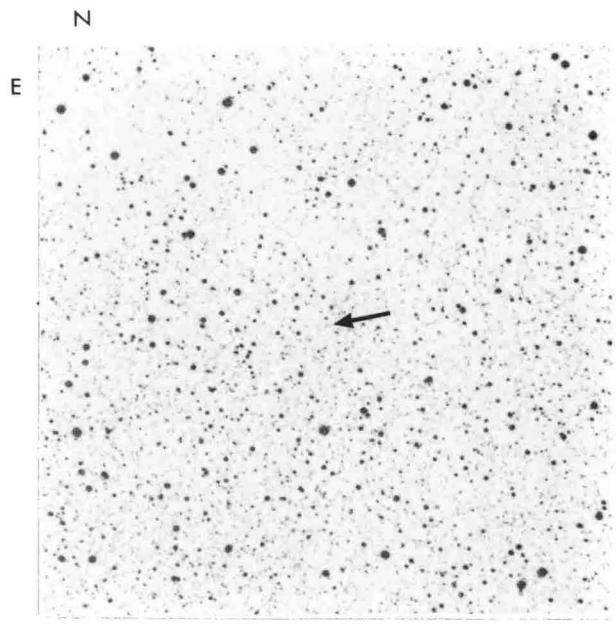
002.1-02.2 M 3-20 ESO B 456



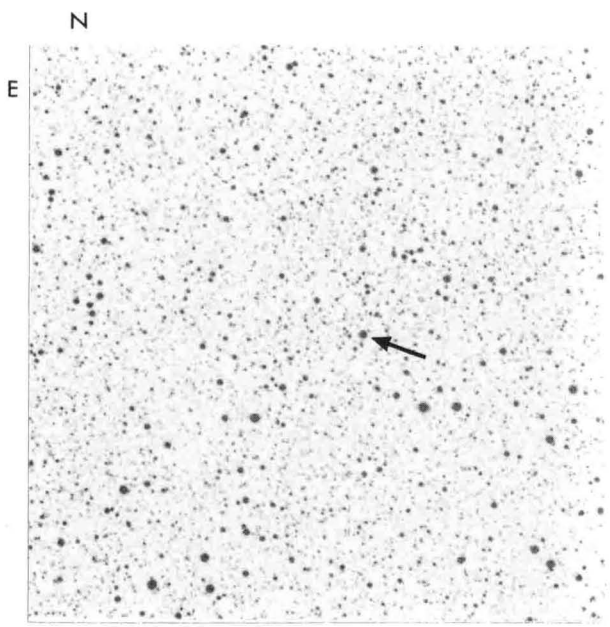
002.1-04.2 H 1-54 ESO B 456



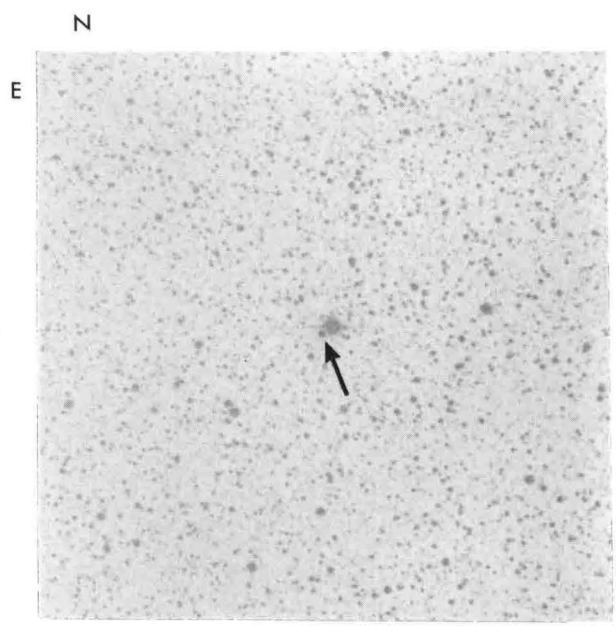
002.2+00.5 Te 2337 Trz R



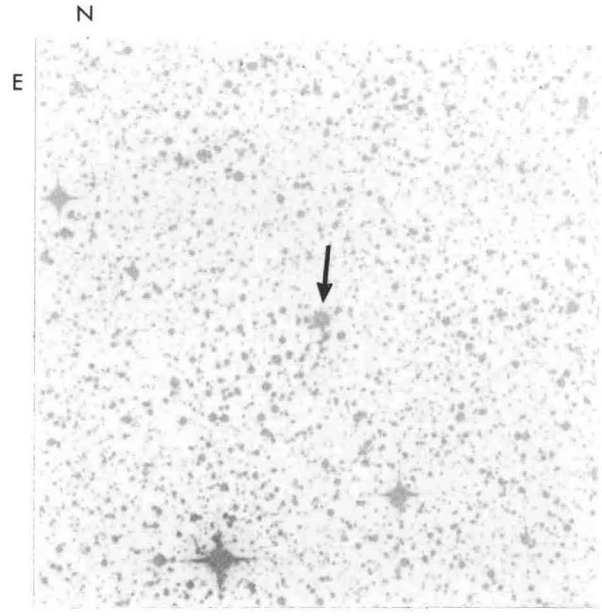
002.2-02.5 KFL 2 ESO B 456



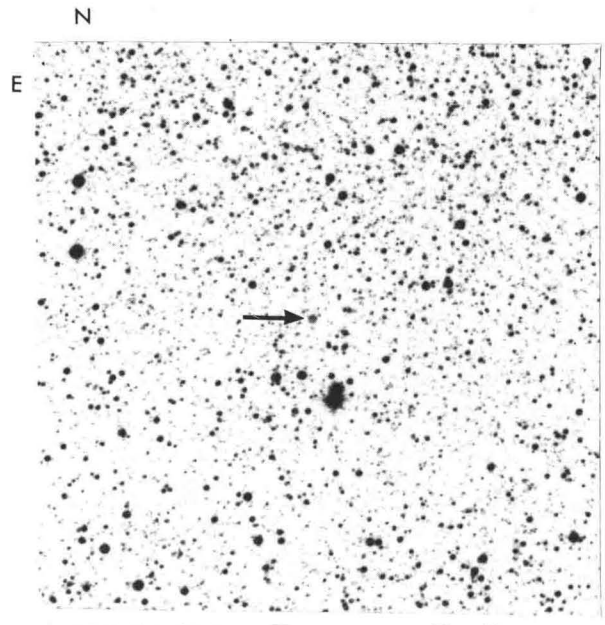
002.2-02.7 M 2-23 ESO B 456



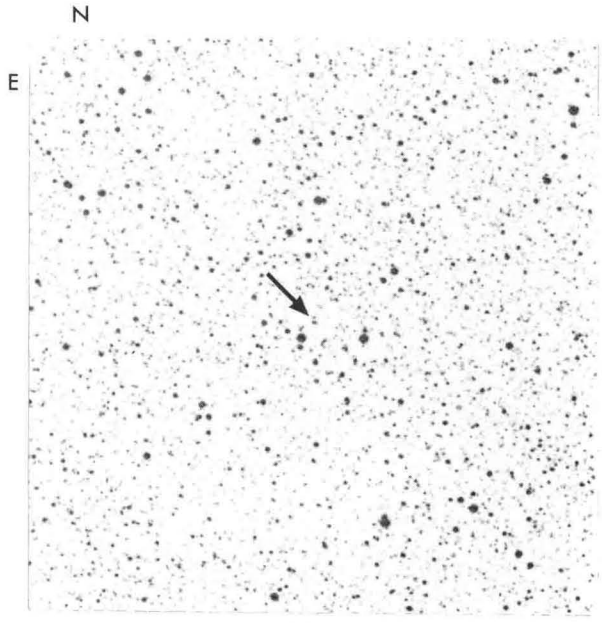
002.2-06.3 H 1-63 SRC J 457



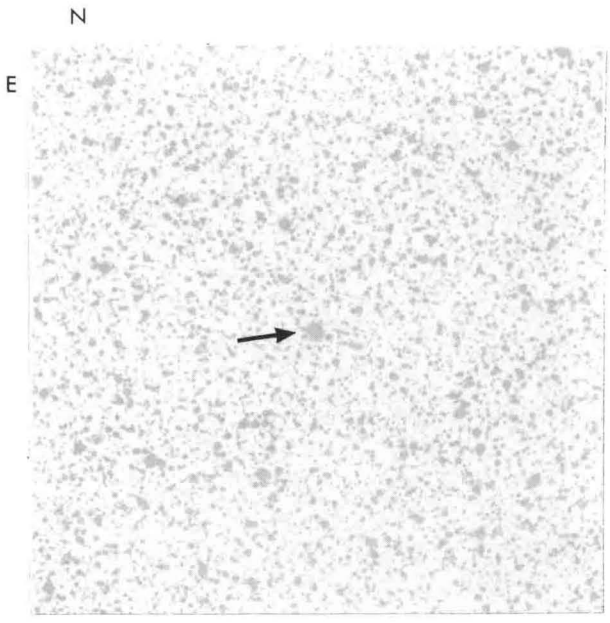
002.2-09.4 Cn 1-5 SRC J 457



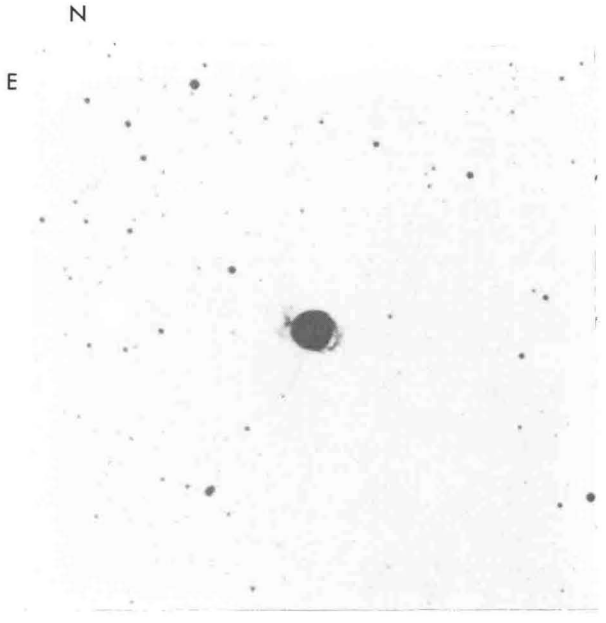
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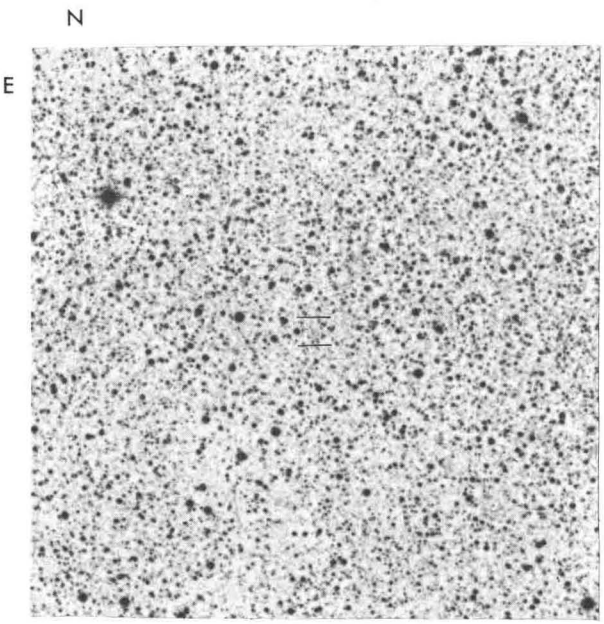
002.3-03.4 H 2-37 ESO B 456



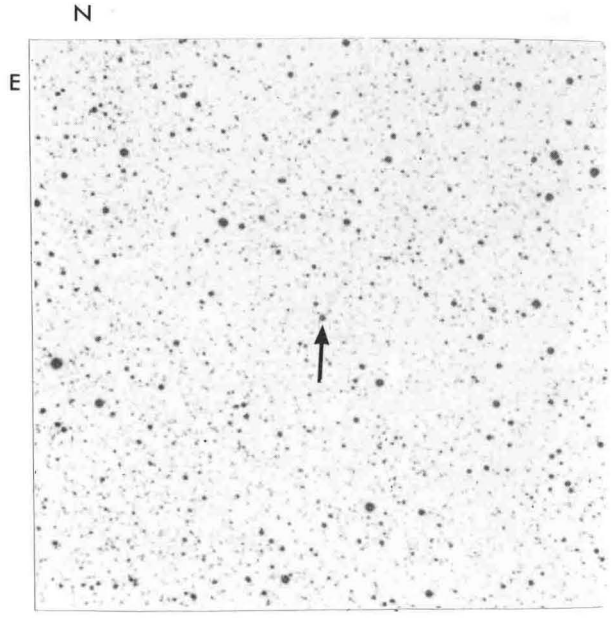
002.3-07.8 M 2-41 SRC J 457



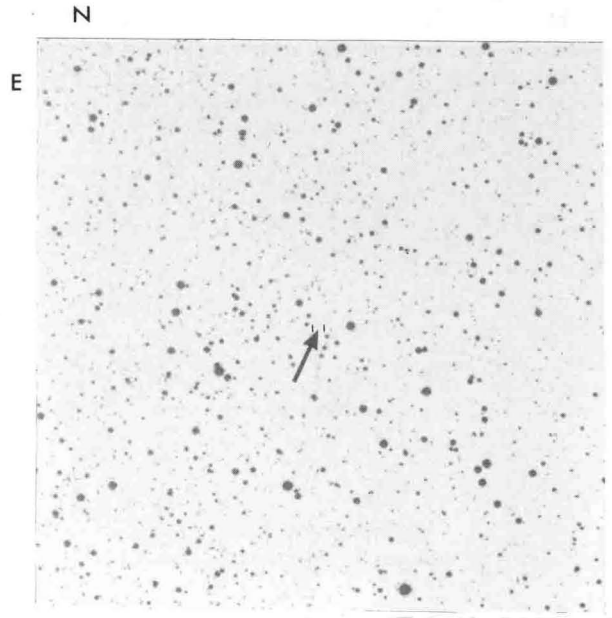
002.4+05.8 NGC 6369 SRC J 520



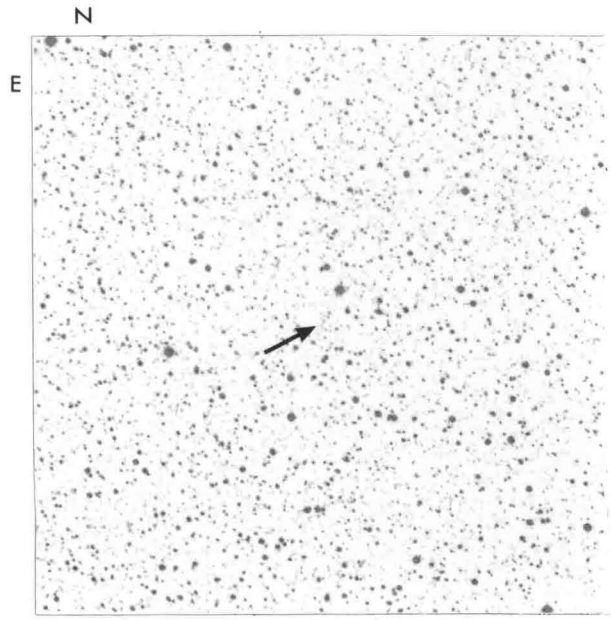
002.4–03.2 Wra 17-107 ESO B 456



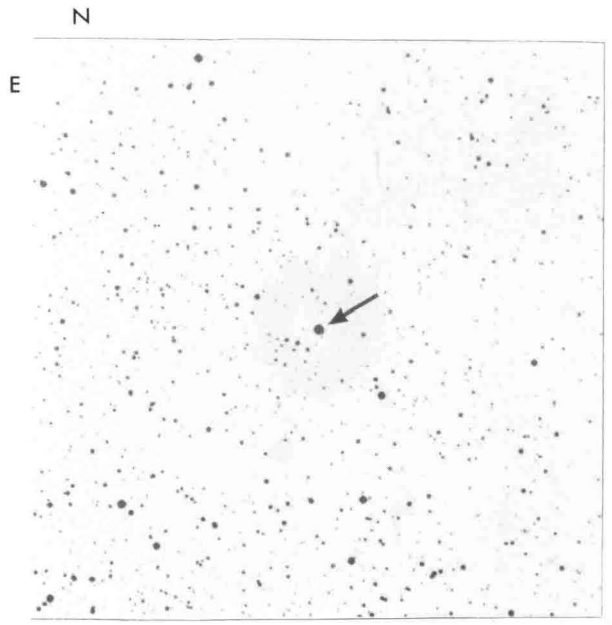
002.4-03.7 M 1-38 ESO B 456



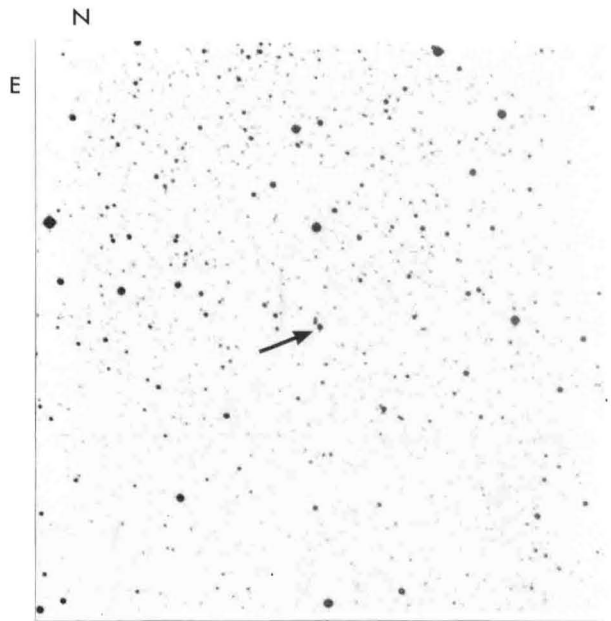
002.5-01.7 Pe 2-11 SRC J 521



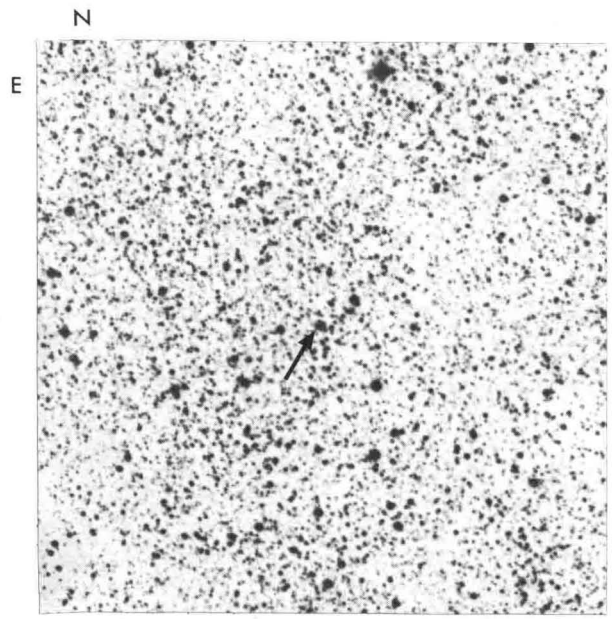
002.5-05.4 KFL 14 ESO B 456



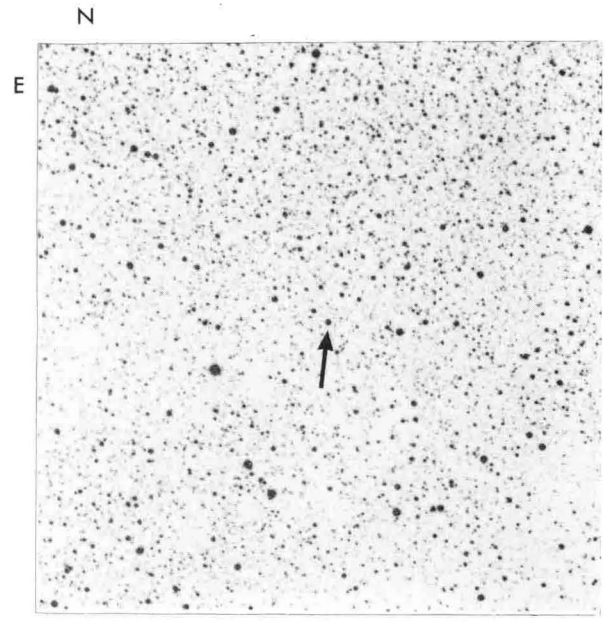
002.6+08.1 H 1-11 SRC J 519



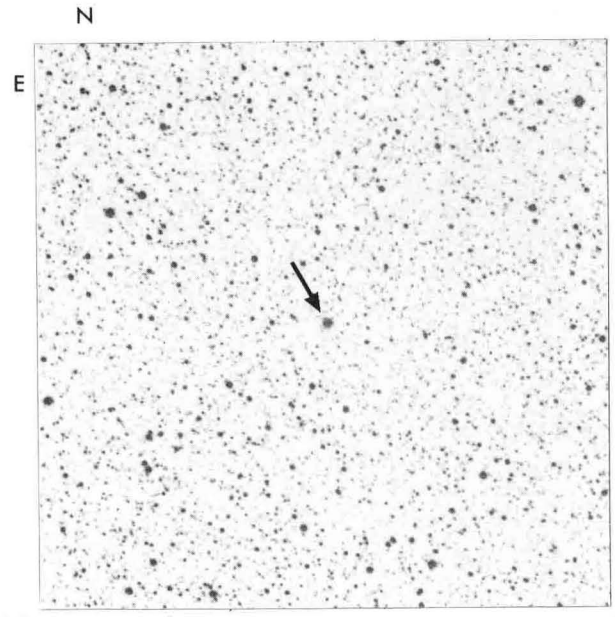
002.6+04.2 Th 3-27 SRC J 520



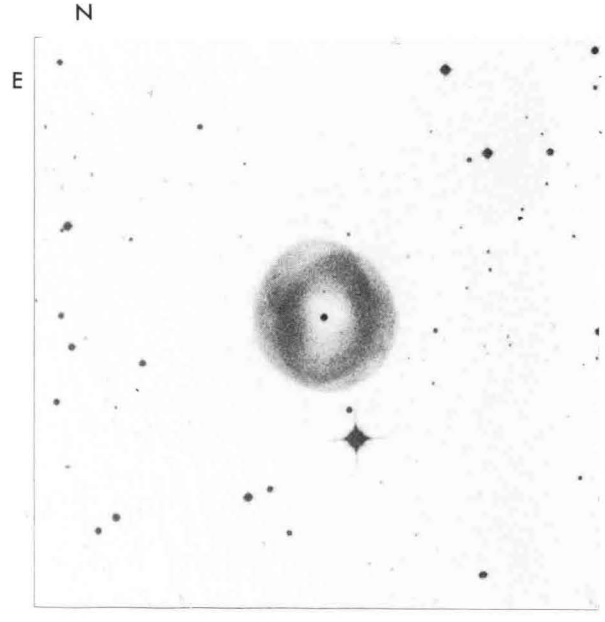
002.6+02.1 Te 1580 ESO R520



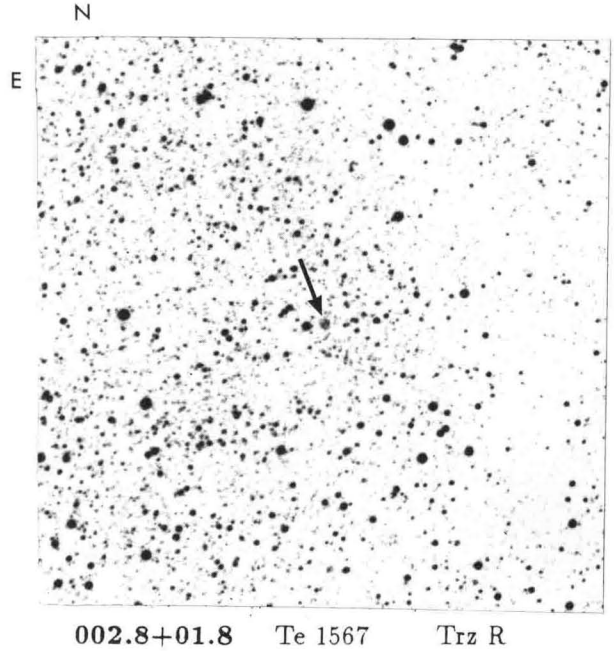
002.6-03.4 M 1-37 ESO B 456



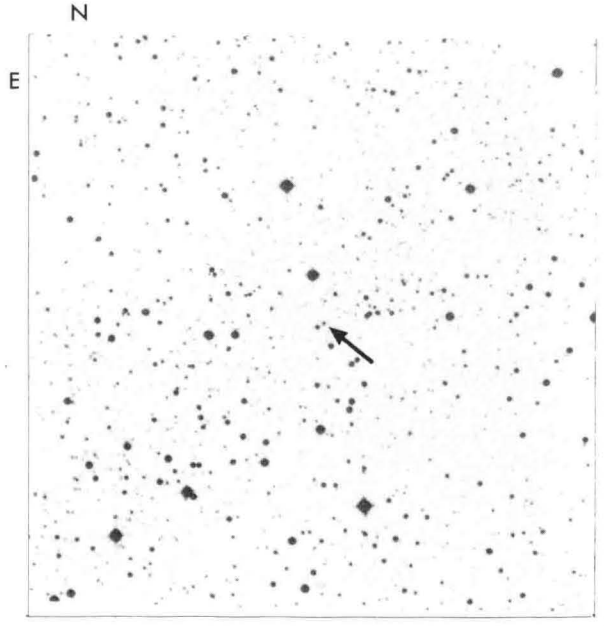
002.7-04.8 M 1-42 ESO B 456



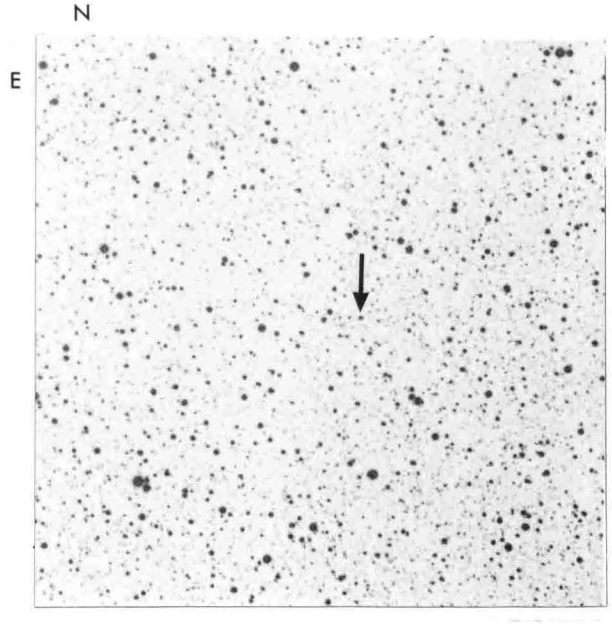
002.7-52.4 IC 5148-50 SRC J 344



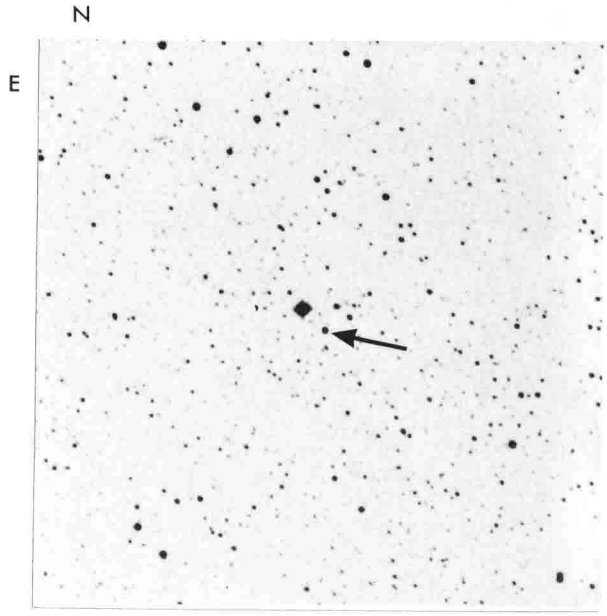
002.8+01.8 Te 1567 Trz R



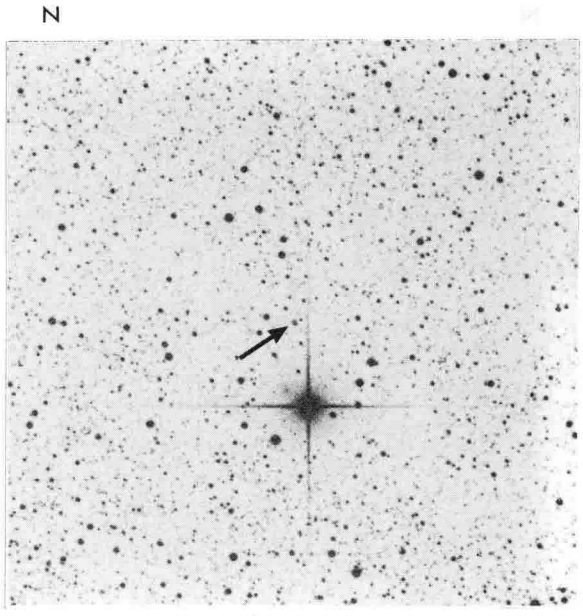
002.8+01.7 H 2-20 SRC J 520



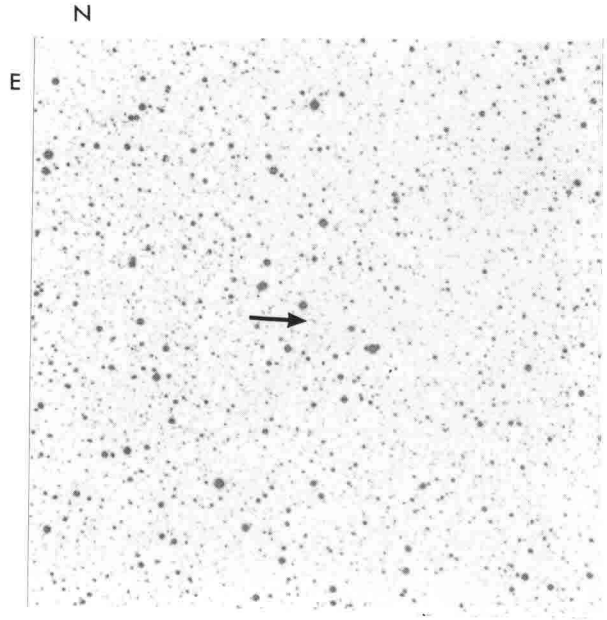
002.8-02.2 Pe 2-12 ESO B 456



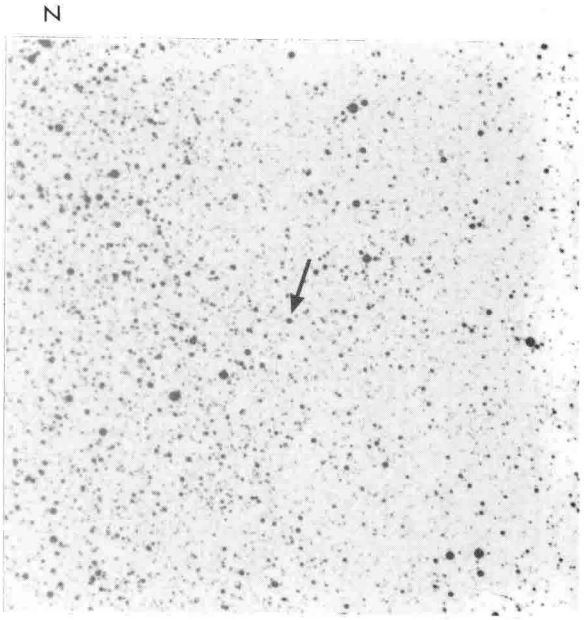
002.9+06.5 PBOZ 6 SRC J 520



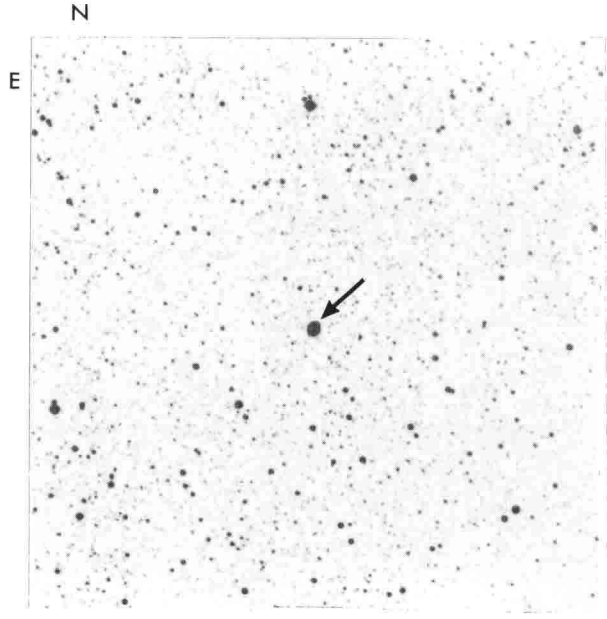
002.9-03.9 H 2-39 ESO B 456



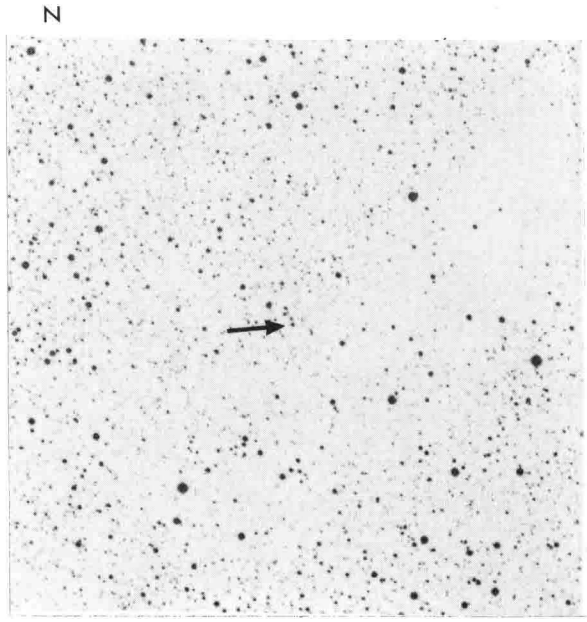
003.0-02.6 KFL 4 ESO B 456



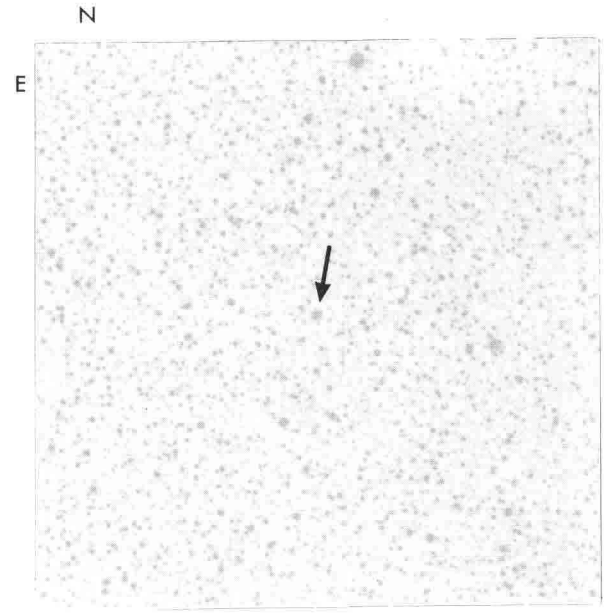
003.1+03.4 H 2-17 SRC J 520



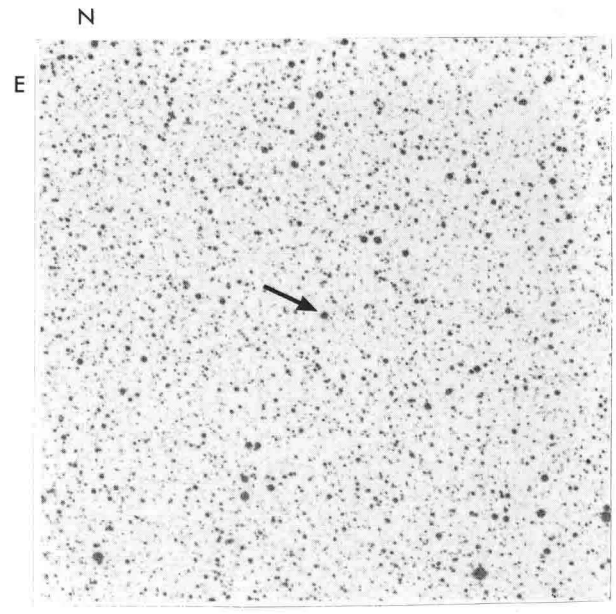
003.1+02.9 Hb 4 SRC J 520



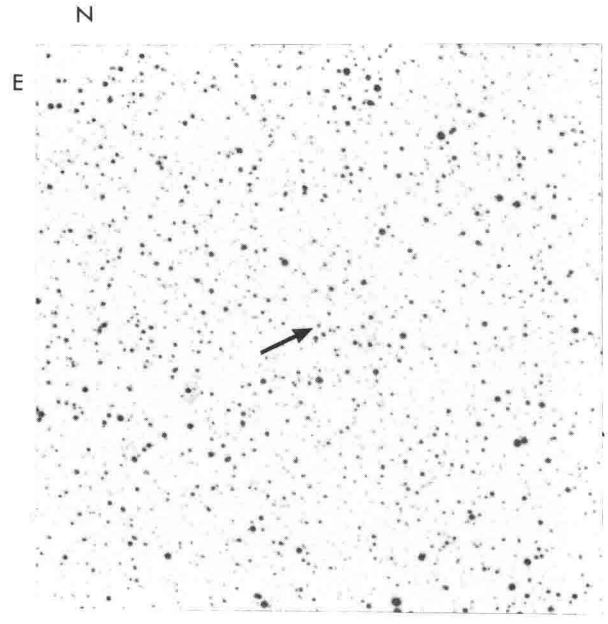
003.2-04.4 KFL 12 ESO B 456



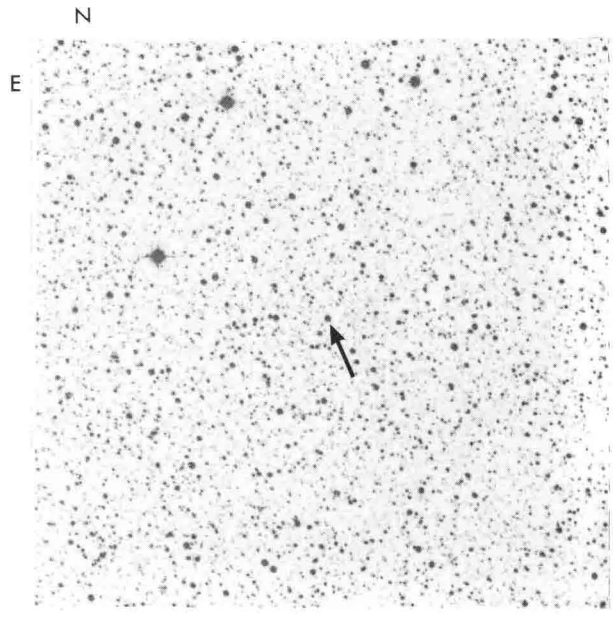
003.2-06.2 M 2-36 ESO B 457



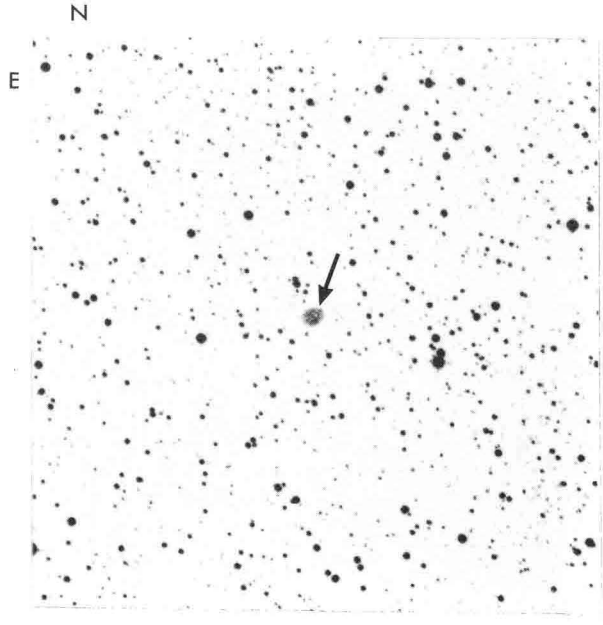
003.3-04.6 Ap 1-12 ESO B 456



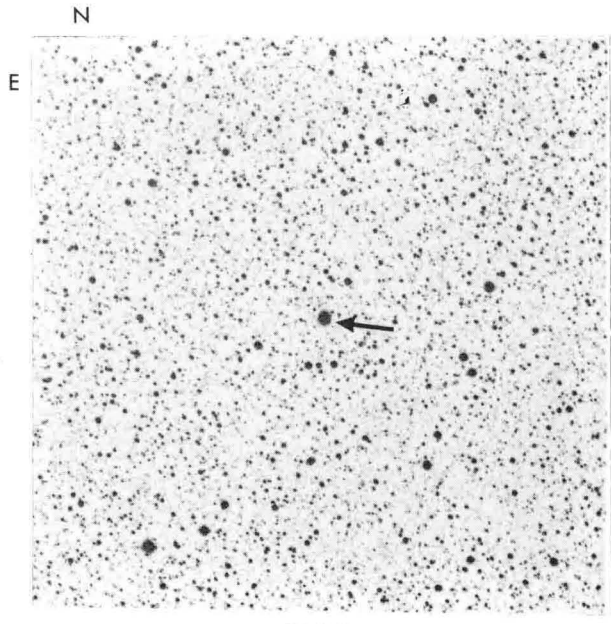
003.3-07.5 KFL 19 ESO B 457



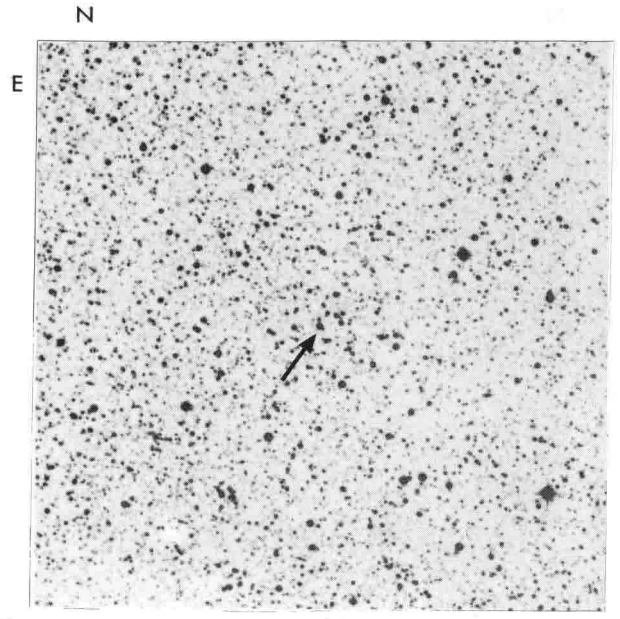
003.4-04.8 H 2-43 ESO B 456



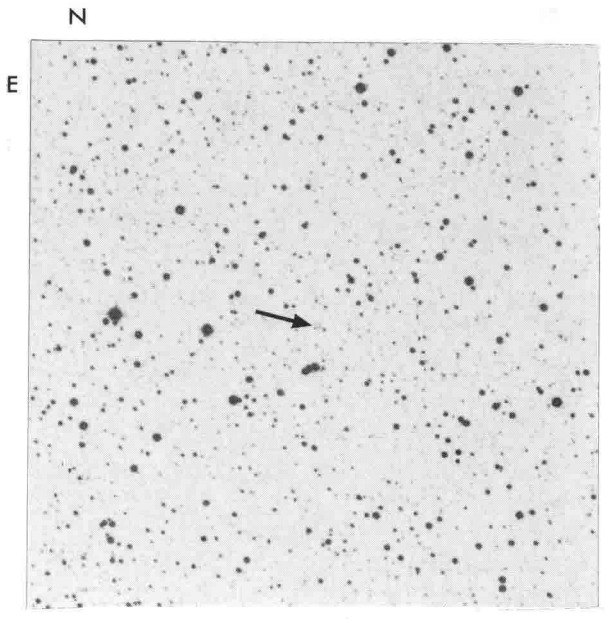
003.5-02.4 IC 4673 ESO B 521



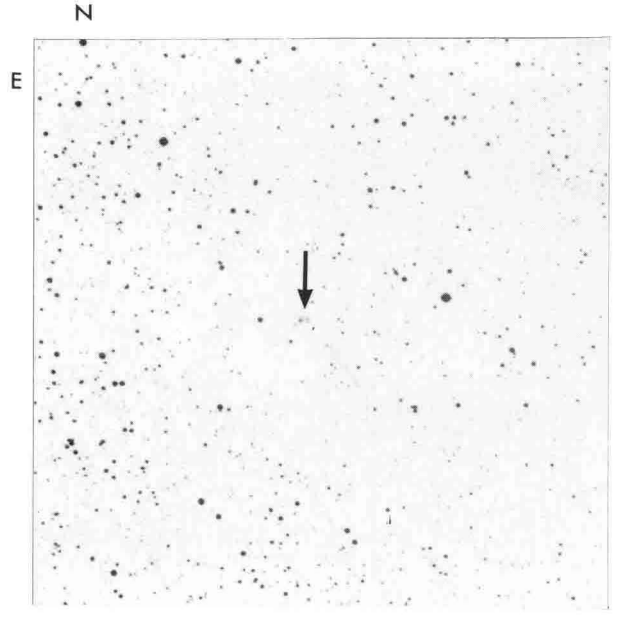
003.5-04.6 NGC 6565 ESO B 456



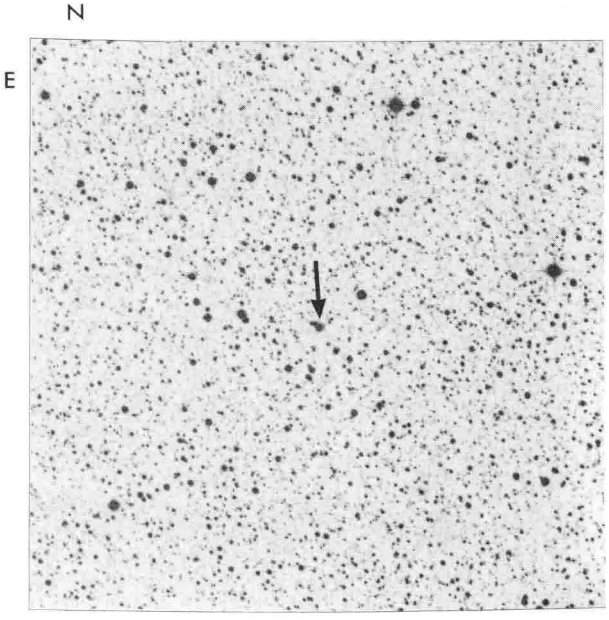
003.6+03.1 M 2-14 SRC J 520



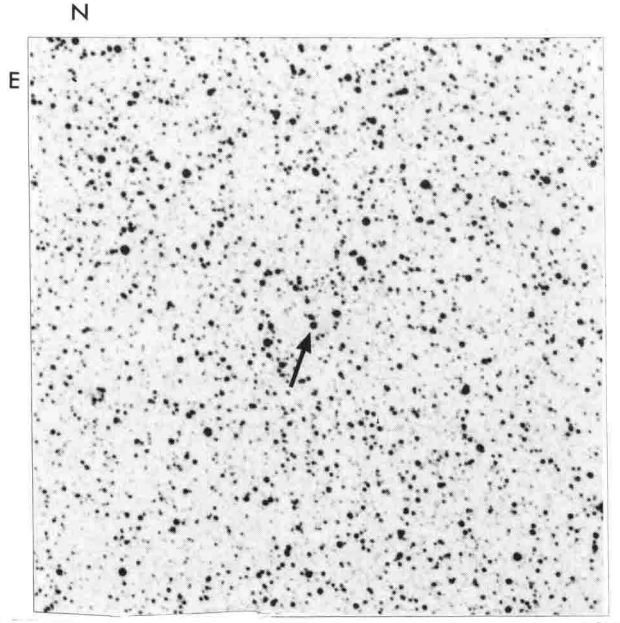
003.6-02.3 M 2-26 ESO B 521



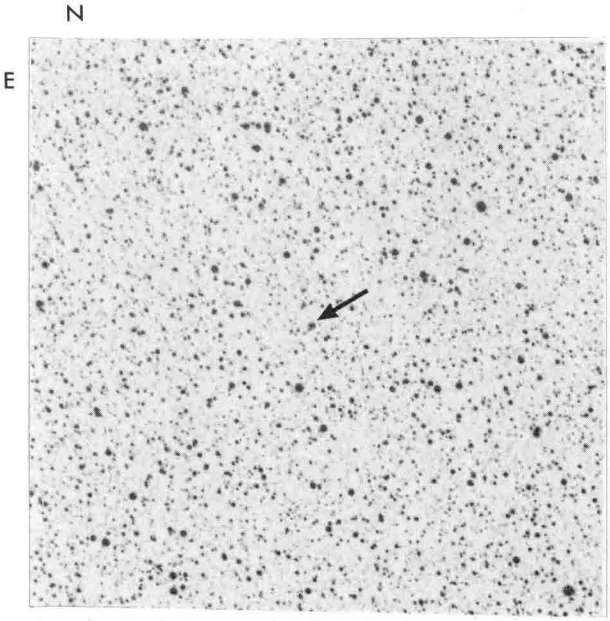
003.7+07.9 H 2-8 SRC J 588



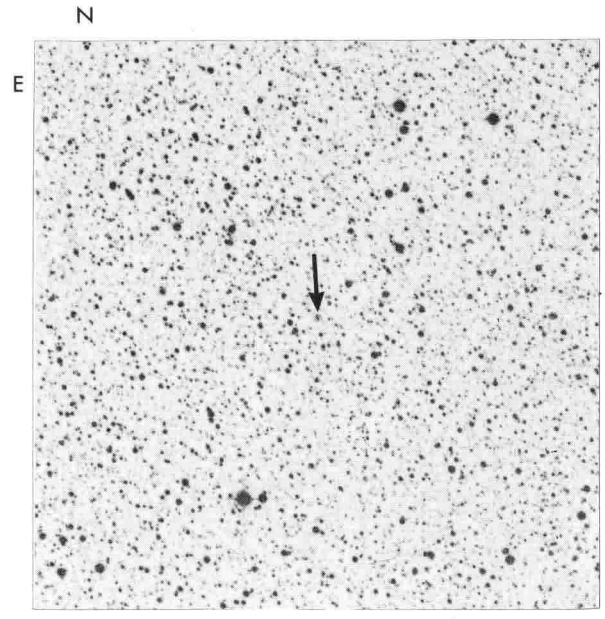
003.7-04.6 M 2-30 ESO B 456



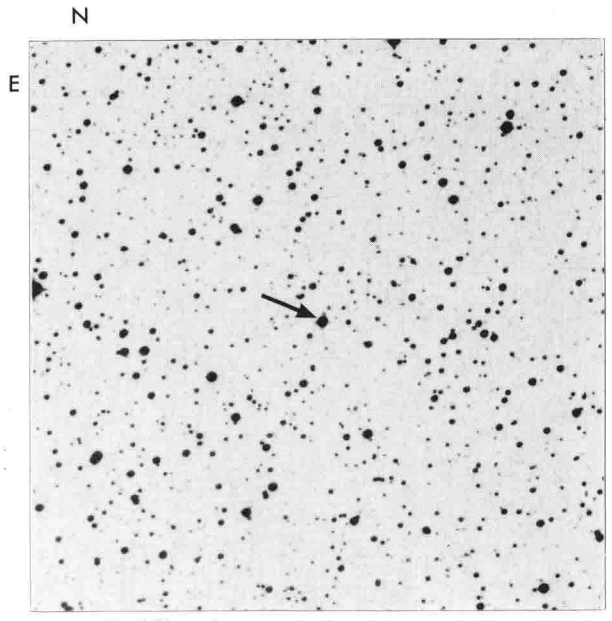
003.8+05.3 H 2-15 SRC J 520



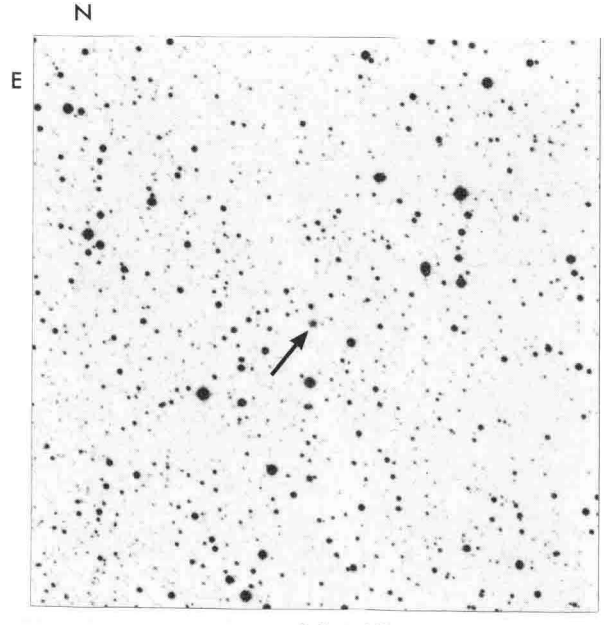
003.8-04.3 H 1-59 ESO B 456



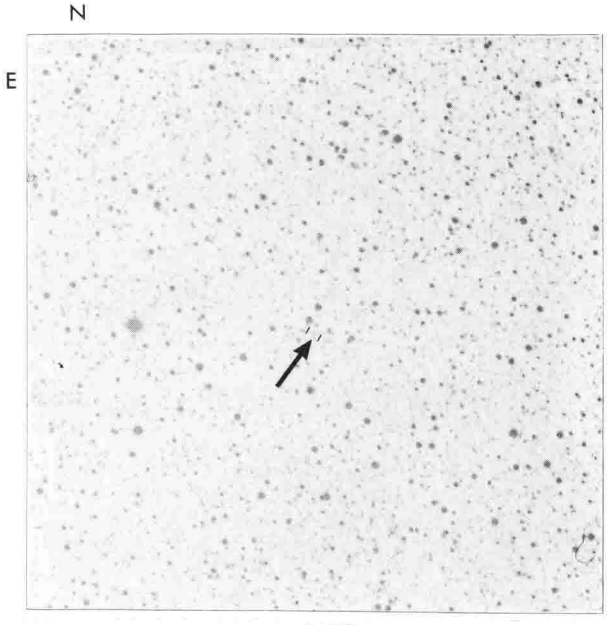
003.8-04.5 H 2-41 ESO B 456



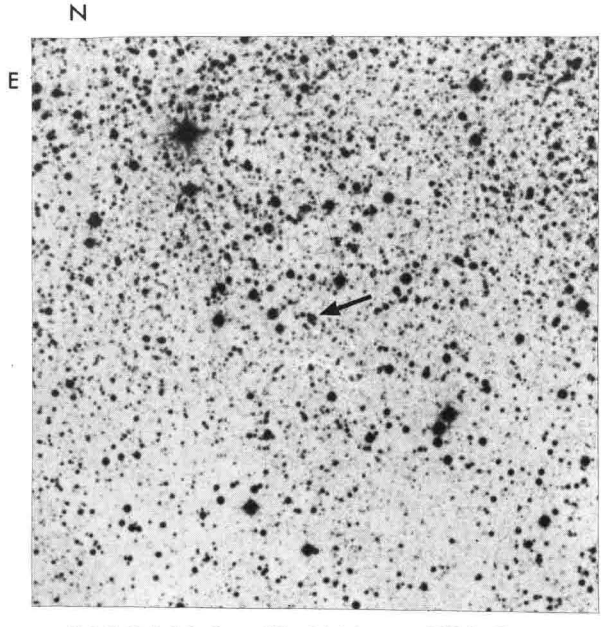
003.8-17.1 Hb 8 SRC J 397



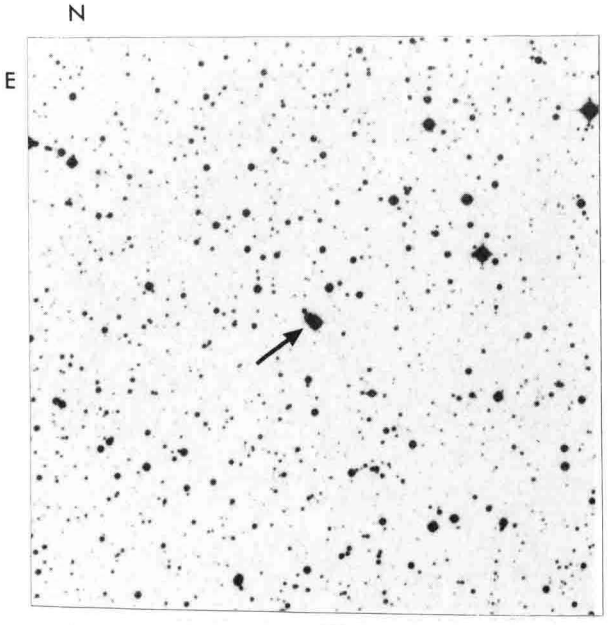
003.9-02.3 M 1-35 ESO B 521



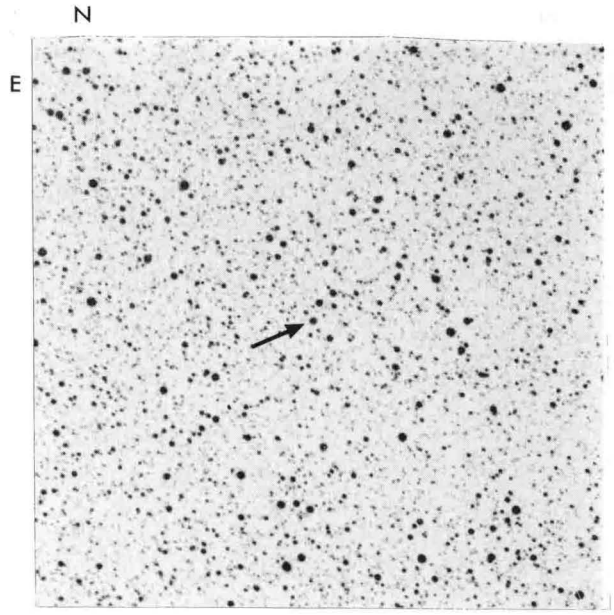
003.9-03.1 KFL 7 ESO B 521



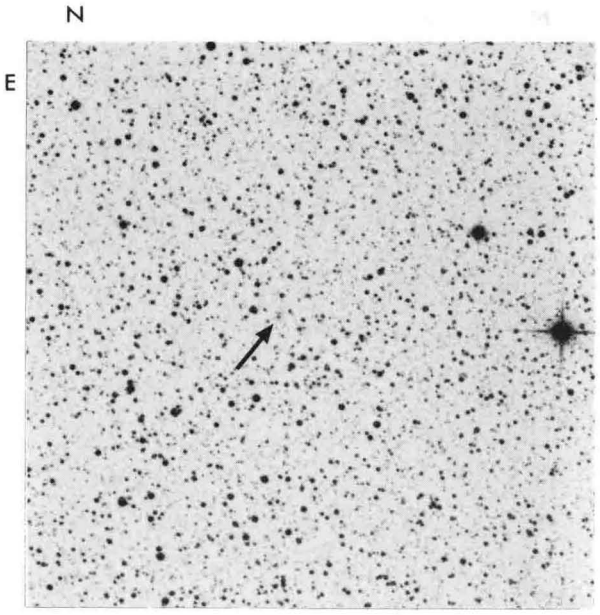
003.9+01.6 Te 2111 ESO R 520



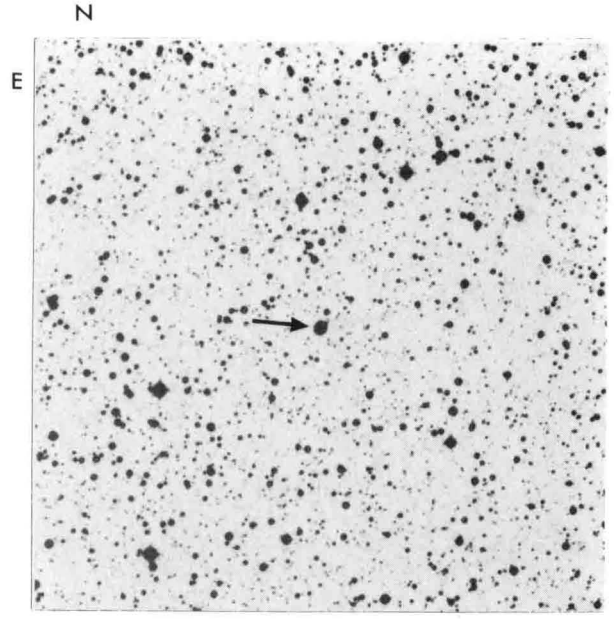
003.9-14.9 Hb 7 SRC J 458



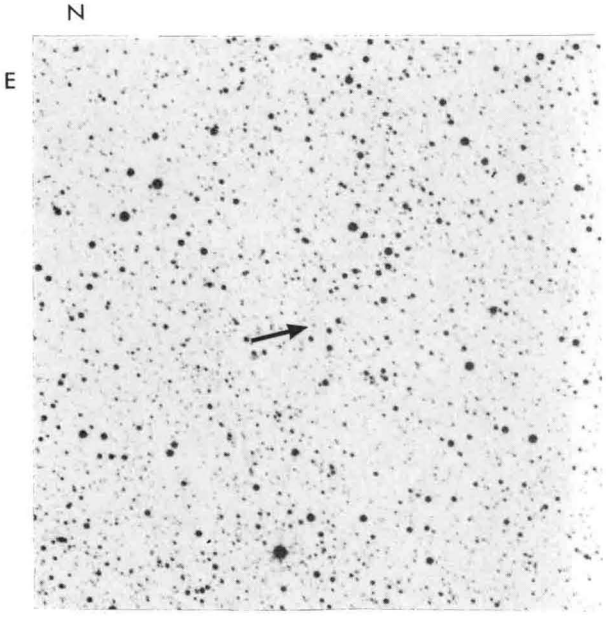
004.0-03.0 M 2-29 ESO B 521



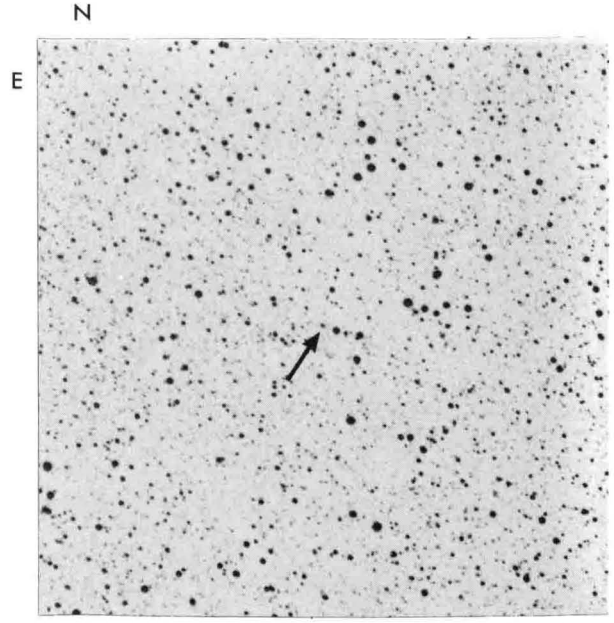
004.0-05.8 Pe 1-12 SRC J 457



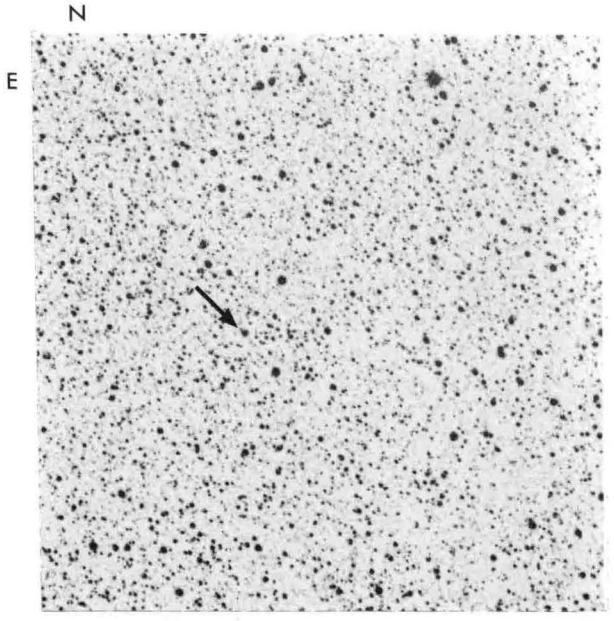
004.0-11.1 M 3-29 SRC J 458



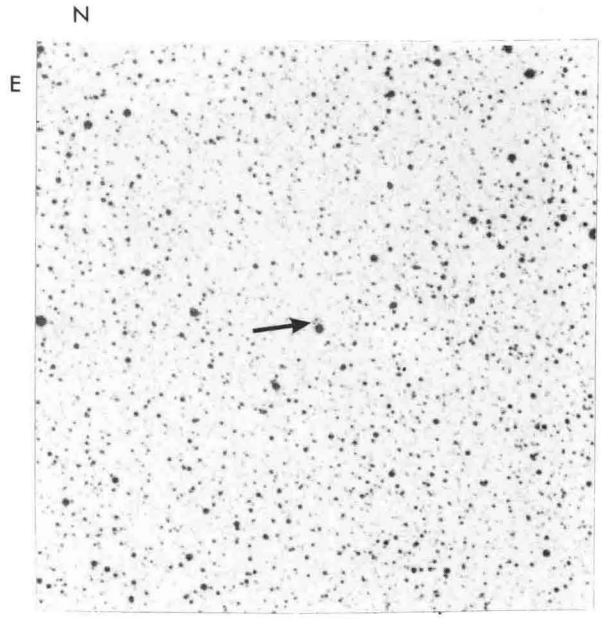
004.1-03.8 KFL 11 ESO B 521



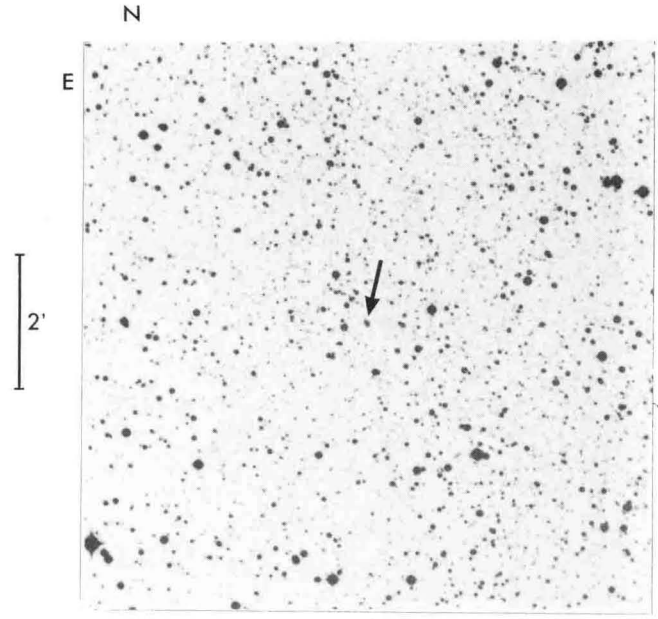
004.2-03.2 KFL 10 ESO B 521



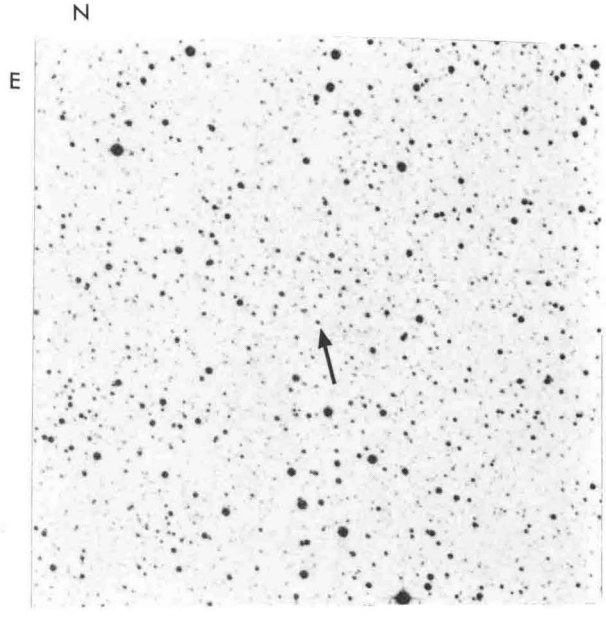
004.2-04.3 H 1-60 ESO B 456



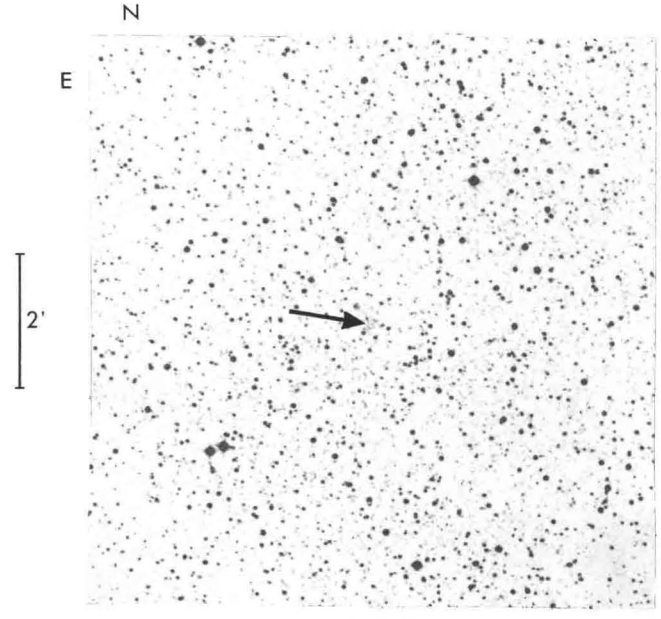
004.2-05.9 M 2-37 SRC J 457



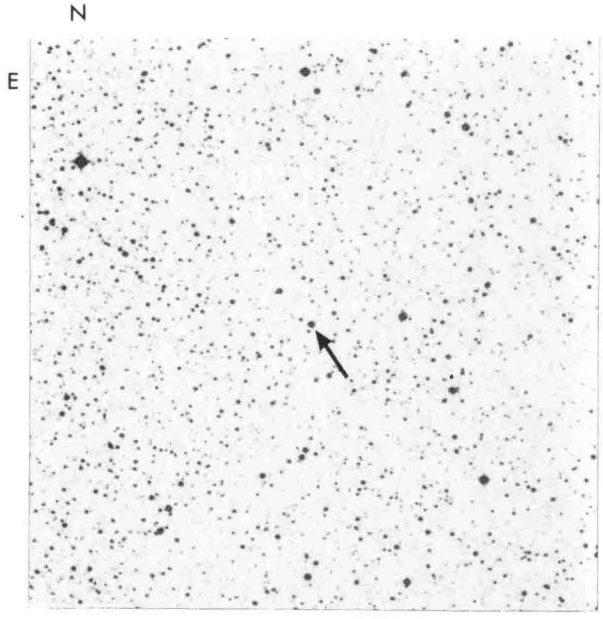
004.3+01.8 H 2-24 SRC J 520



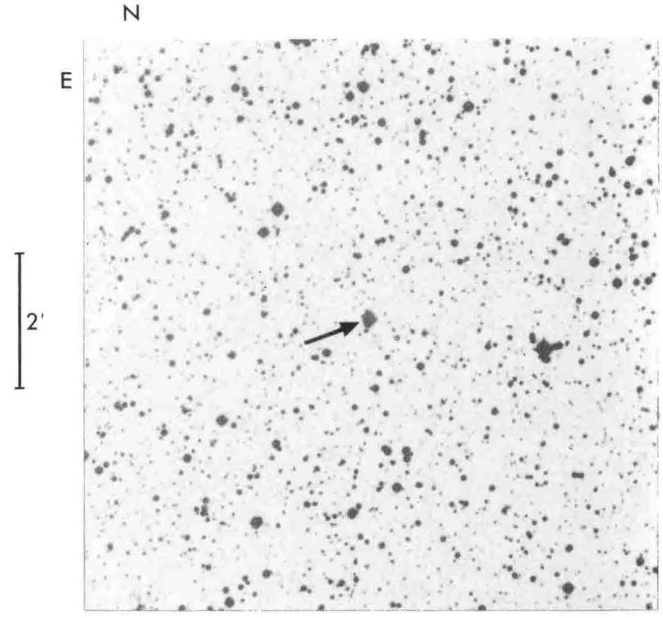
004.3-02.6 H 1-53 ESO B 521



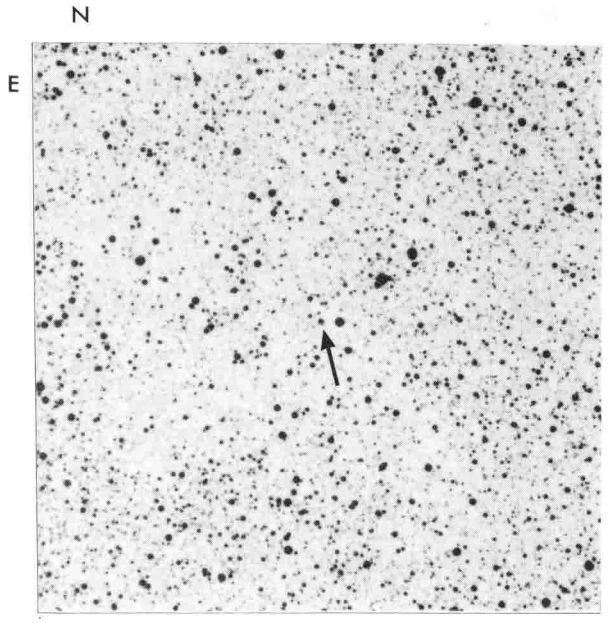
004.5+06.8 H 2-12 SRC J 588



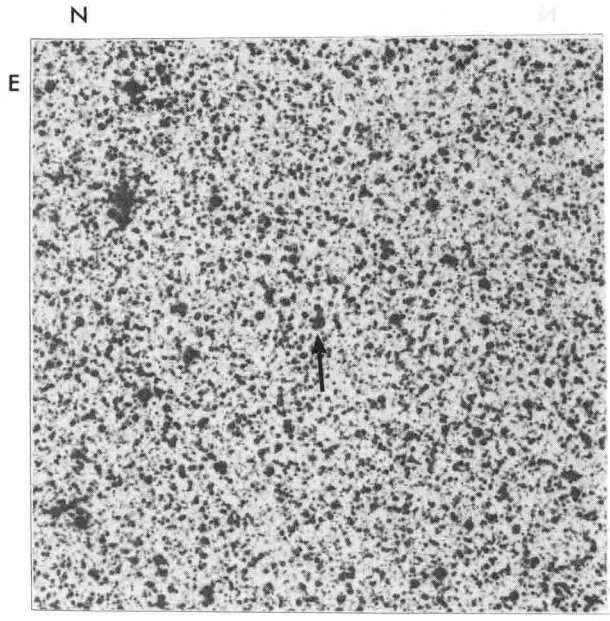
004.6+06.0 H 1-24 SRC J 588



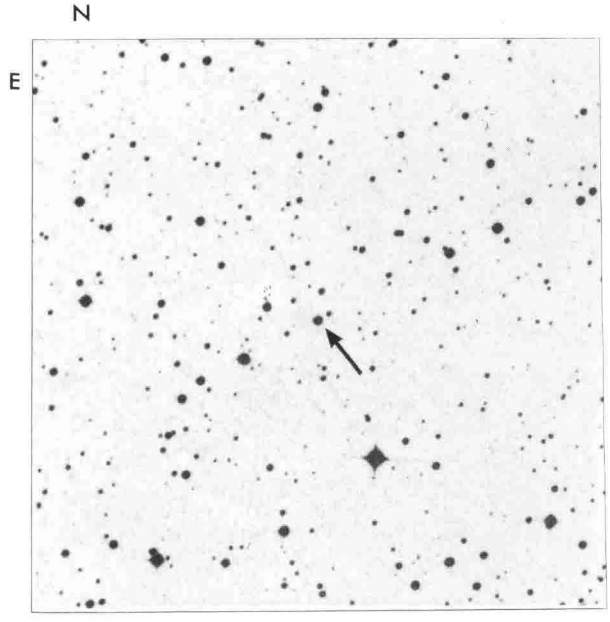
004.7-11.8 He 2- 418 SRC J 458



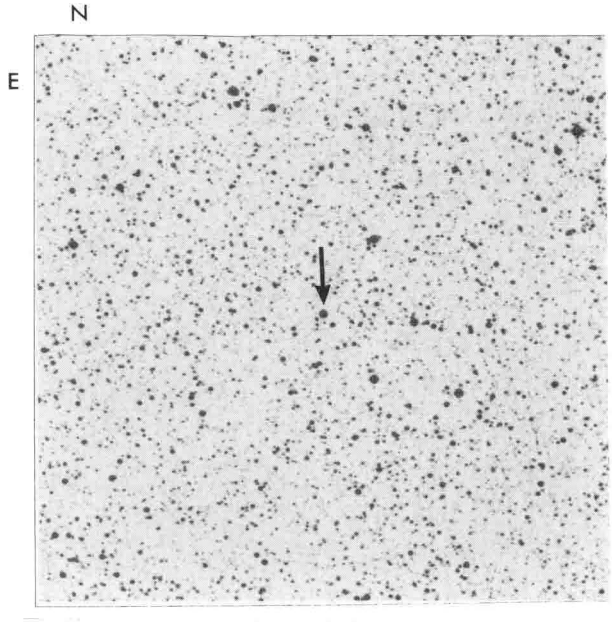
004.8+02.0 H 2-25 SRC J 520



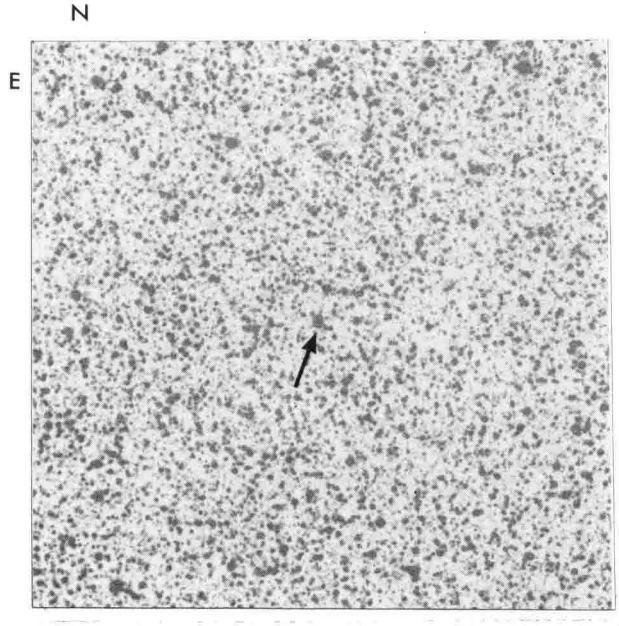
004.8-05.0 M 3-26 SRC J 522



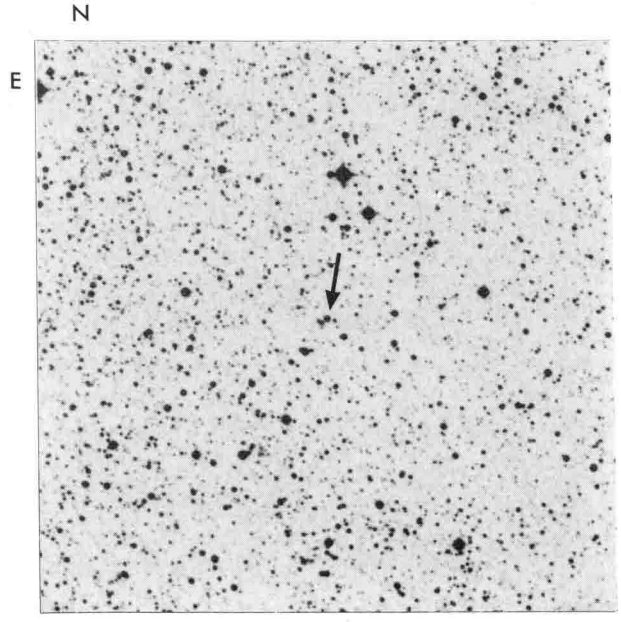
004.8-22.7 He 2- 436 SRC J 398



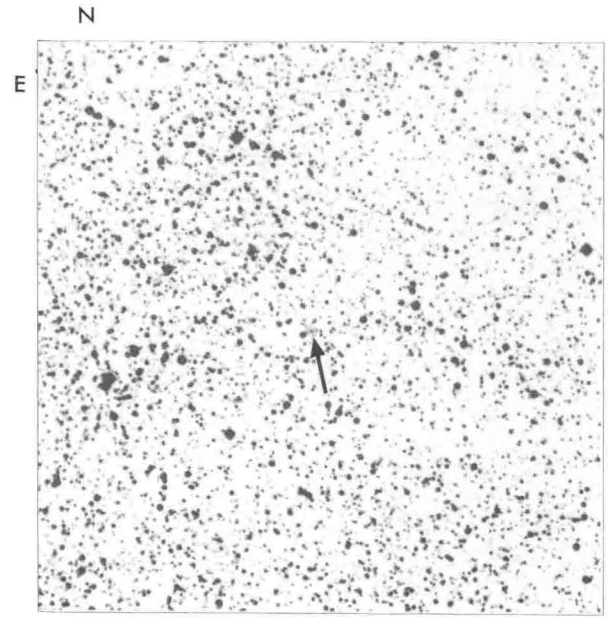
004.9+04.9 M 1-25 SRC J 588



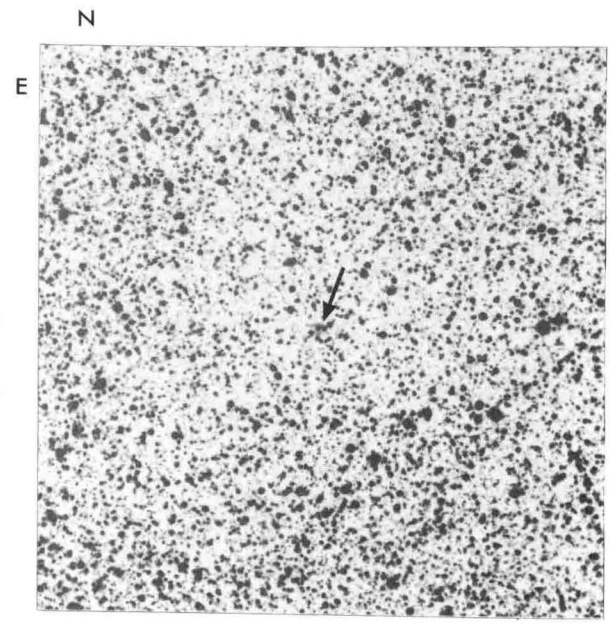
004.9-04.9 M 1-44 SRC J 522



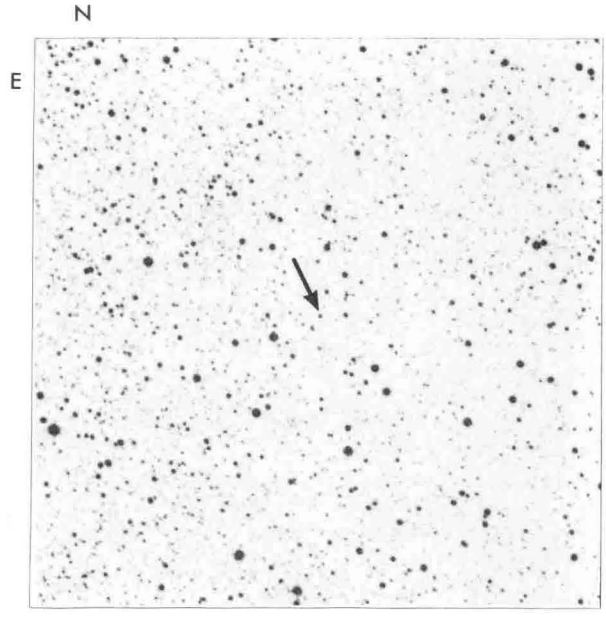
005.0+04.4 H 1-27 SRC J 520



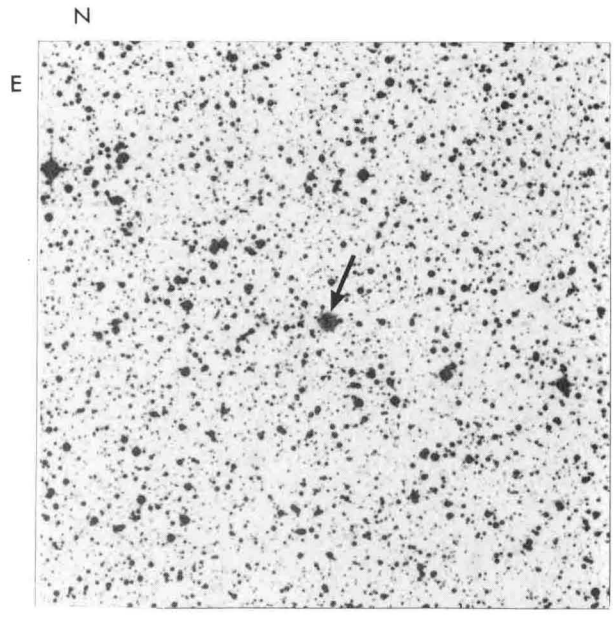
005.0+03.0 Pe 1- 9 SRC J 520



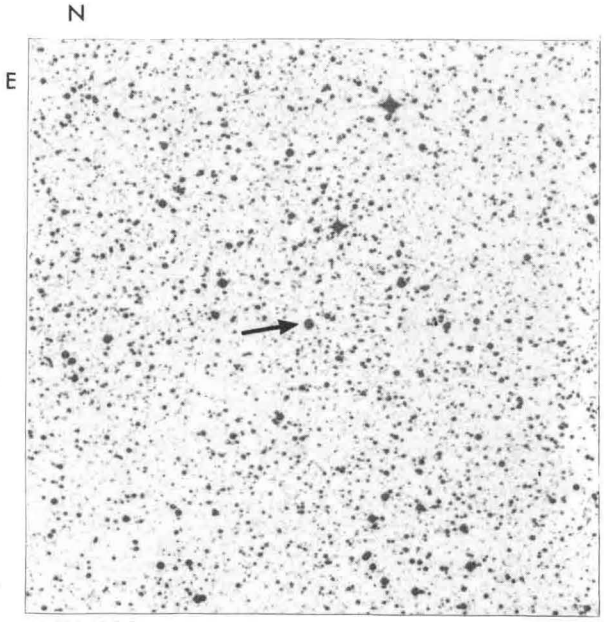
005.0-03.9 H 2-42 SRC J 522



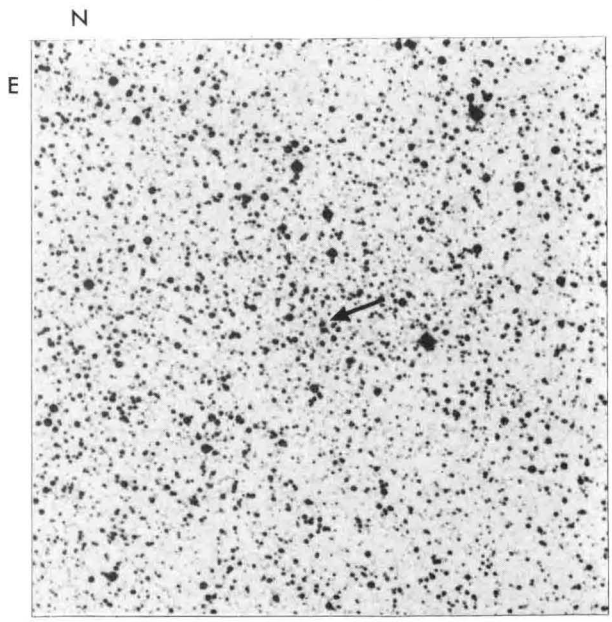
005.1-03.0 H 1-58 ESO B 521



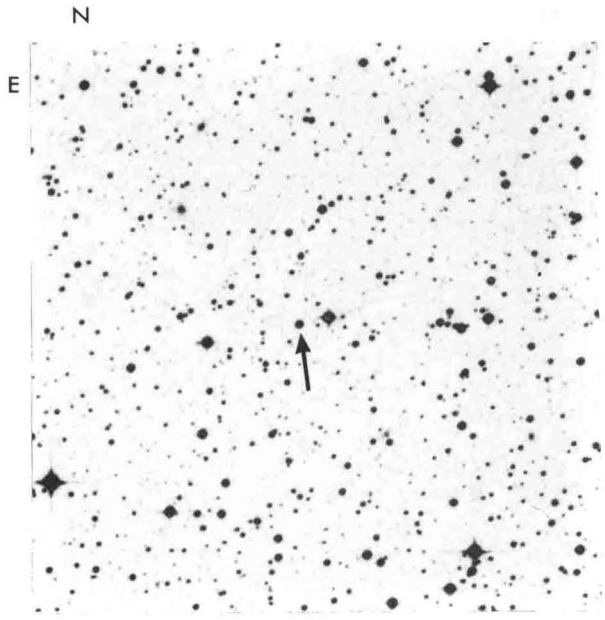
005.1-08.9 Hf 2-2 SRC J 457



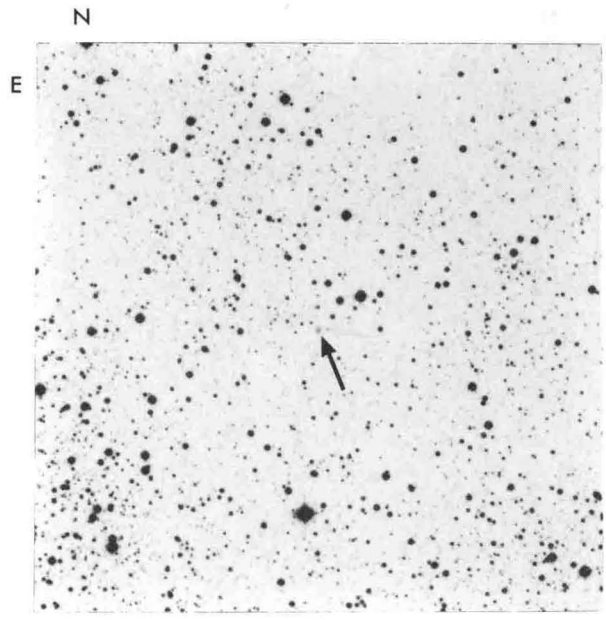
005.2+05.6 M 3-12 SRC J 588



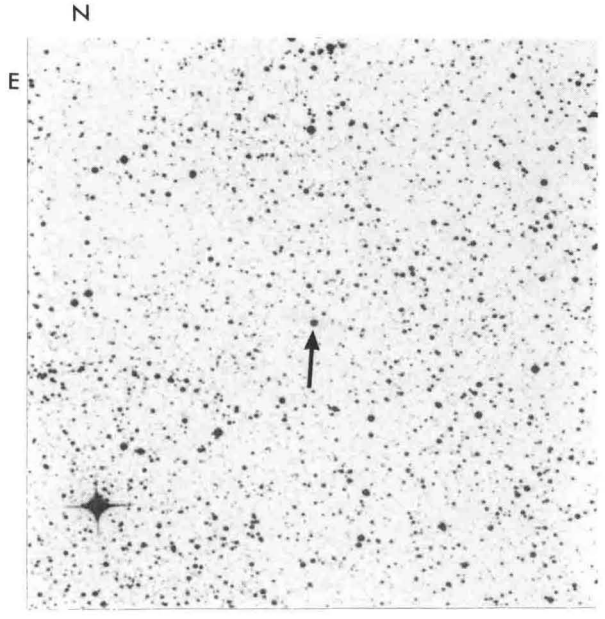
005.2+04.2 M 3-13 SRC J 520



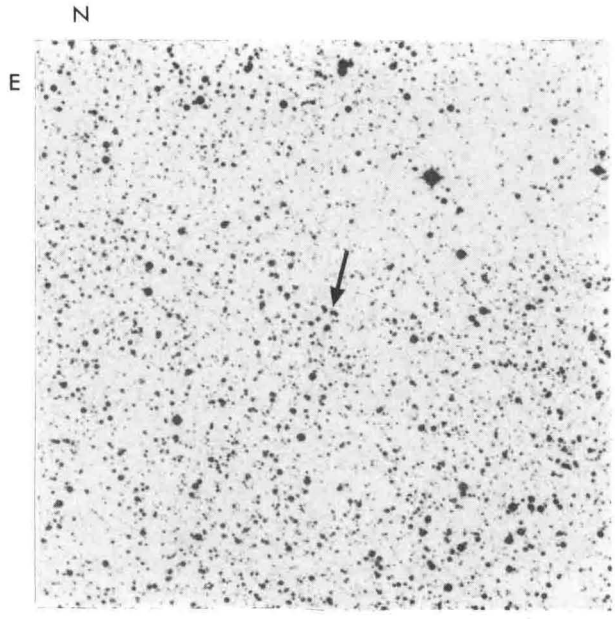
005.2-18.6 StWr 2-21 SRC J 397



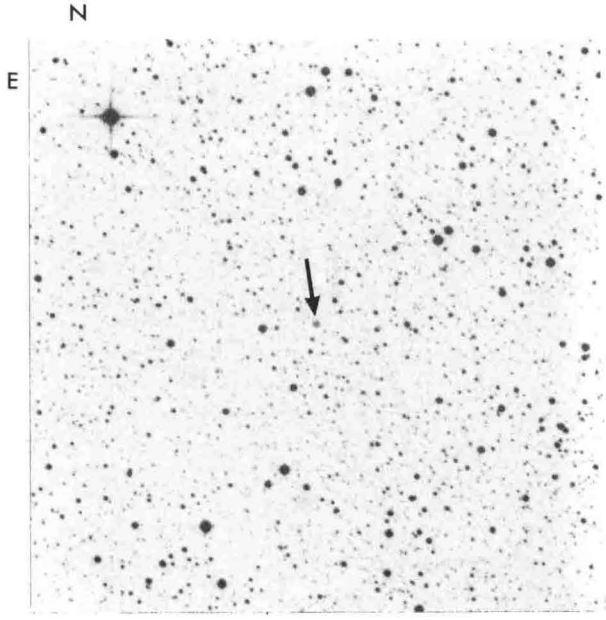
005.4-01.9 PBOZ 34 ESO R 521



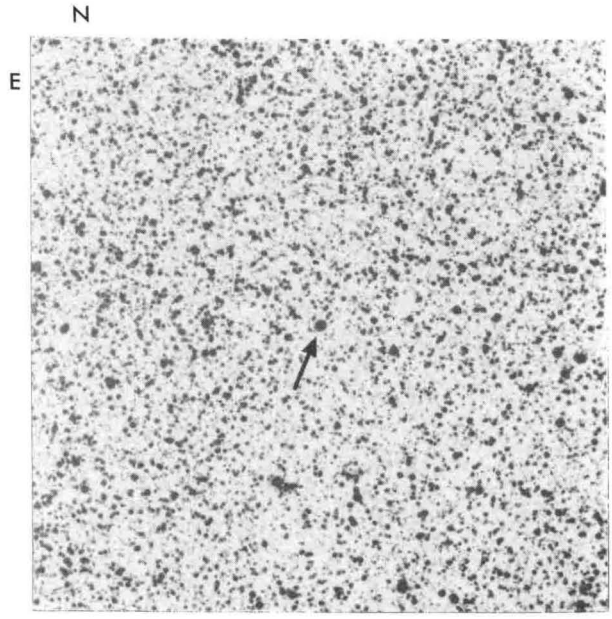
005.5+06.1 M 3-11 SRC J 588



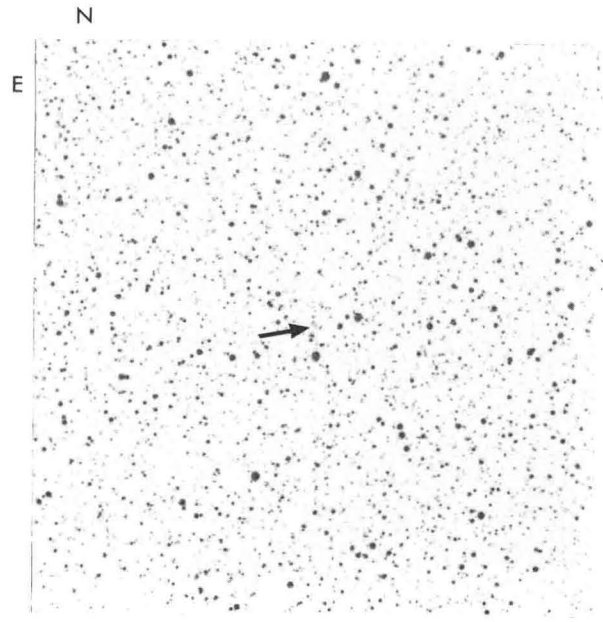
005.5+02.7 H 1-34 SRC J 520



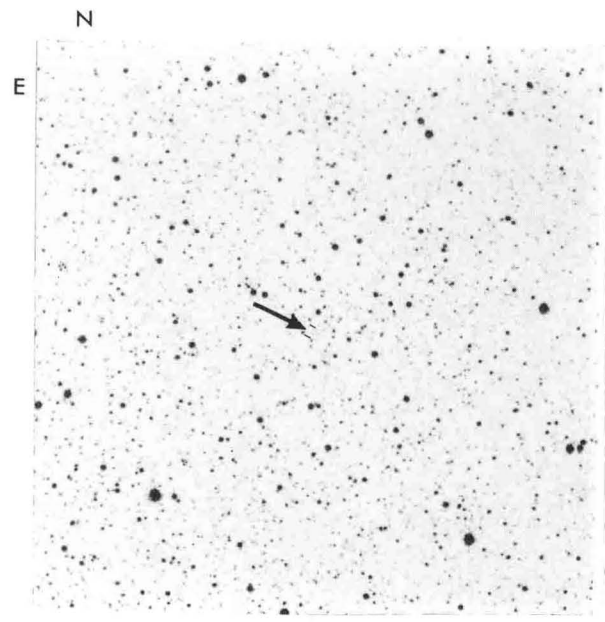
005.5-02.5 M 3-24 ESO B 521



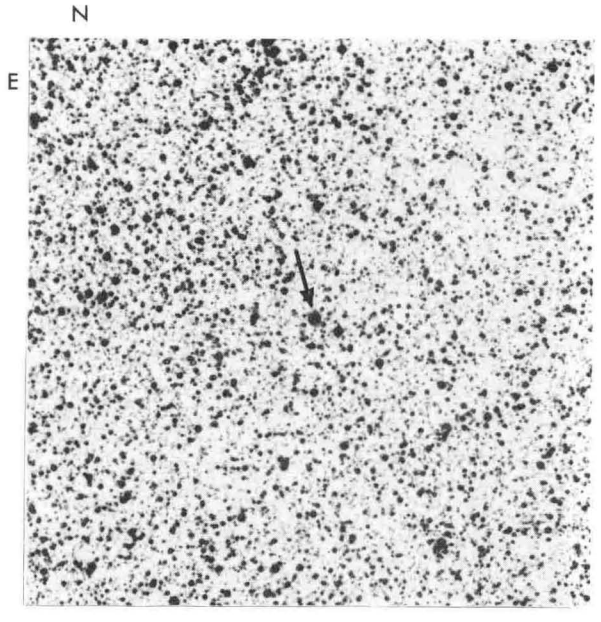
005.5-04.0 H 2-44 SRC J 522



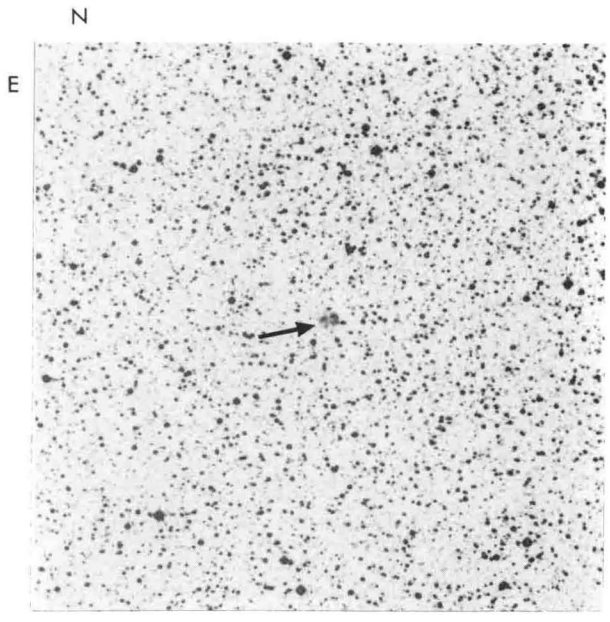
005.6-04.7 KFL 16 ESO B 522



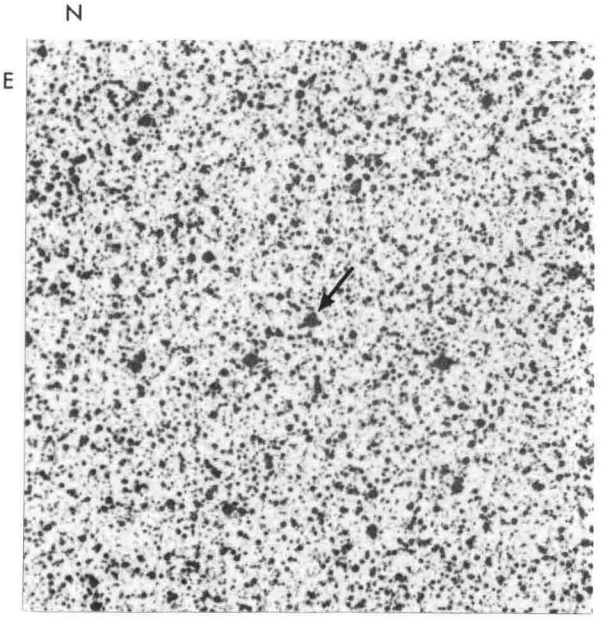
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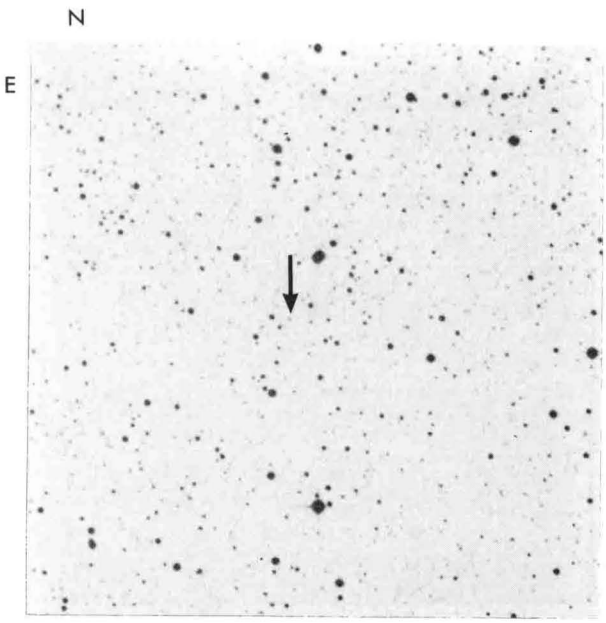
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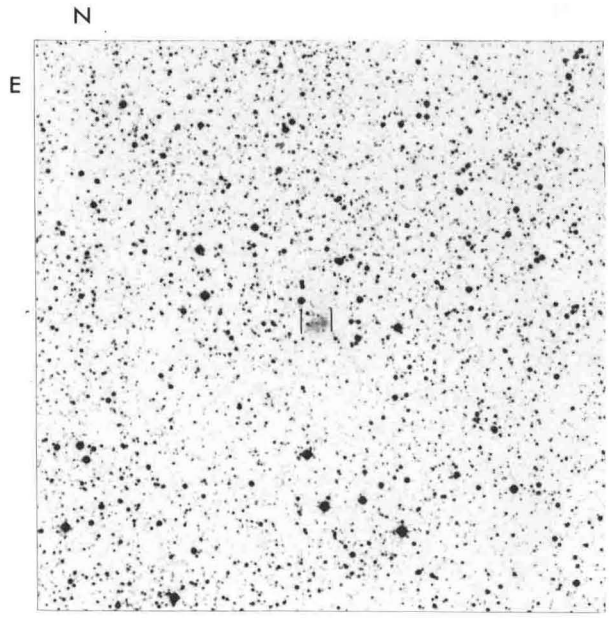
005.8+05.1 H 2-16 SRC J 588



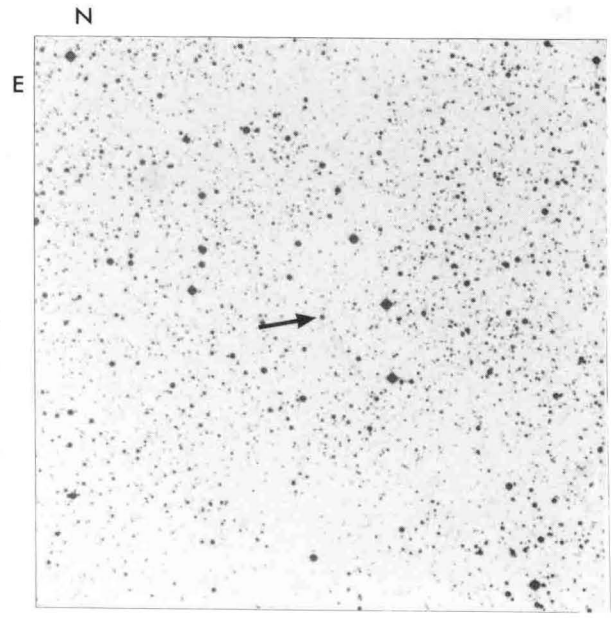
005.8-06.1 NGC 6620 SRC J 522



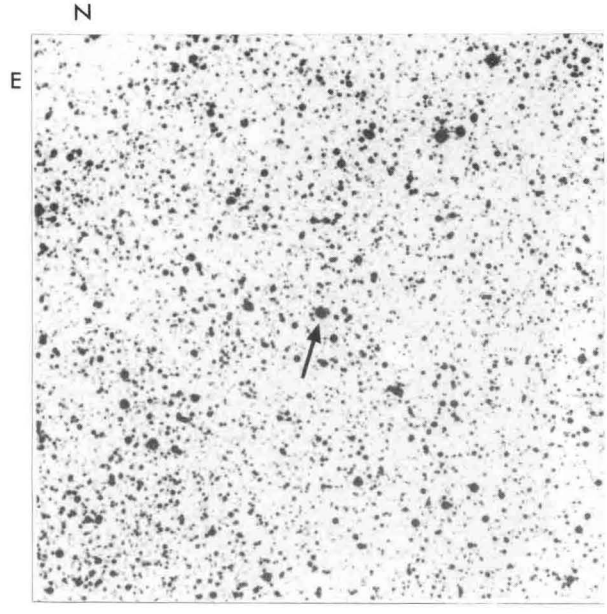
005.9-02.6 MaC 1-10 ESO B 521



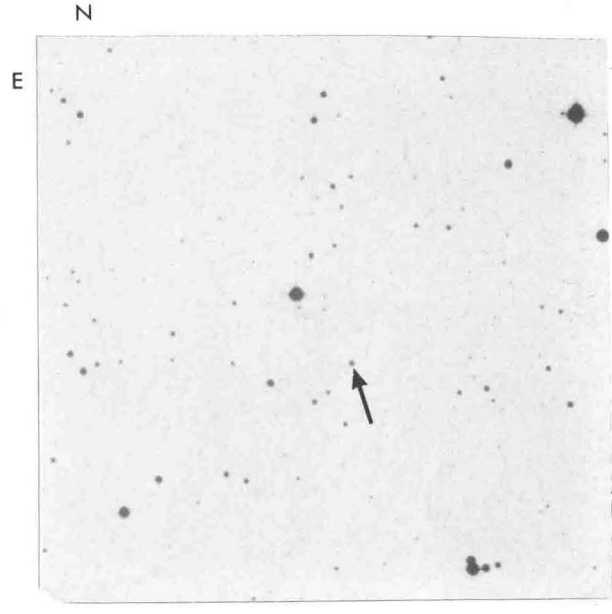
006.0+03.1 M 1-28 SRC J 589



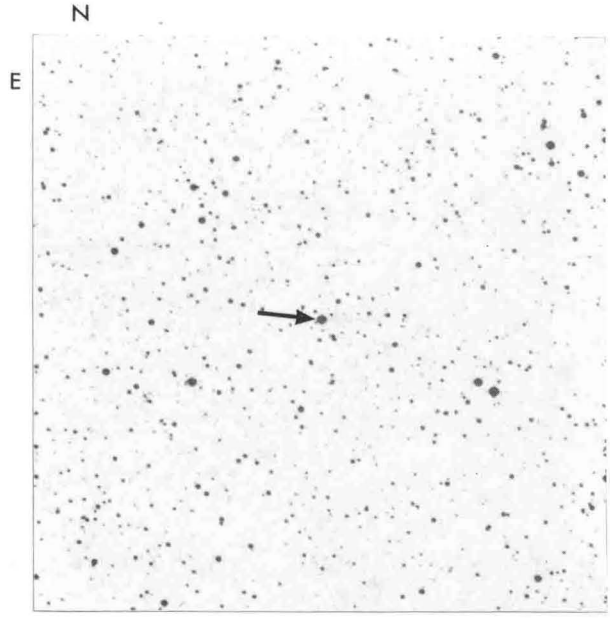
006.0+02.8 Th 4- 3 SRC J 589



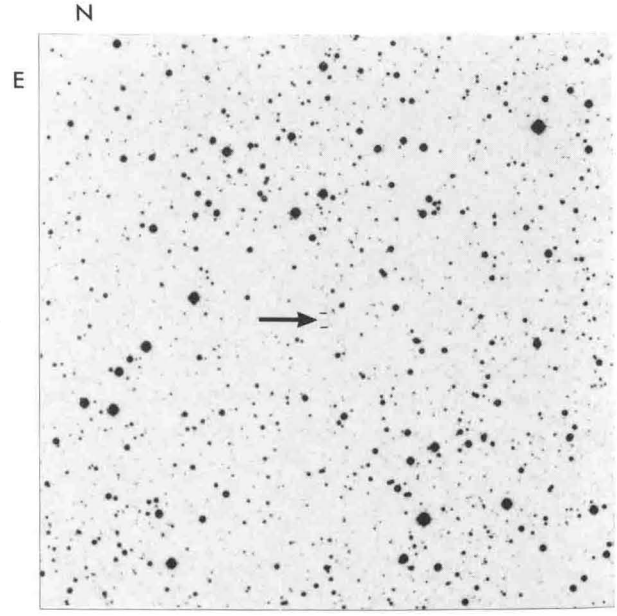
006.0-03.6 M 2-31 SRC J 522



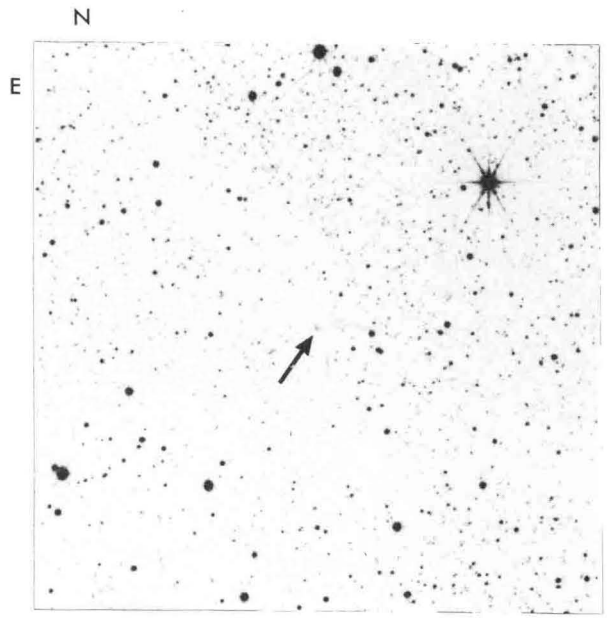
006.0-41.9 PRMG 1 ESO R 402



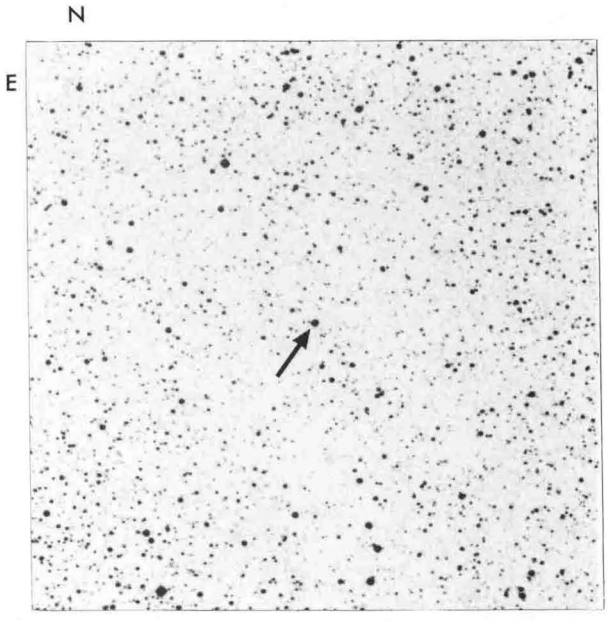
006.1+08.3 M 1-20 SRC J 588



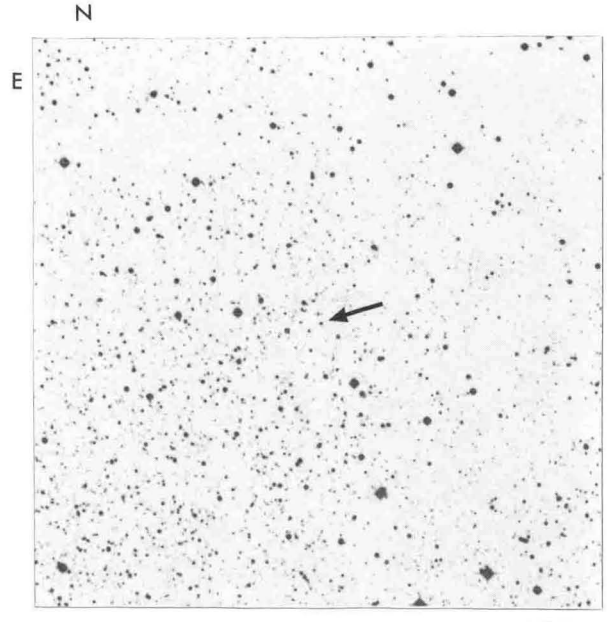
006.2+01.0 HaTr 8 ESO R 521



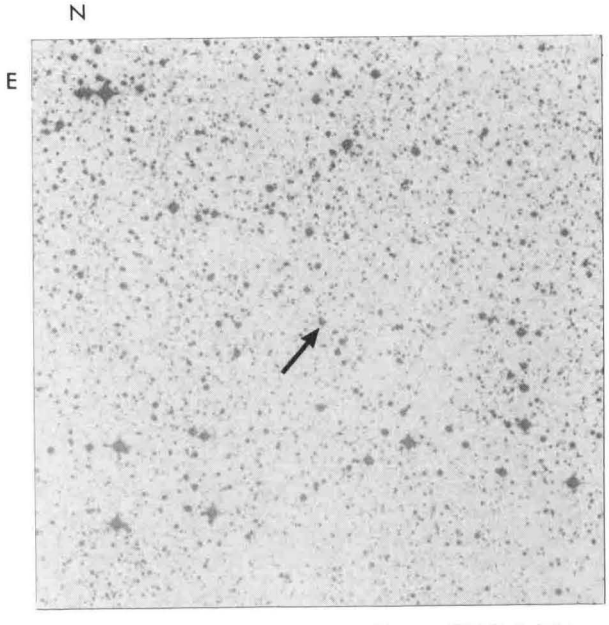
006.2-03.7 KFL 15 ESO B 522



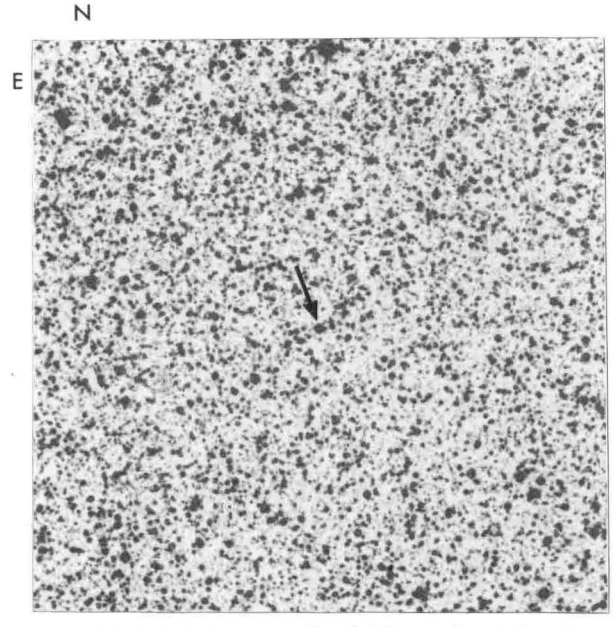
006.3+04.4 H 2-18 SRC J 588



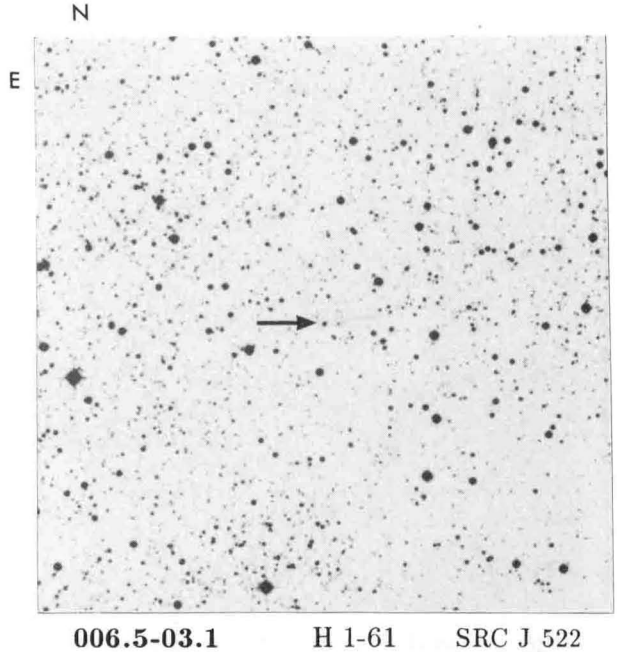
006.3+03.3 H 2-22 SRC J 589



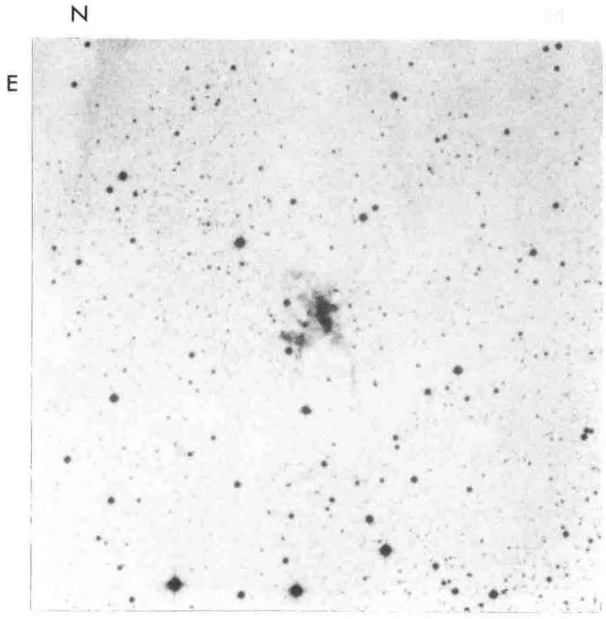
006.4+02.0 M 1-31 SRC J 589



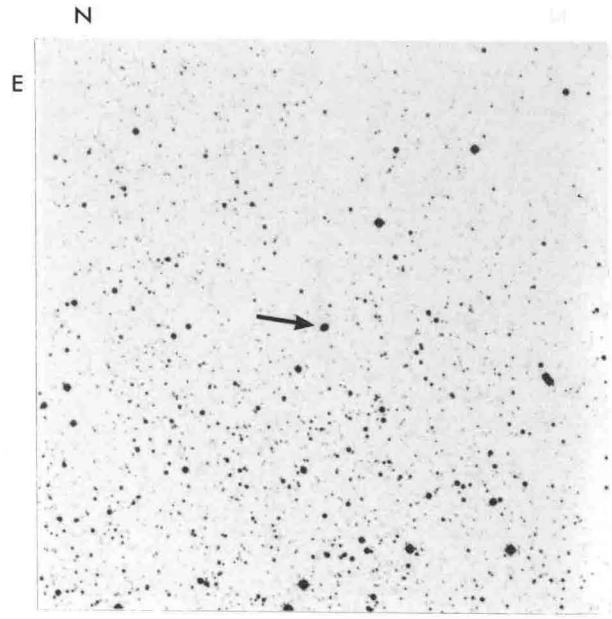
006.4-04.6 Pe 2-13 SRC J 522



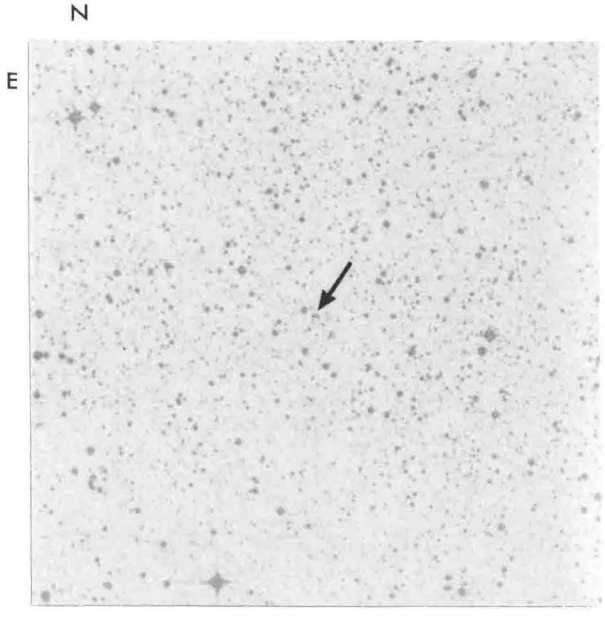
006.5-03.1 H 1-61 SRC J 522



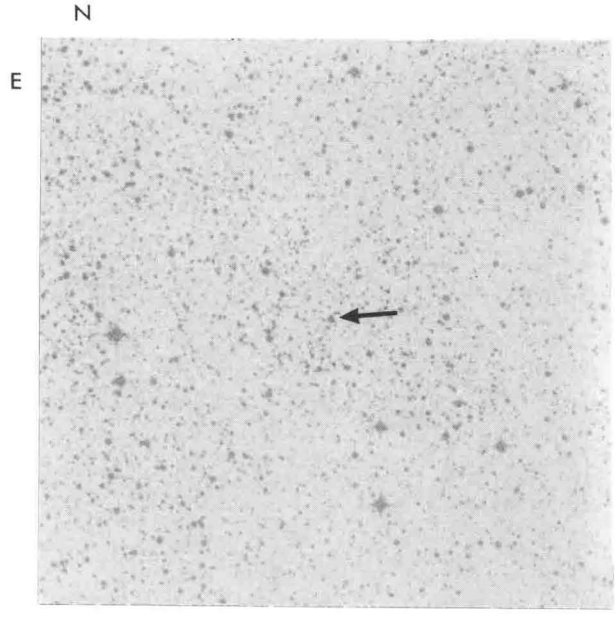
006.7-02.2 M 1-41 ESO R 521



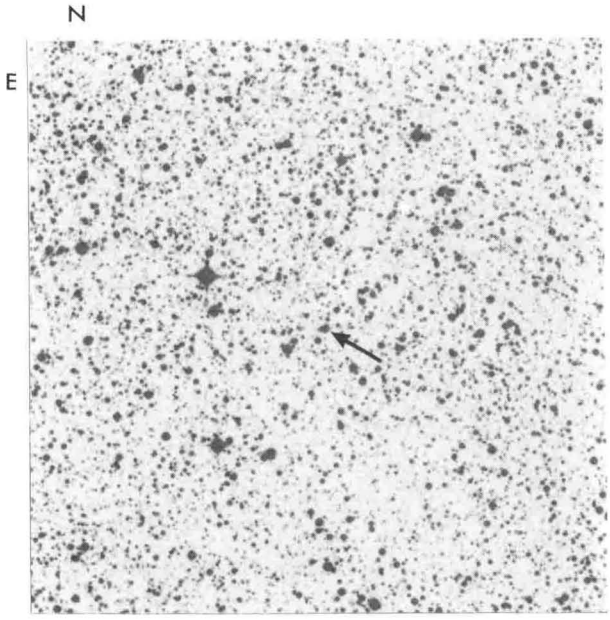
006.8+04.1 M 3-15 SRC J 589



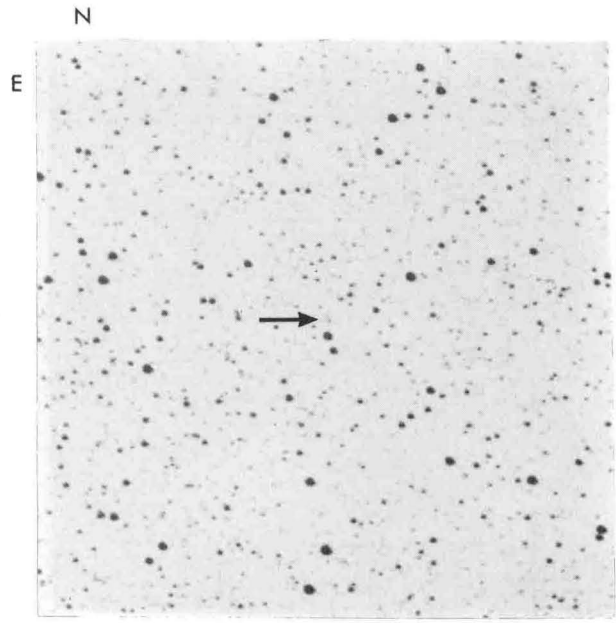
006.8+02.0 Pe 2-10 SRC J 589



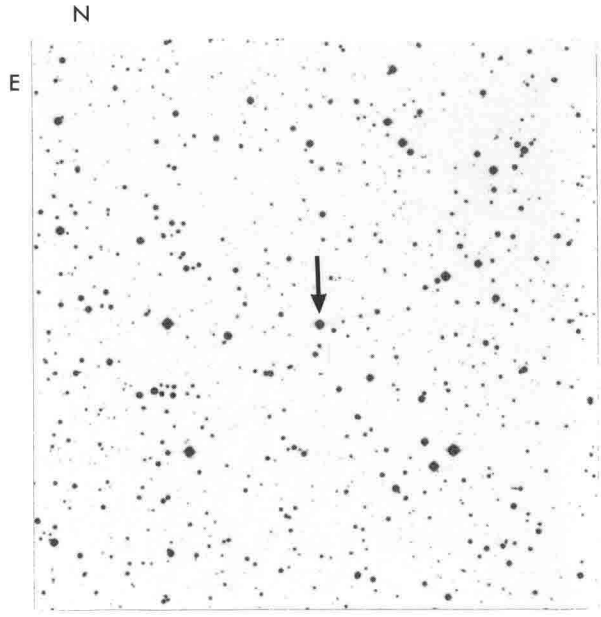
006.8+02.3 Th 4- 7 SRC J 589



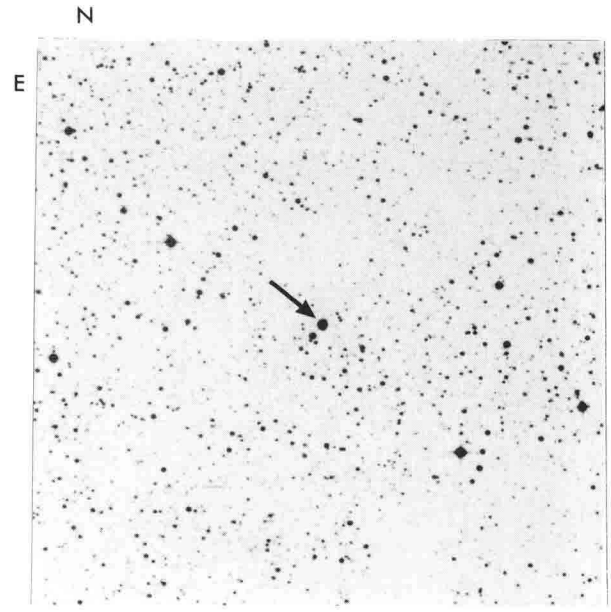
006.8-03.4 H 2-45 SRC J 522



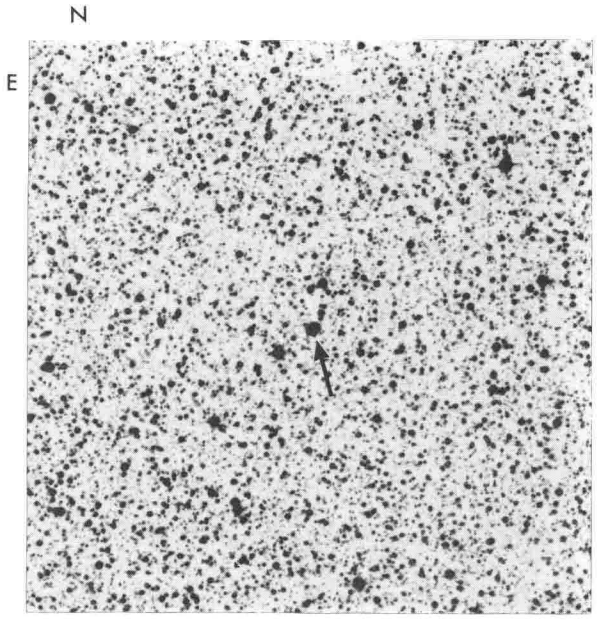
006.8-08.6 Wray 15-1876 ESO B 523



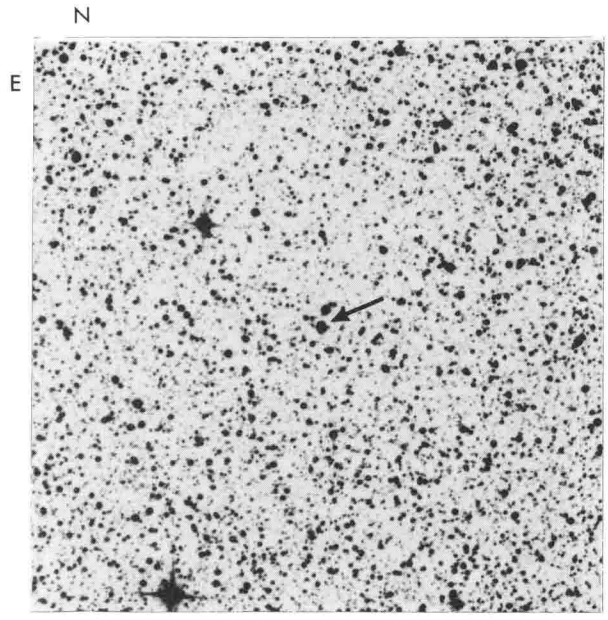
006.8-19.8 Wray 16-423 SRC J 459



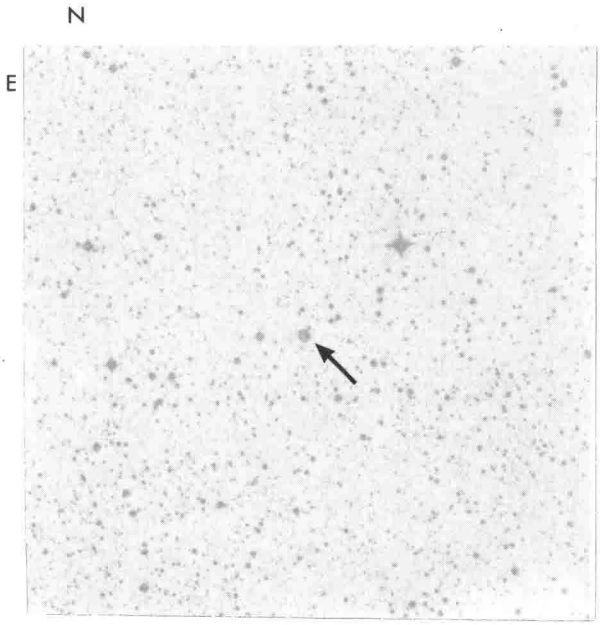
007.0+06.3 M 1-24 SRC J 588



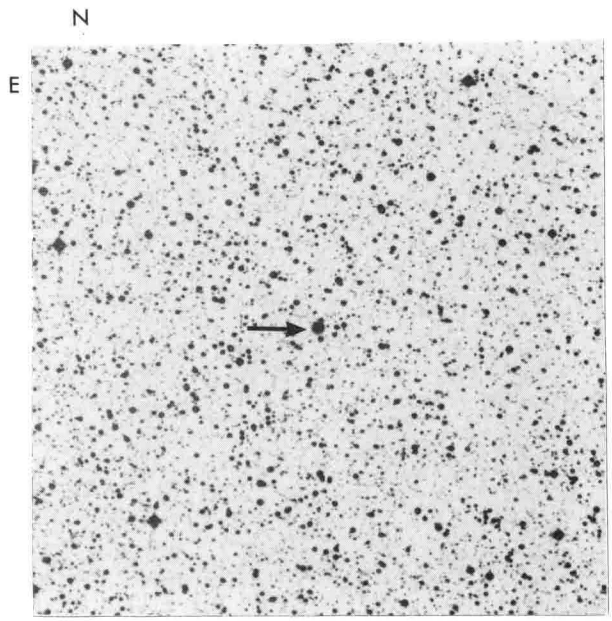
007.0-06.0 H 1-66 SRC J 522



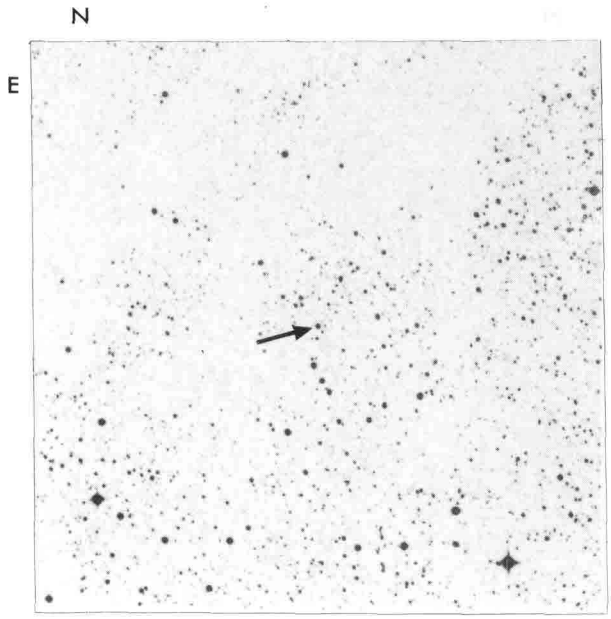
007.0-06.8 VY 2- 1 SRC J 522



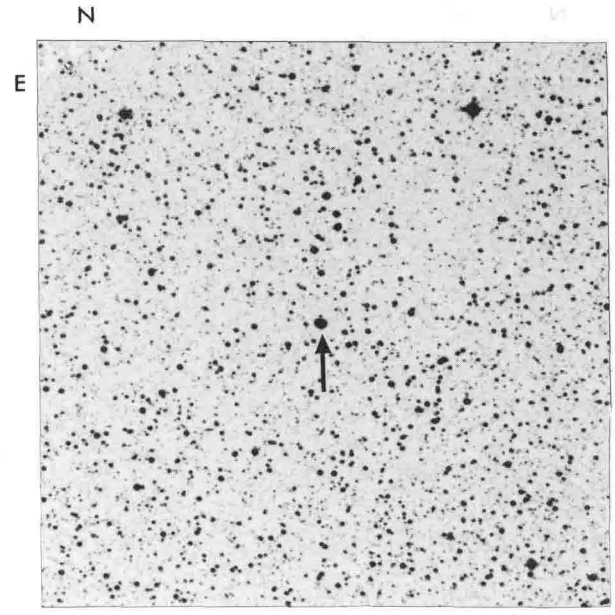
007.2+01.8 Hb 6 SRC J 589



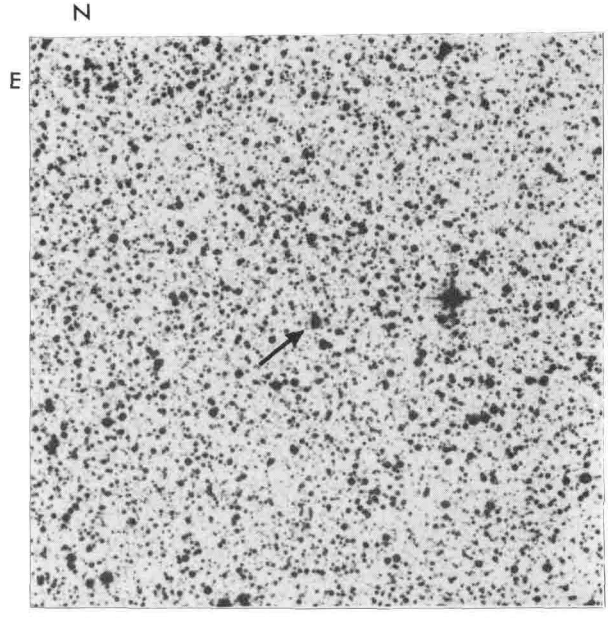
007.5+07.4 M 1-22 SRC J 588



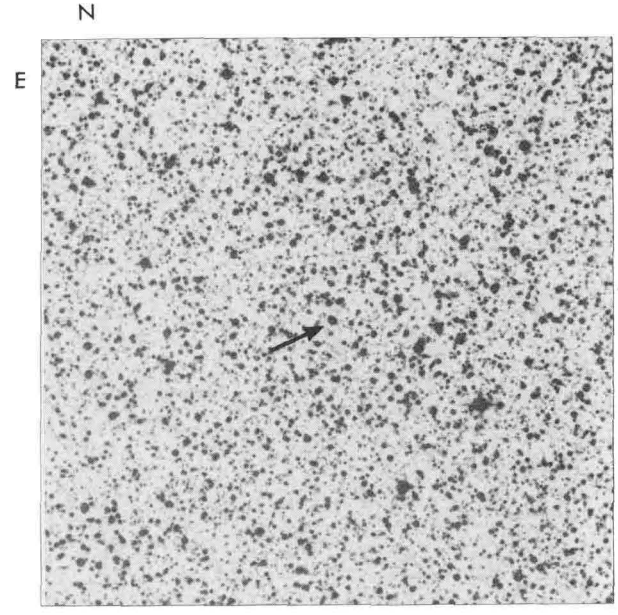
007.5+04.3 Th 4- 1 SRC J 589



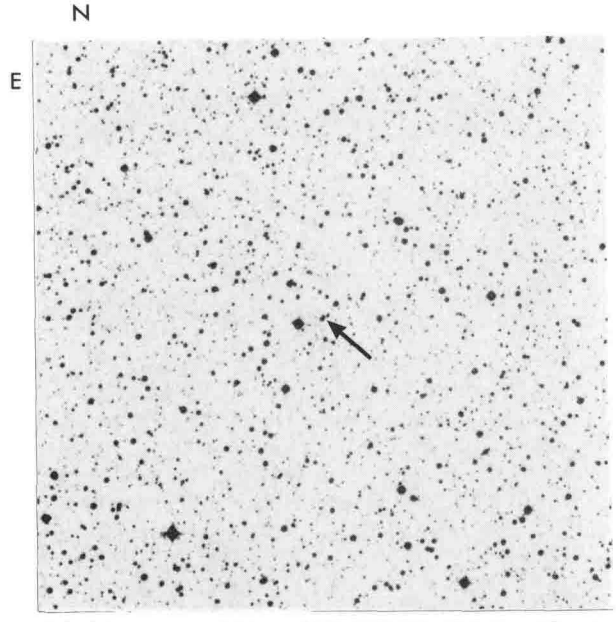
007.6+06.9 M 1-23 SRC J 588



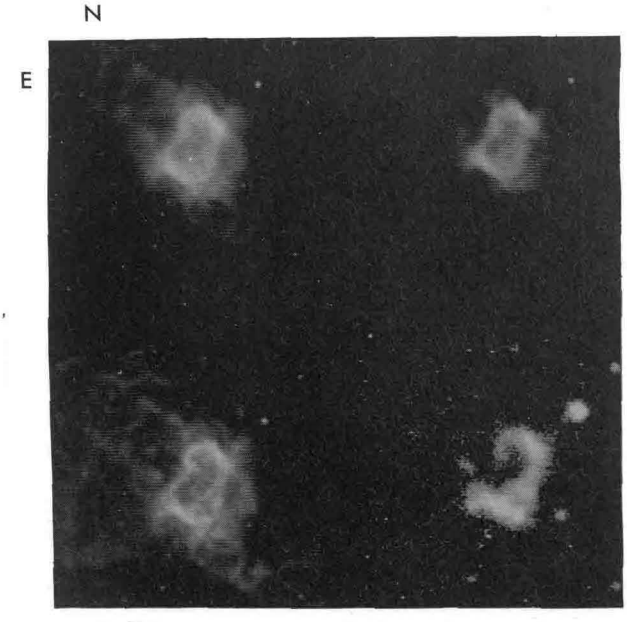
007.8-03.7 M 2-34 SRC J 522



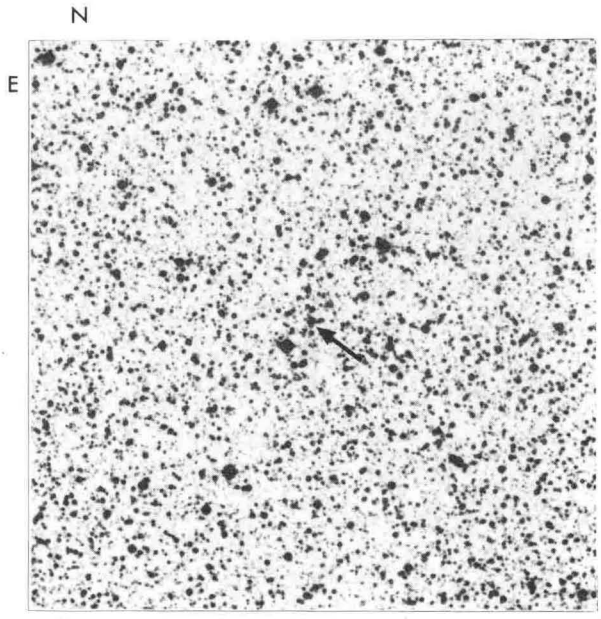
007.8-04.4 H 1-65 SRC J 522



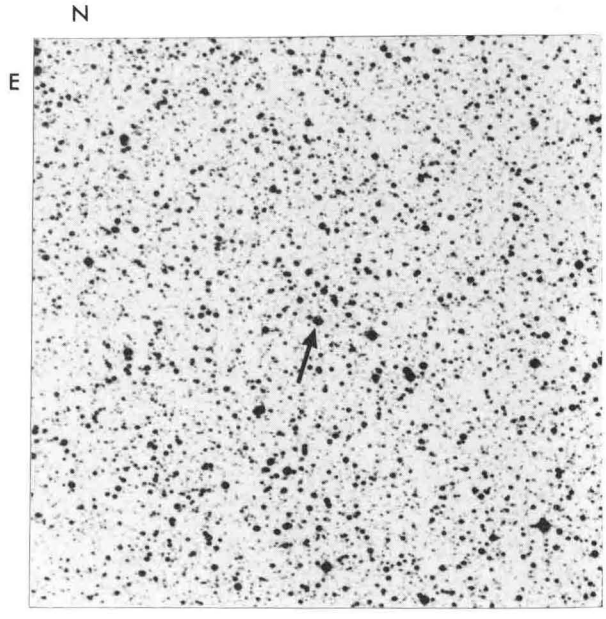
007.9+10.1 MaC 1- 4 SRC J 659



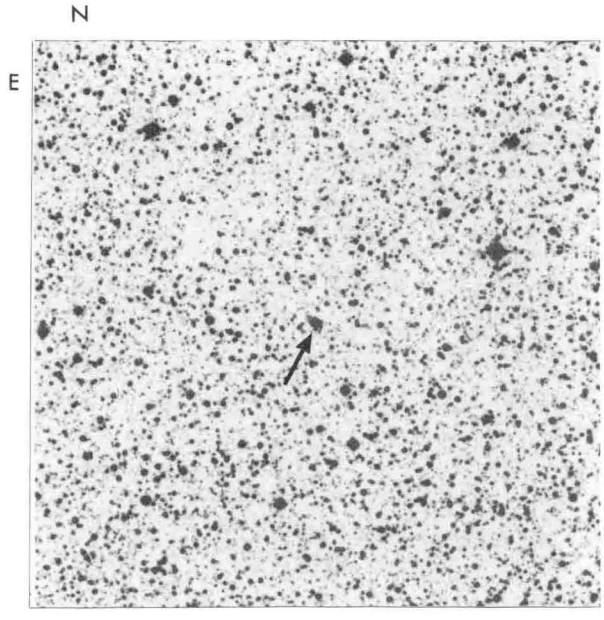
008.0+03.9 NGC 6445 BALICK 87



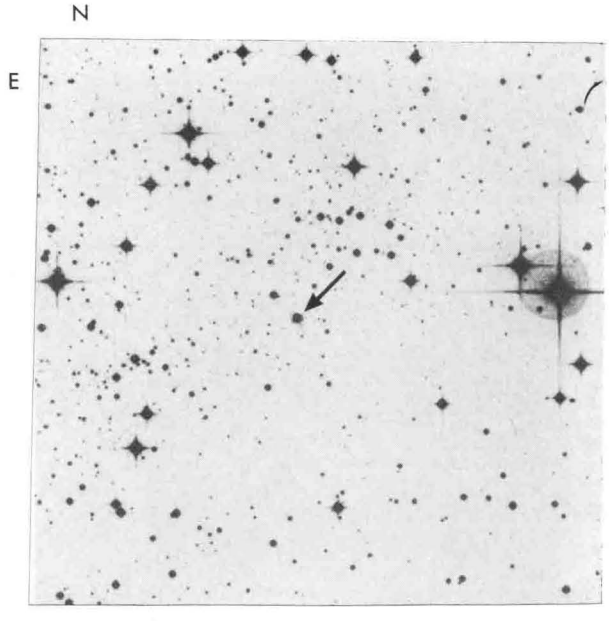
008.1-04.7 M 2- 39 SRC J 522



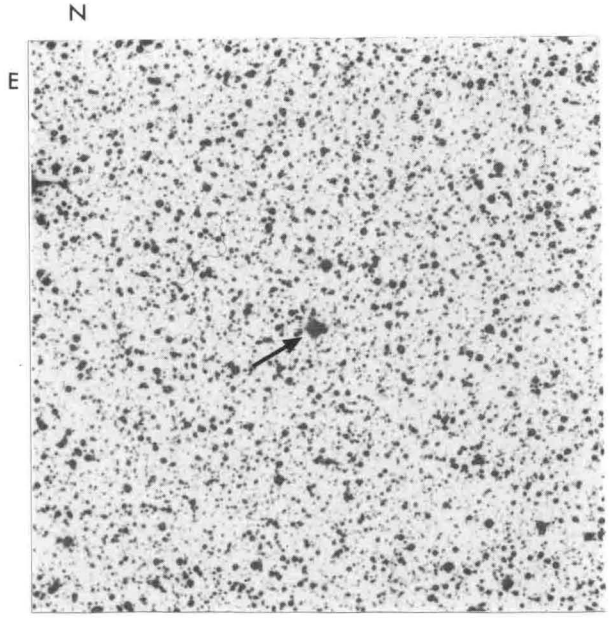
008.2+06.8 He 2- 260 SRC J 588



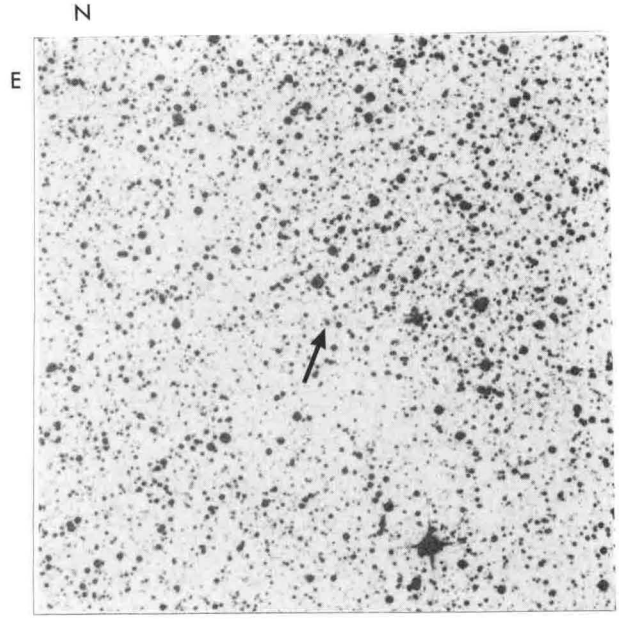
008.2-04.8 M 2-42 SRC J 522



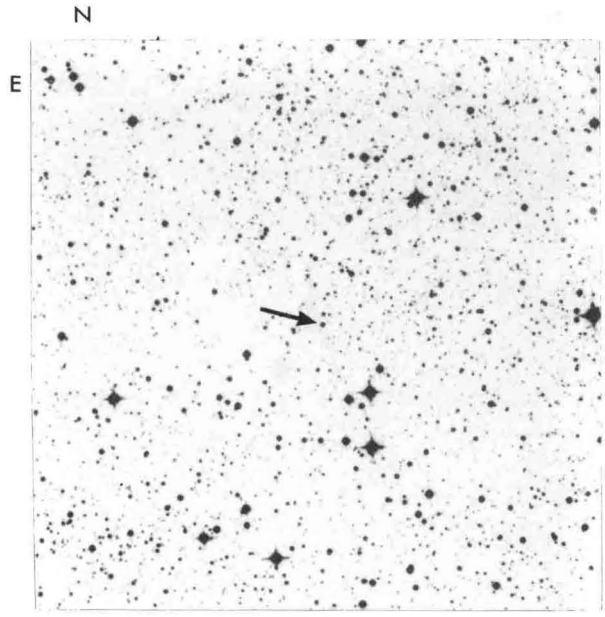
008.3-01.1 M 1-40 SRC J 590



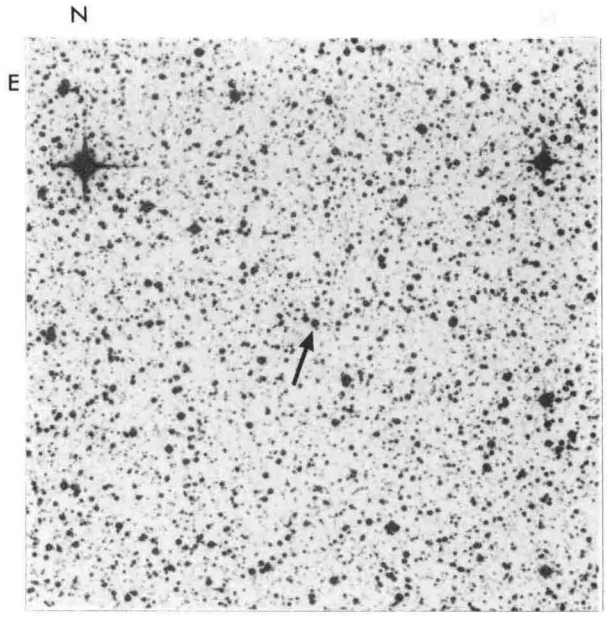
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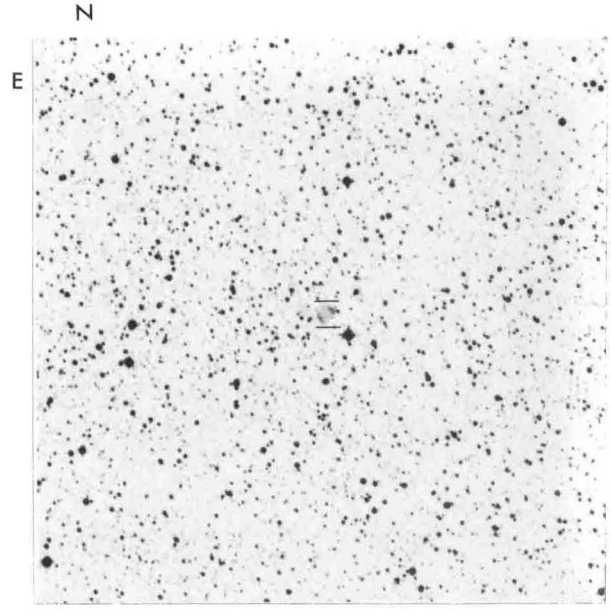
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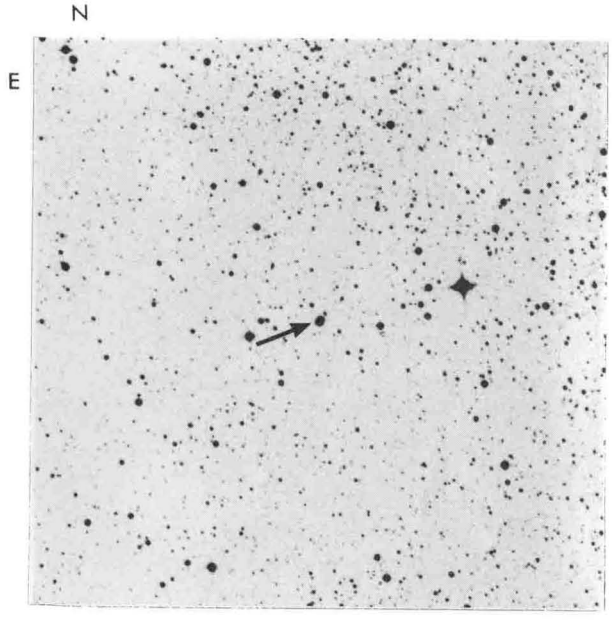
008.6-02.6 MaC 1-11 SRC J 590



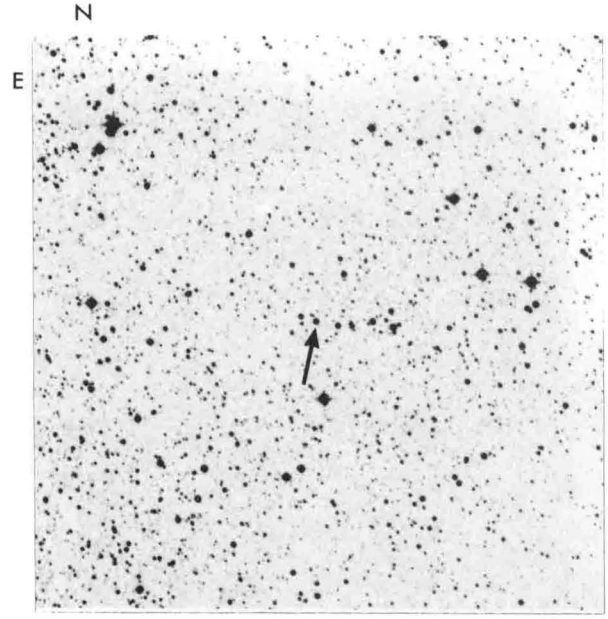
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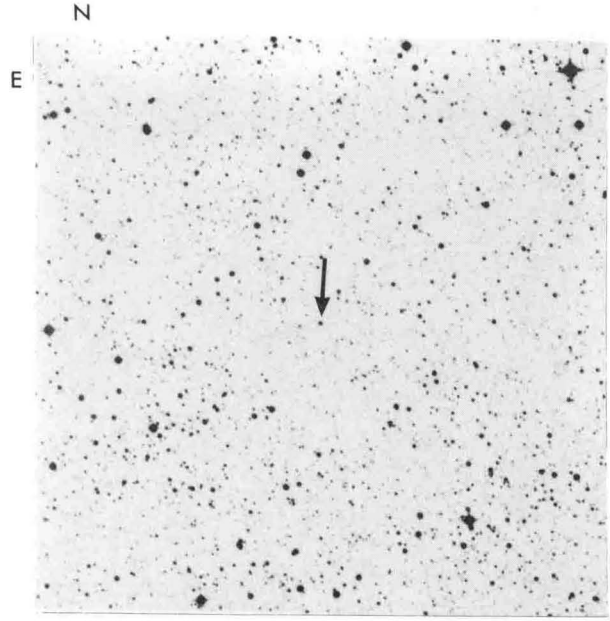
008.8+05.2 Th 4- 2 SRC J 589



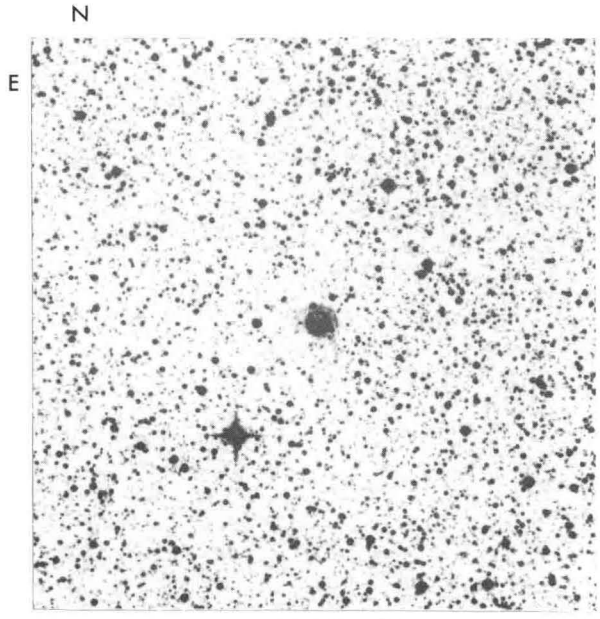
009.0+04.1 Th 4- 5 SRC J 589



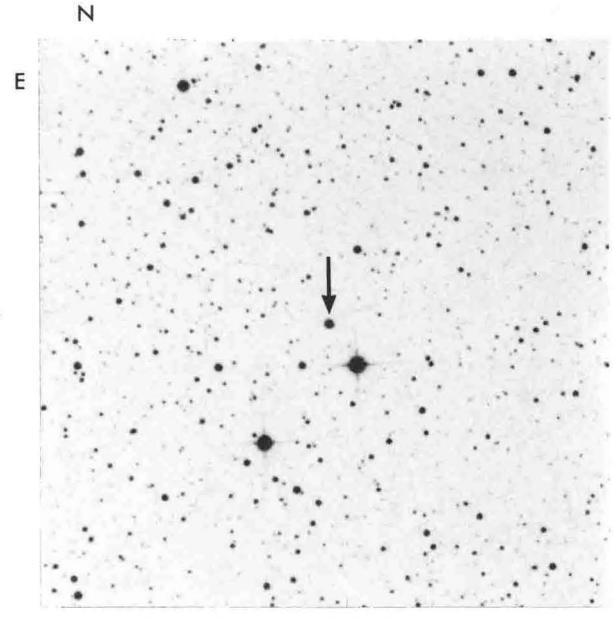
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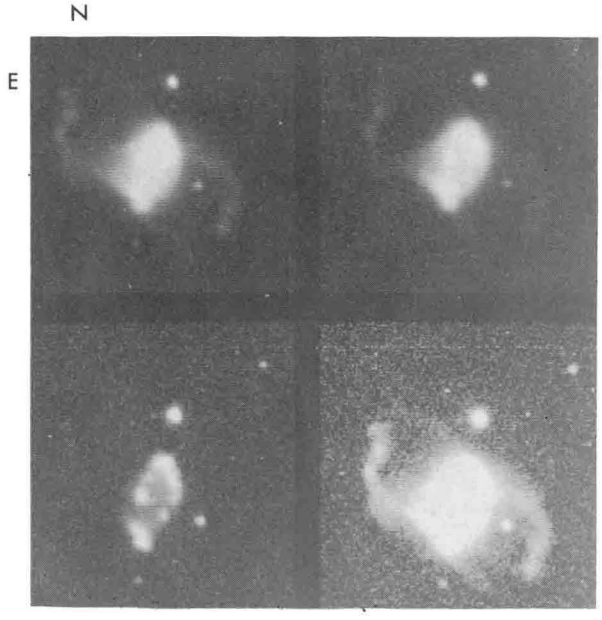
009.3+02.8 Th 4-9 SRC J 589



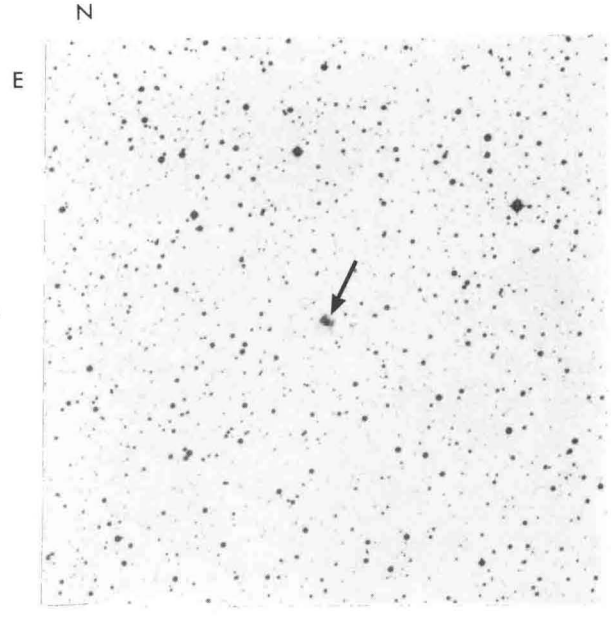
009.4-05.0 NGC 6629 SRC J 522



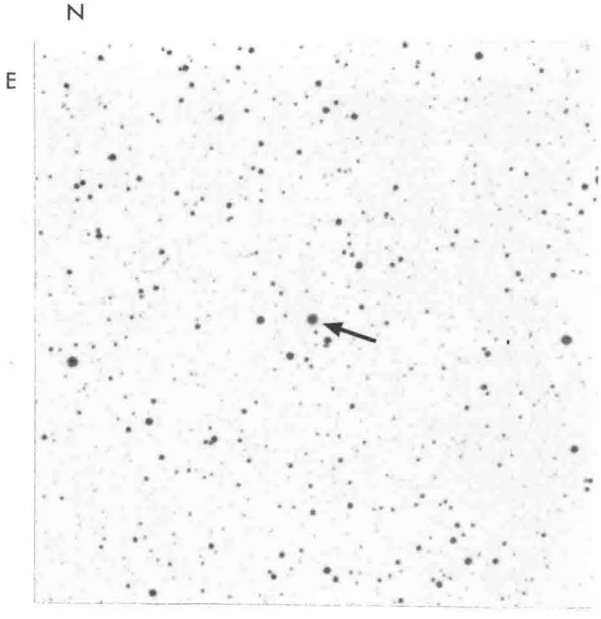
009.4-09.8 M 3-32 ESO B 523



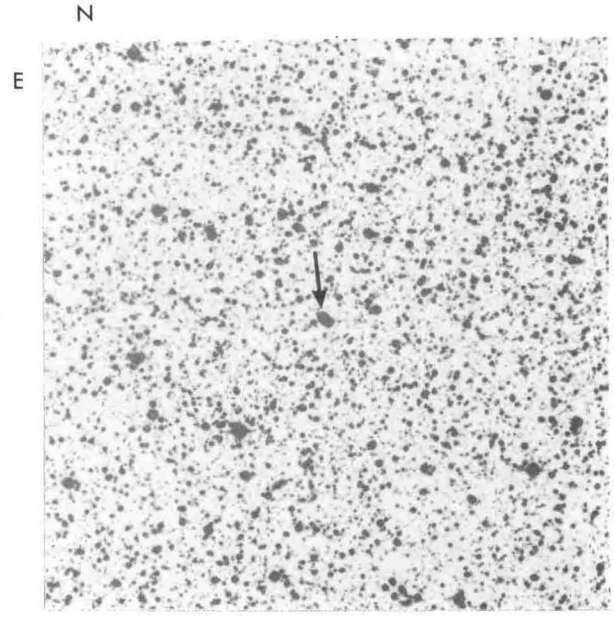
009.6+14.8 NGC 6309 BALICK 87



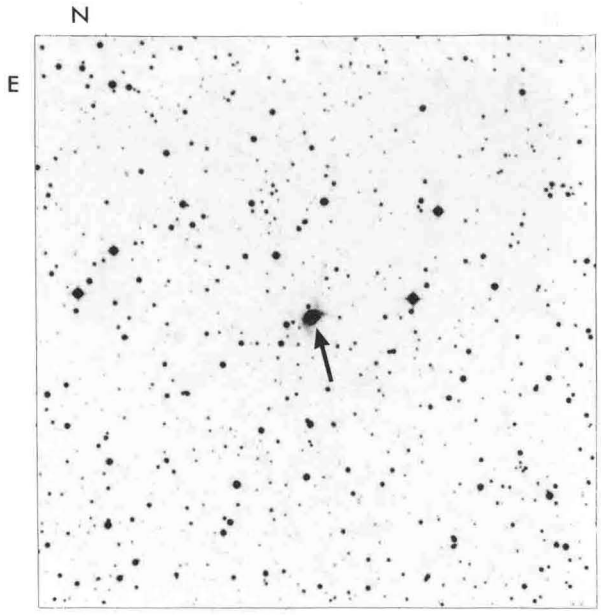
009.6+10.5 A 41 SRC J 659



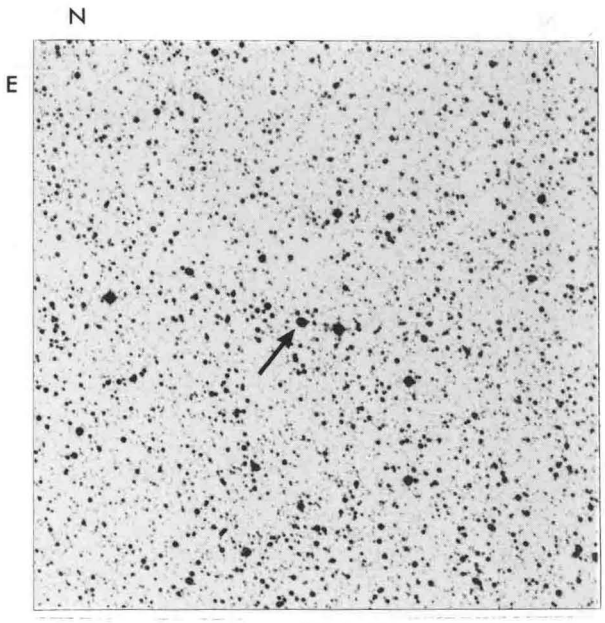
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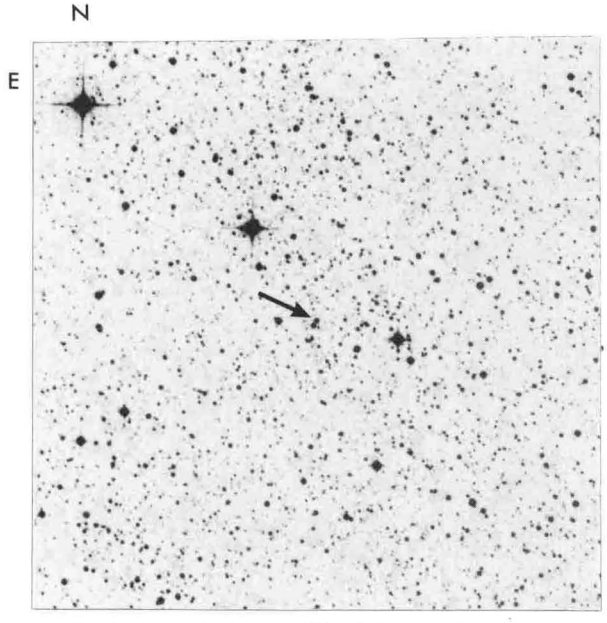
009.8-04.6 H 1-67 SRC J 522



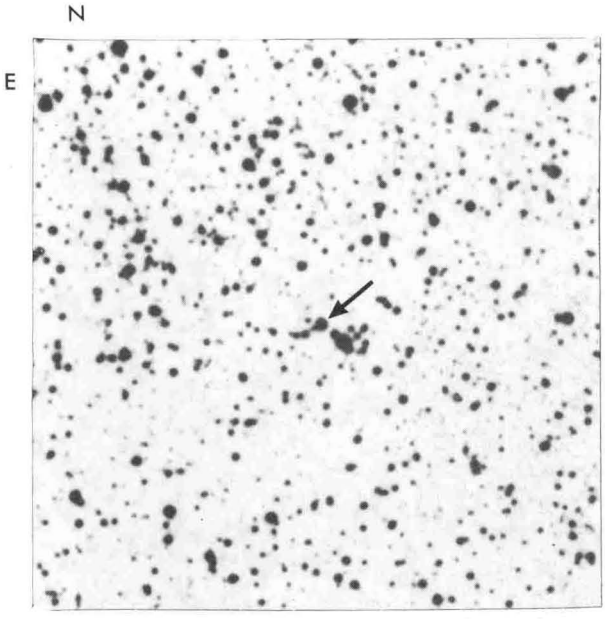
010.1+00.7 NGC 6537 SRC J 590



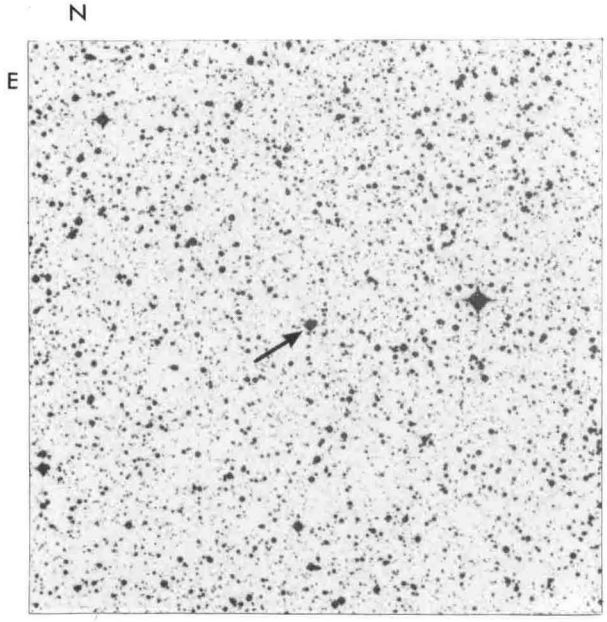
010.4+04.5 M 2-17 SRC J 589



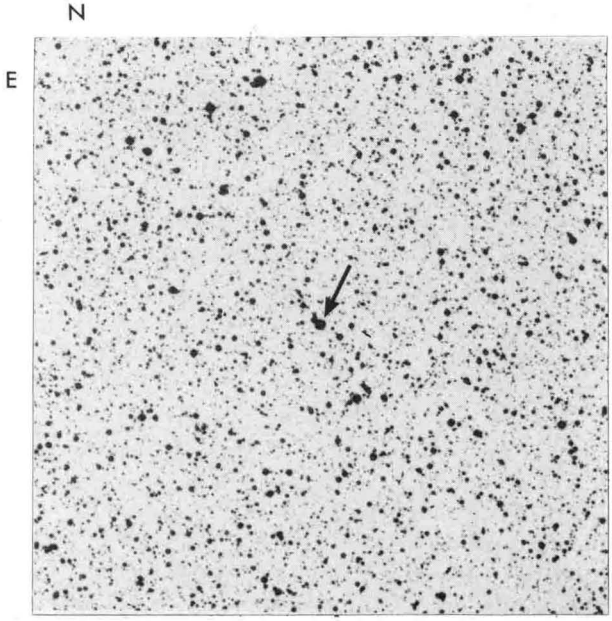
010.6+03.2 Th 4-10 SRC J 589



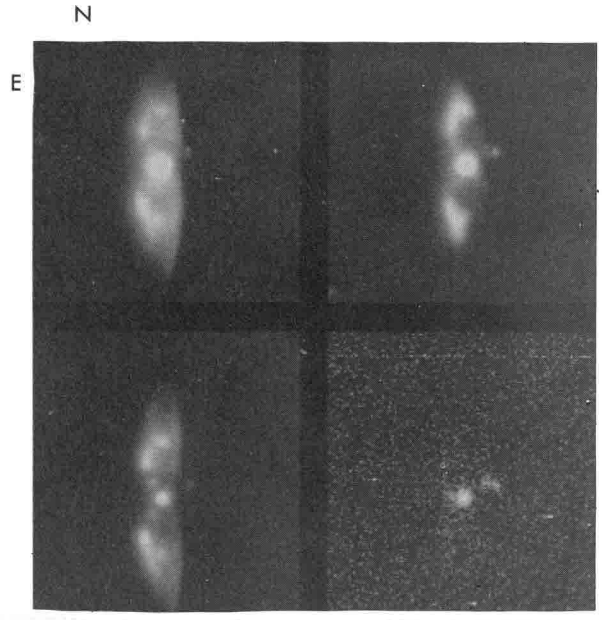
010.7+07.4 Sa 2-230 POS O 159



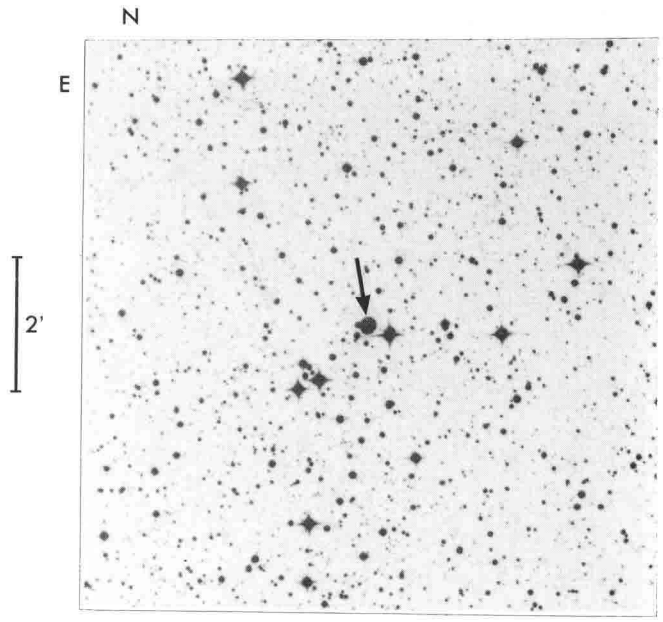
010.7-06.4 IC 4732 SRC J 591



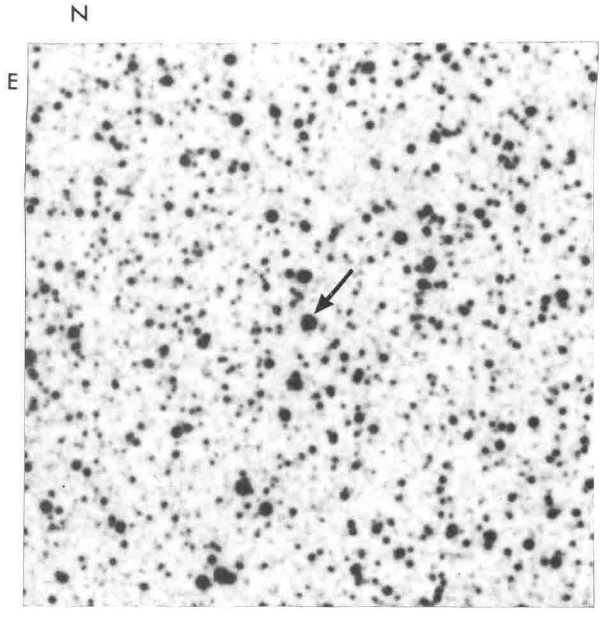
010.7-06.7 Pe 1-13 SRC J 591



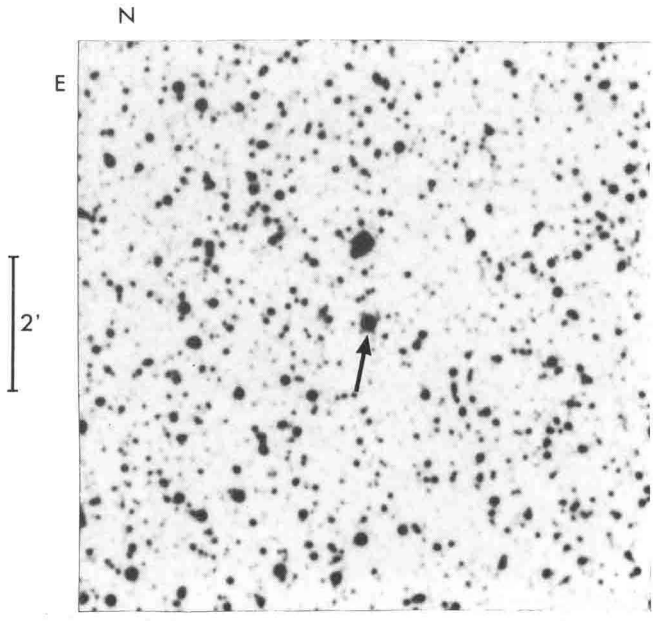
010.8+18.0 M 2- 9 BALICK 87



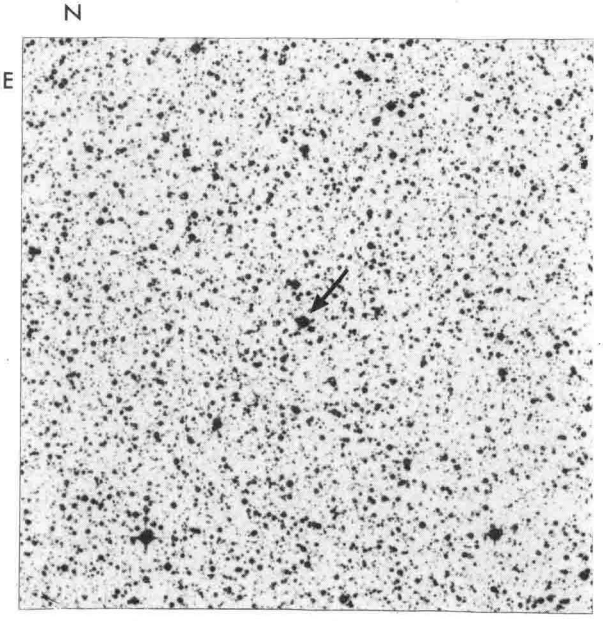
010.8-01.8 NGC 6578 SRC J 590



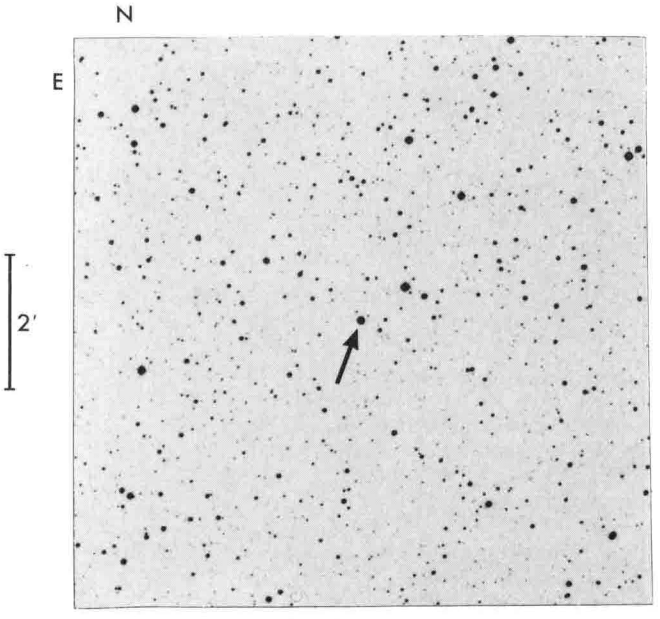
011.0+06.2 M 2-15 POS O 159



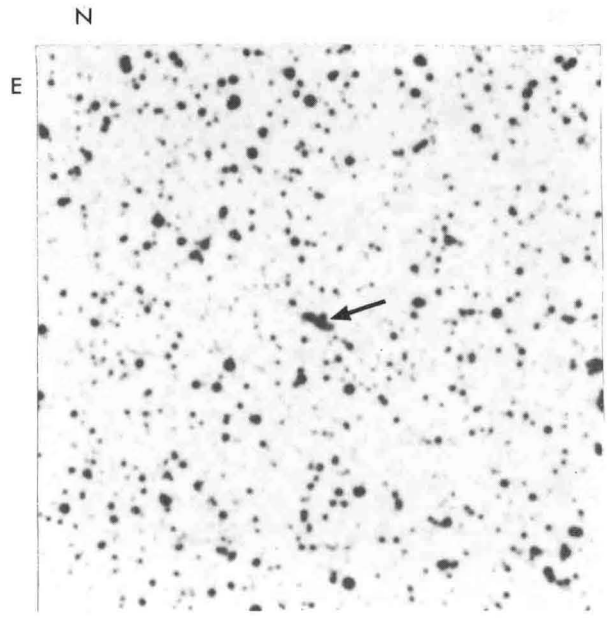
011.0+05.8 NGC 6439 POS O 159



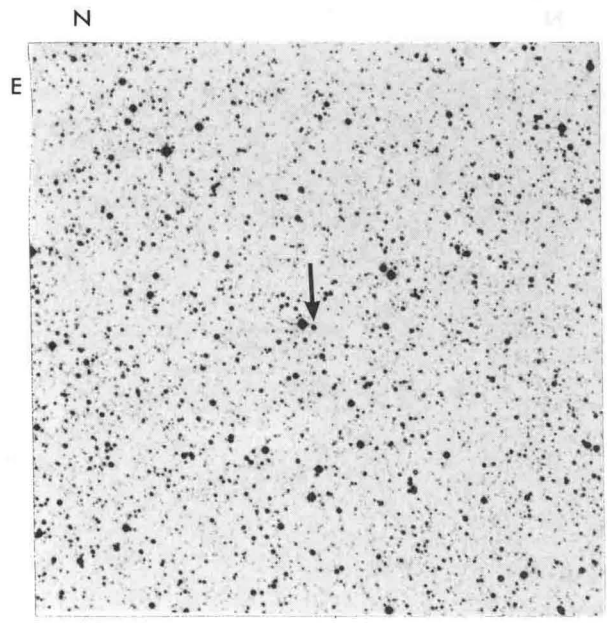
011.0-05.1 M 1-47 SRC J 591



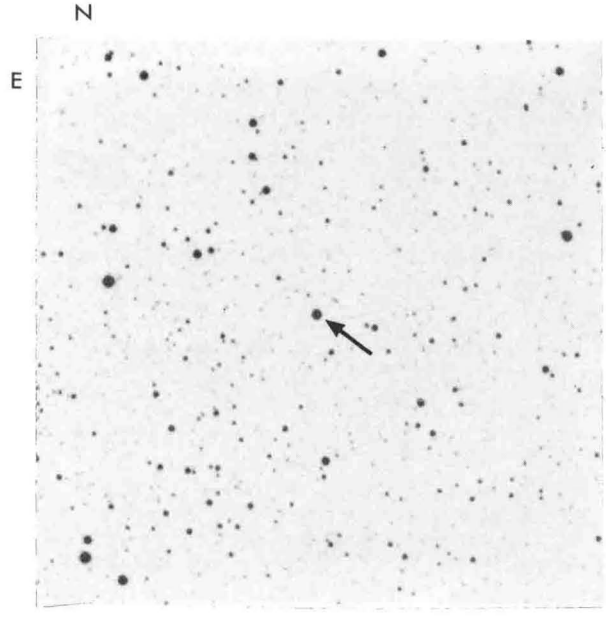
011.1+11.5 M 2-13 SRC J 659



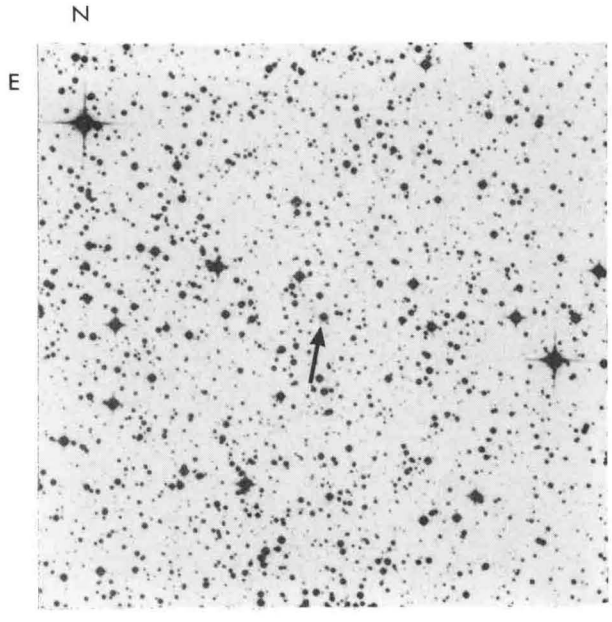
011.1+07.0 Sa 2-237 POS O 159



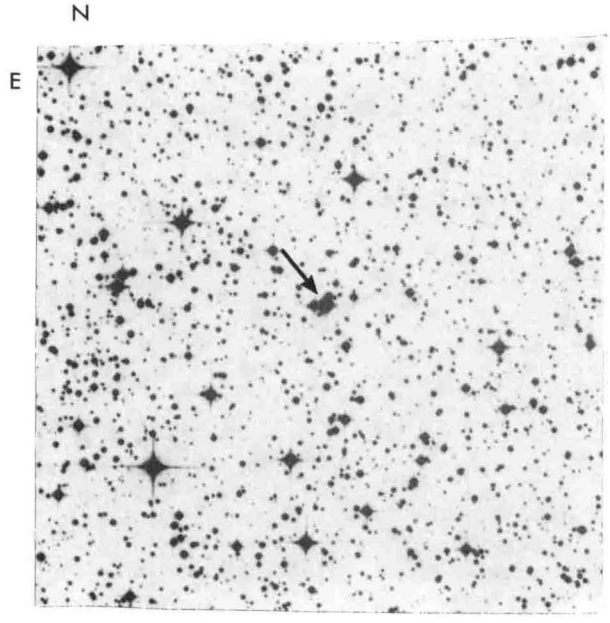
011.3+02.8 Th 4-11 SRC J 589



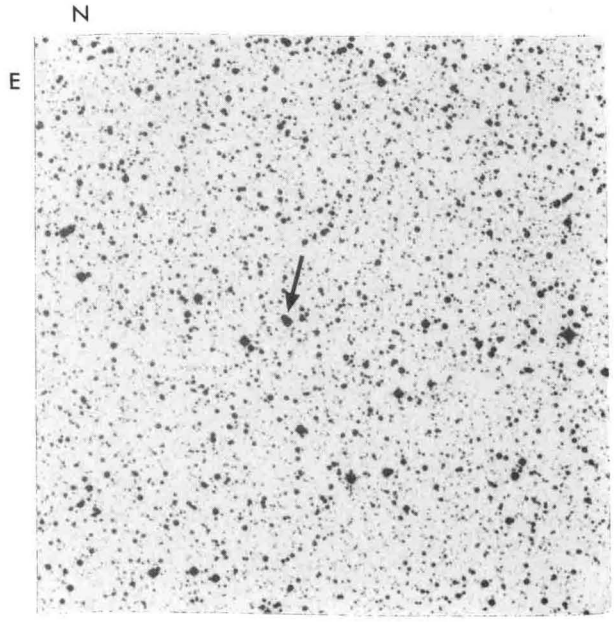
011.3-09.4 H 2-48 ESO B 523



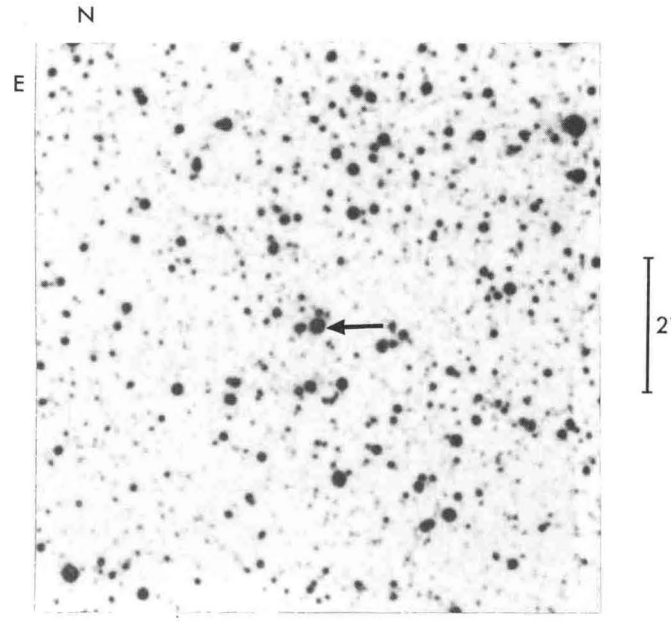
011.7 - 00.0 M 1-43 SRC J 590



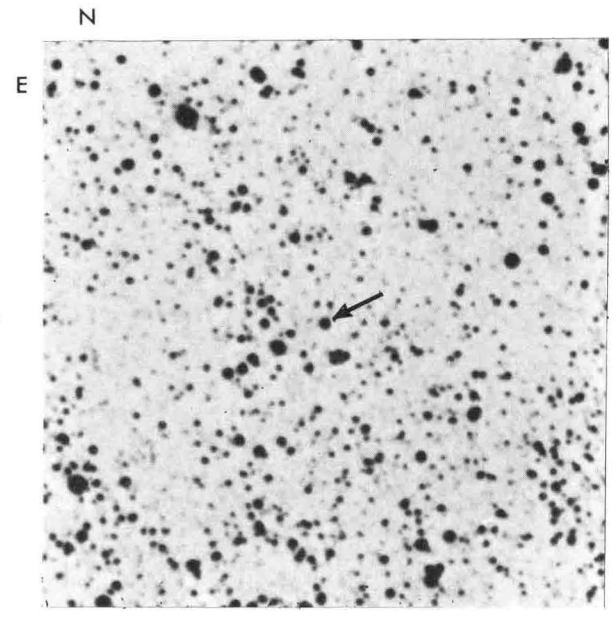
011.7 - 00.6 NGC 6567 SRC J 590



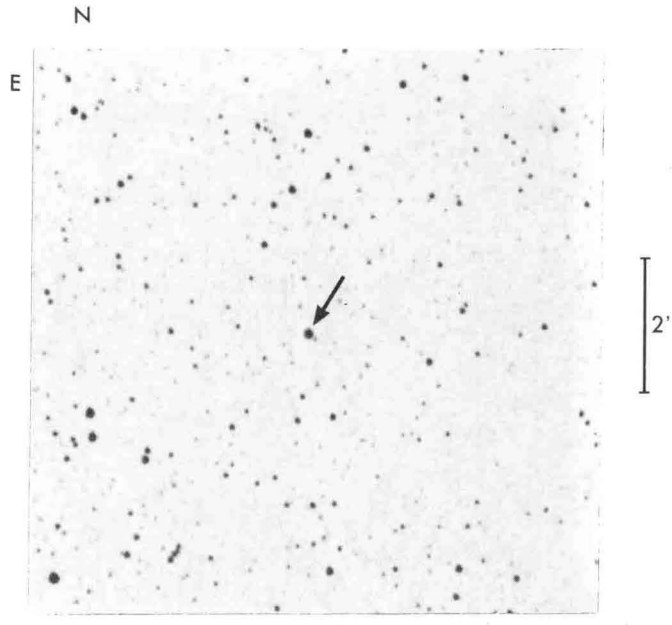
011.7-06.6 M 1-55 SRC J 591



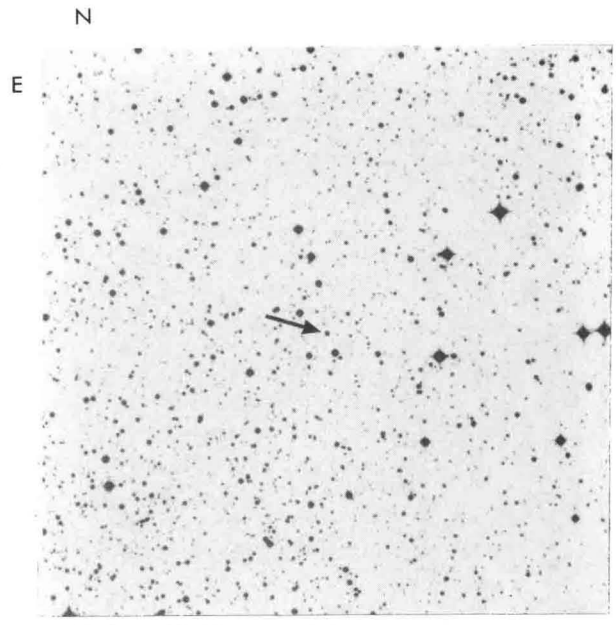
011.9+04.2 M 1-32 POS O 159



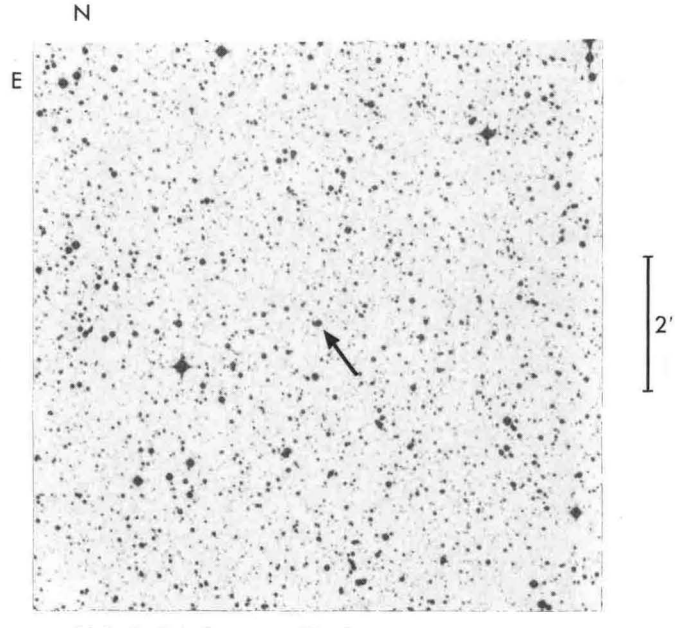
012.2+04.9 PM 1-188 POS O 159



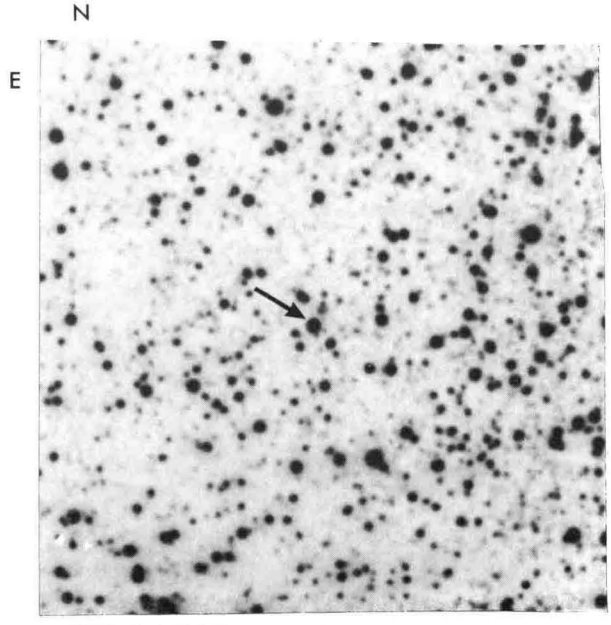
012.5-09.8 M 1-62 ESO B 523



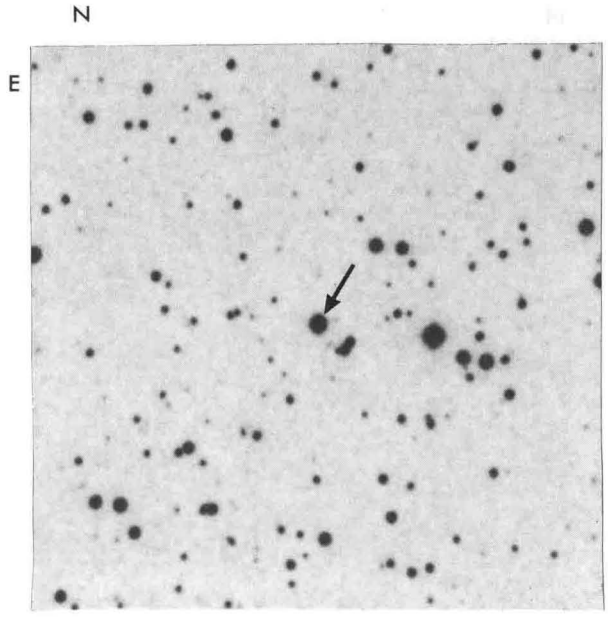
012.6-02.7 M 1-45 SRC J 590



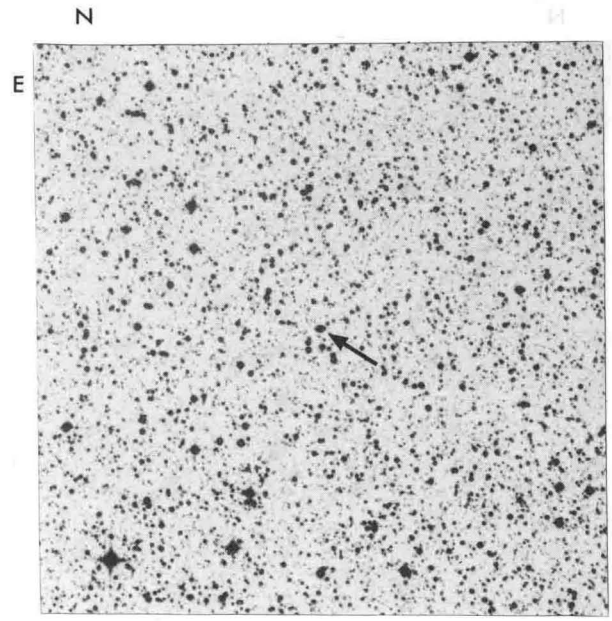
013.0-04.3 Pe 2-14 SRC J 591



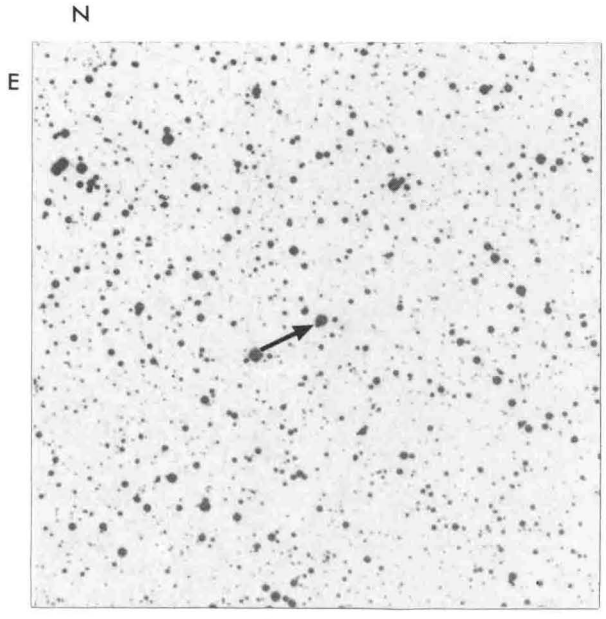
013.1+04.1 M 1-33 POS O1106



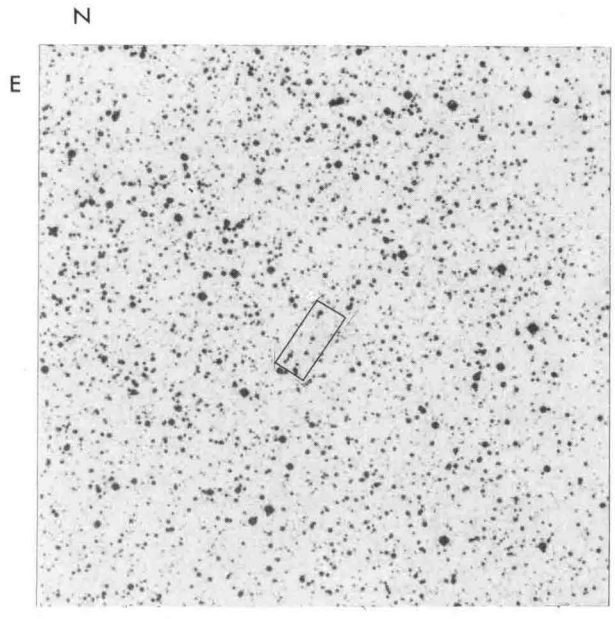
013.3+32.7 Sn 1 POS E 143



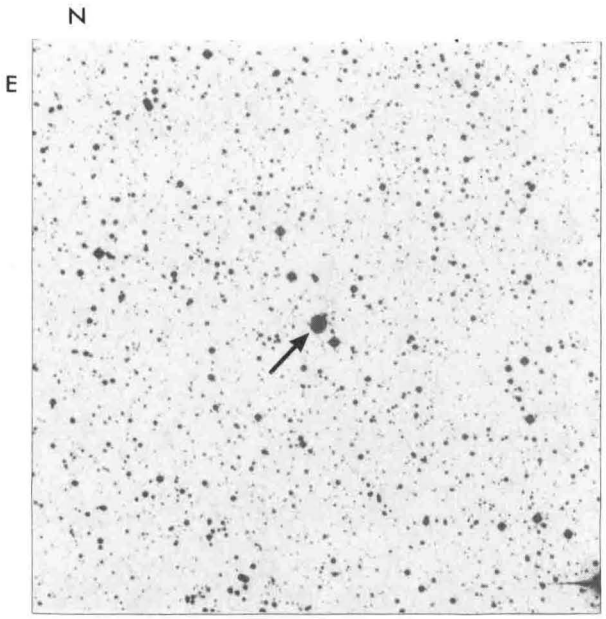
013.4-03.9 M 1-48 SRC J 591



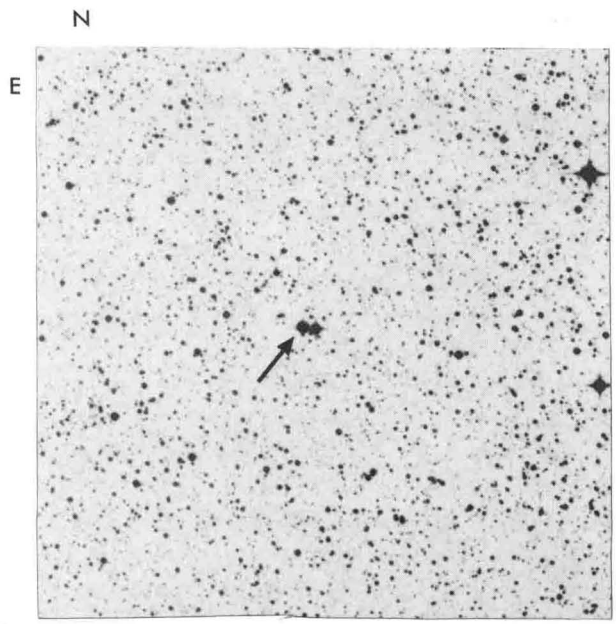
013.7-10.6 Y-C 2-32 SRC J 592



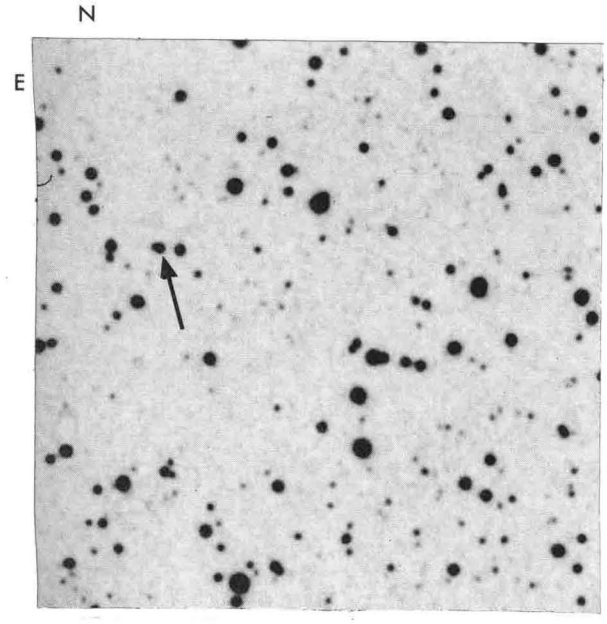
013.8-02.8 SaWe 3 SRC J 590



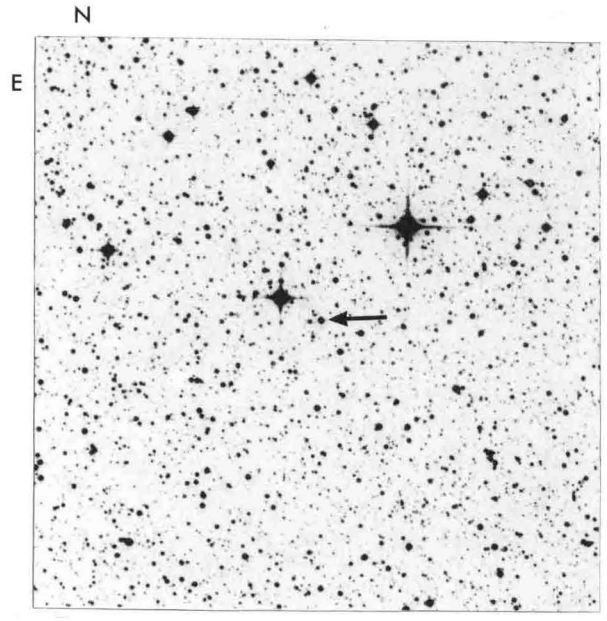
013.8-07.9 PC 21 SRC J 591



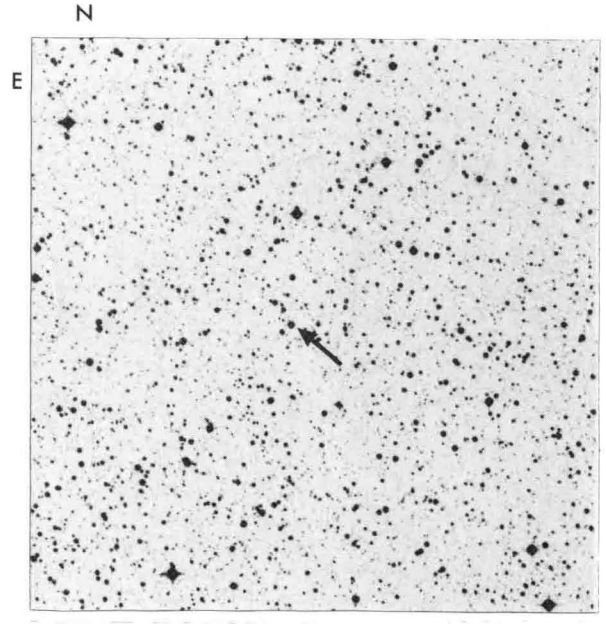
014.0-05.5 V-V 3-5 SRC J 591



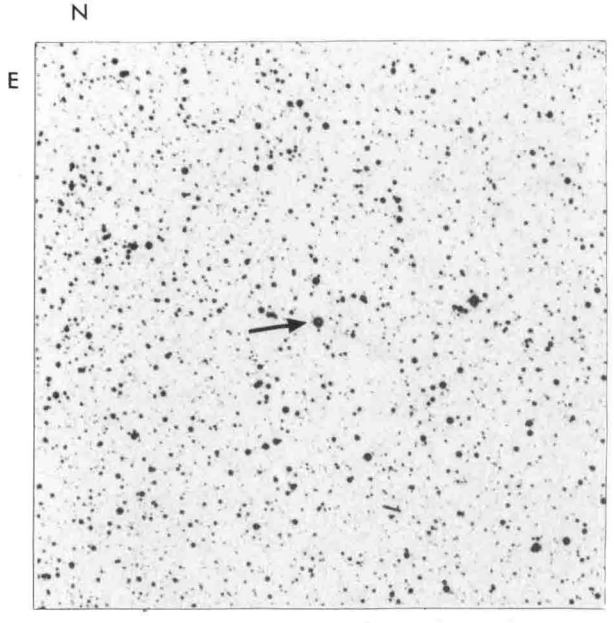
014.2+04.2 Sa 3-111 POS O 503



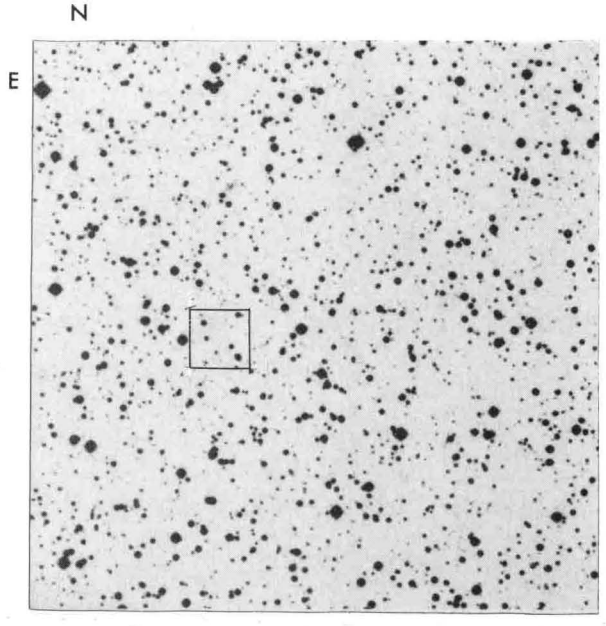
014.2-07.3 M 3-31 SRC J 590



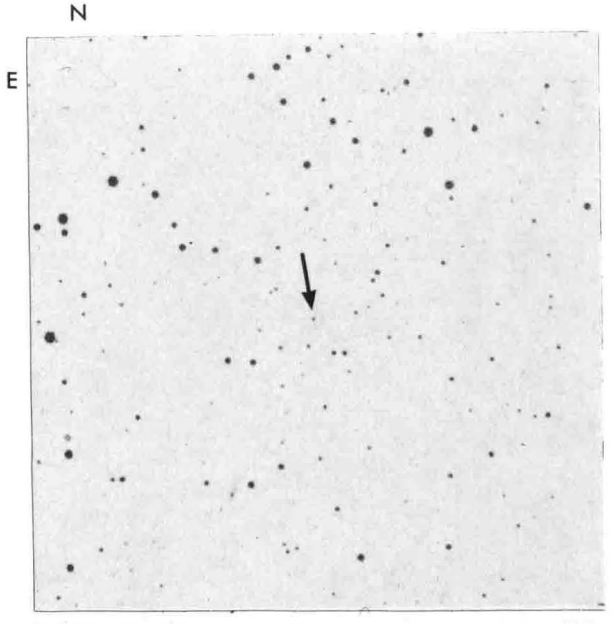
014.3-05.5 V-V 3-6 SRC J 591



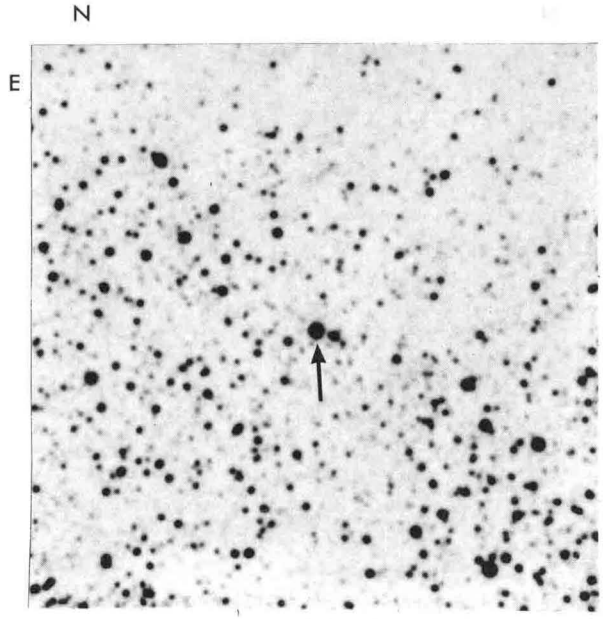
014.6-04.3 M 1-50 SRC J 591



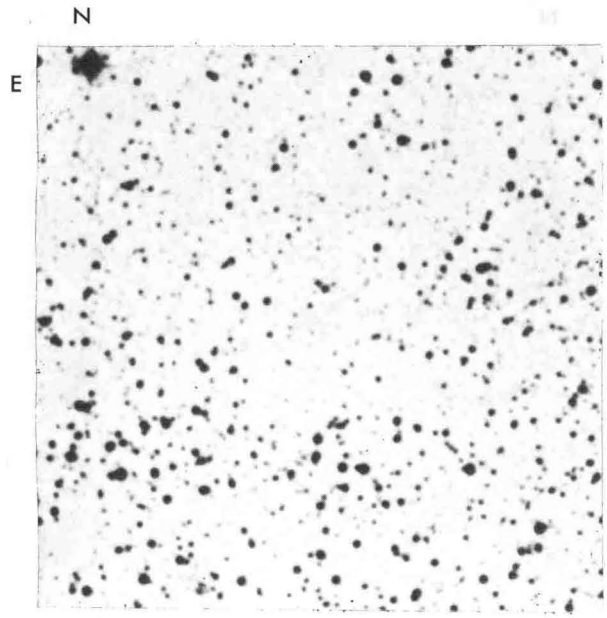
014.7-11.8 SaWe 4 SRC J 592



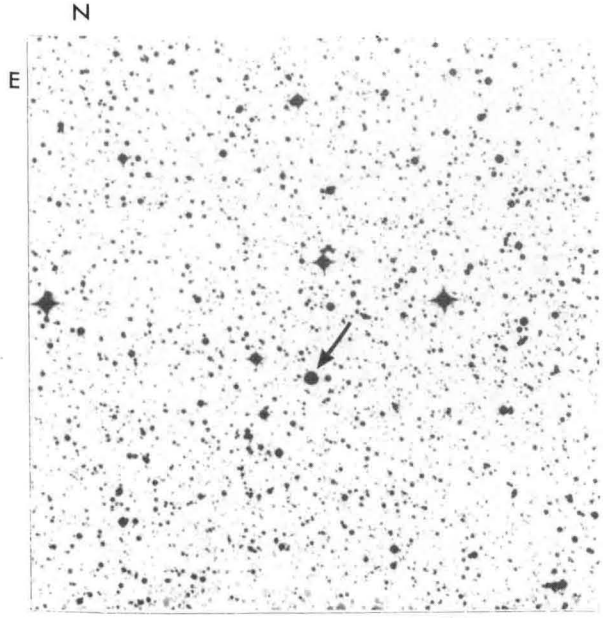
014.8-25.6 HDW 12 ESO B 526



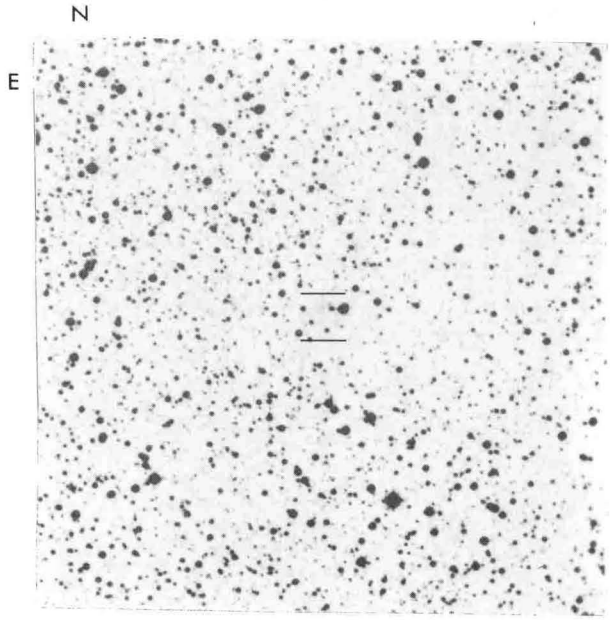
014.9+06.4 K 2- 5 POS O1098



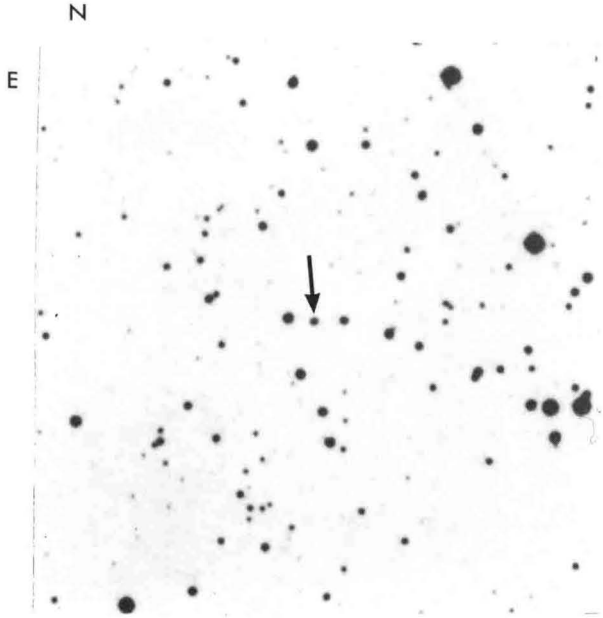
014.9–03.1 SaSt 3-166 POS O 569
(no ident.)



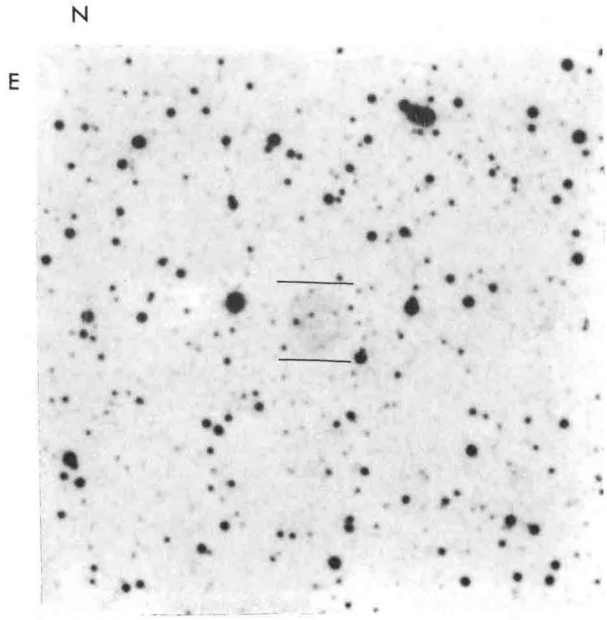
015.4-04.5 M 1-53 SRC J 591



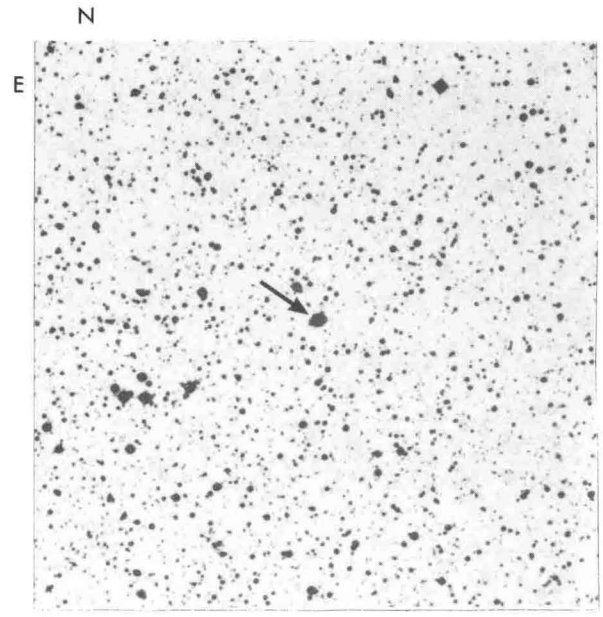
015.6-03.0 A 44 SRC J 662



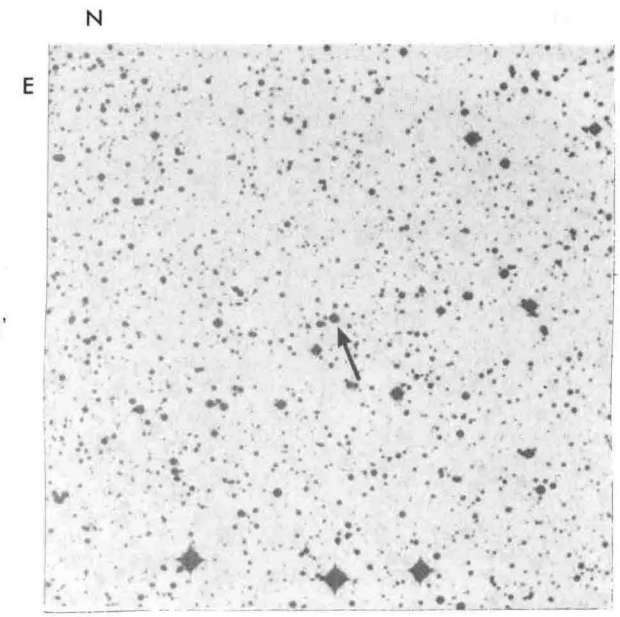
015.9+03.3 M 1-39 POS O 503



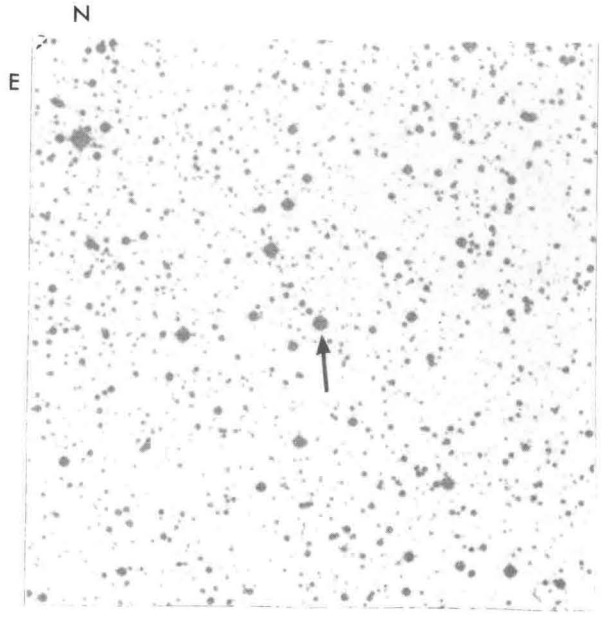
016.0+13.5 A 42 POS E 266



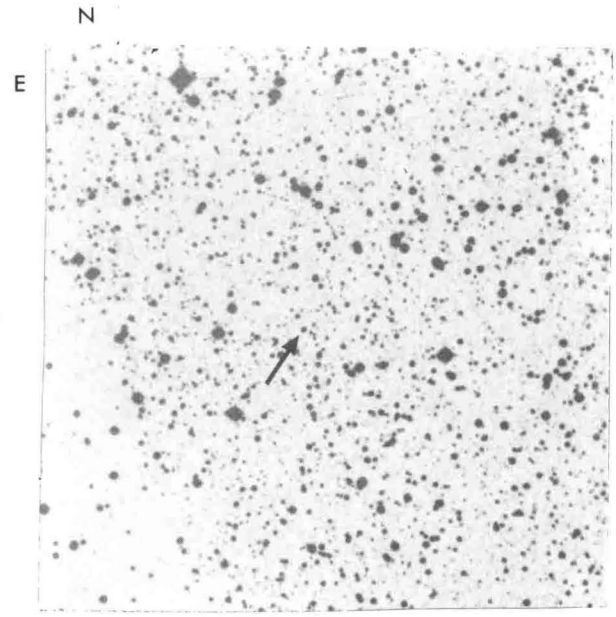
016.0-04.3 M 1-54 SRC J 663



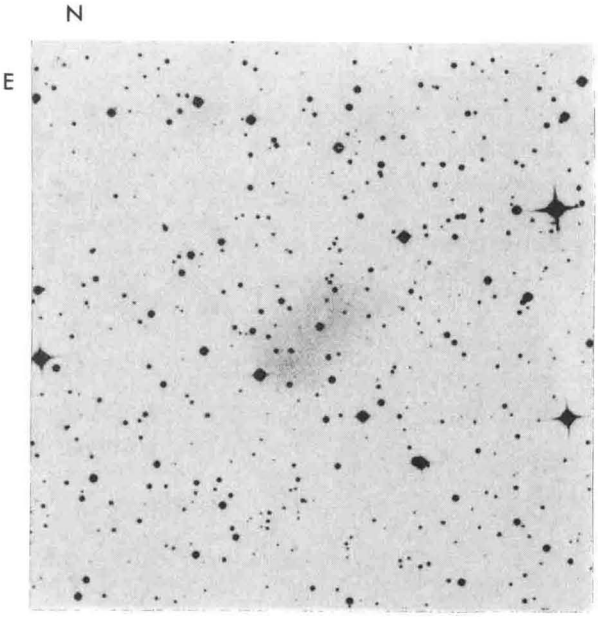
016.1-04.7 M 1-56 SRC J 663



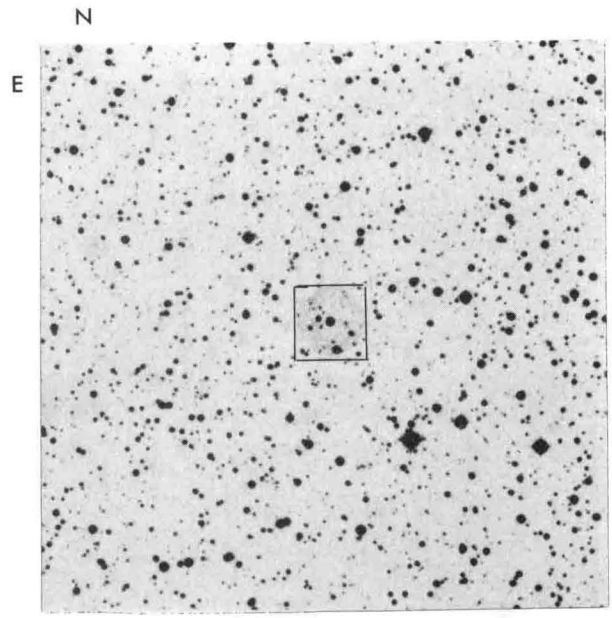
016.4-01.9 M 1-46 SRC J 662



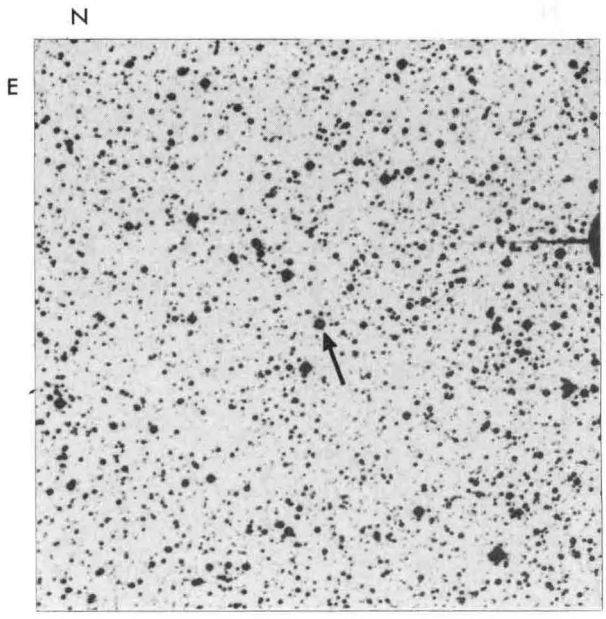
016.9-02.0 Sa 3-134 SRC J 662



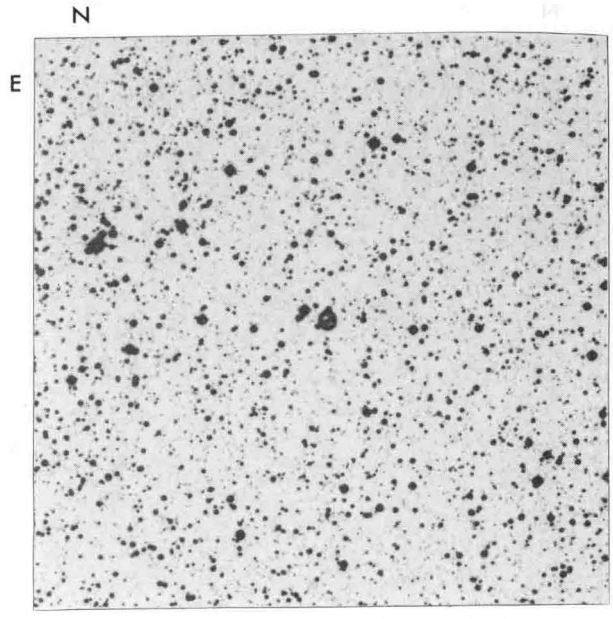
017.3-21.9 A 65 ESO B 526



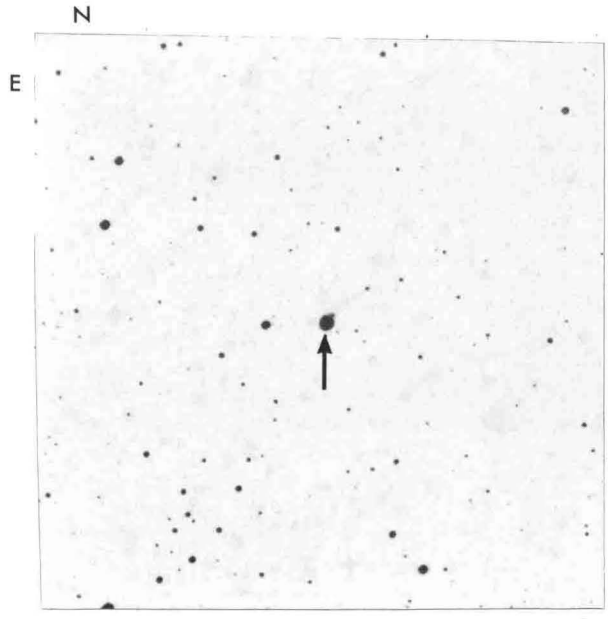
017.6-10.2 A 51 SRC J 592



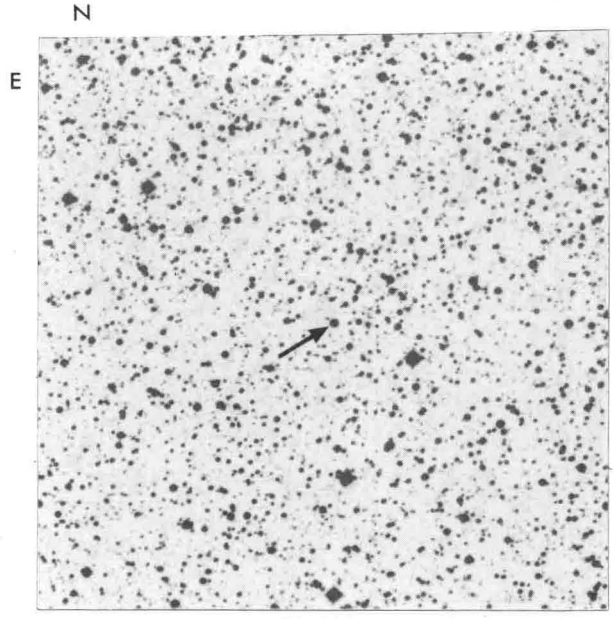
017.7-02.9 M 1-52 SRC J 663



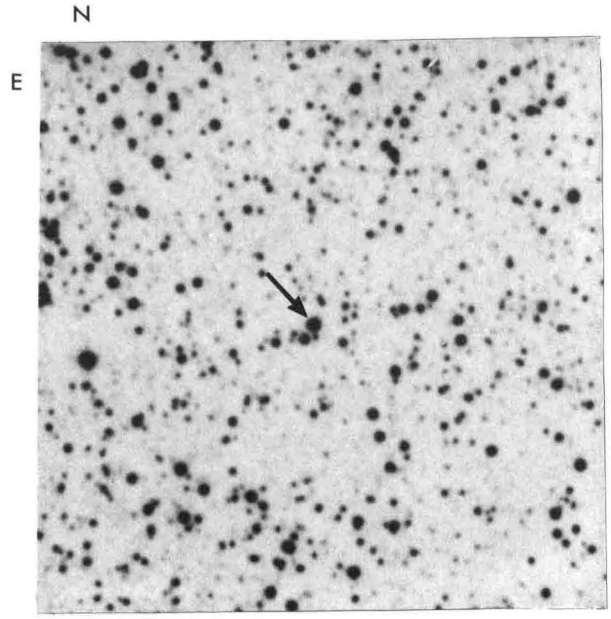
017.9-04.8 M 3-30 SRC J 663



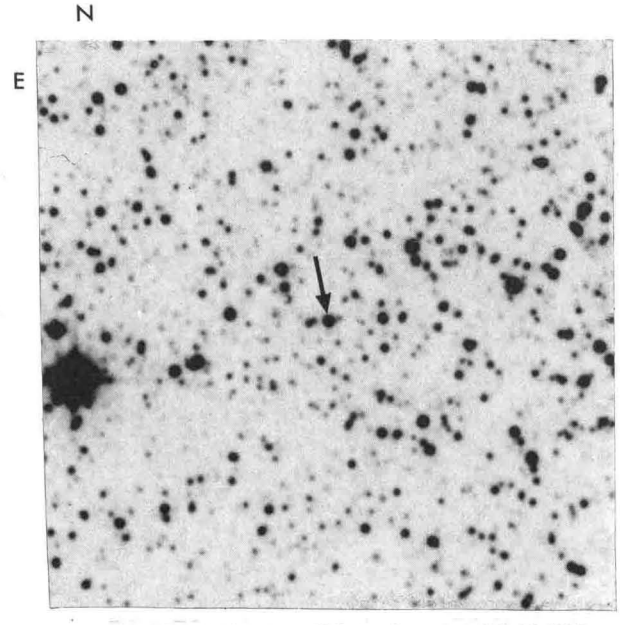
018.0+20.1 Na 1 SRC J 803



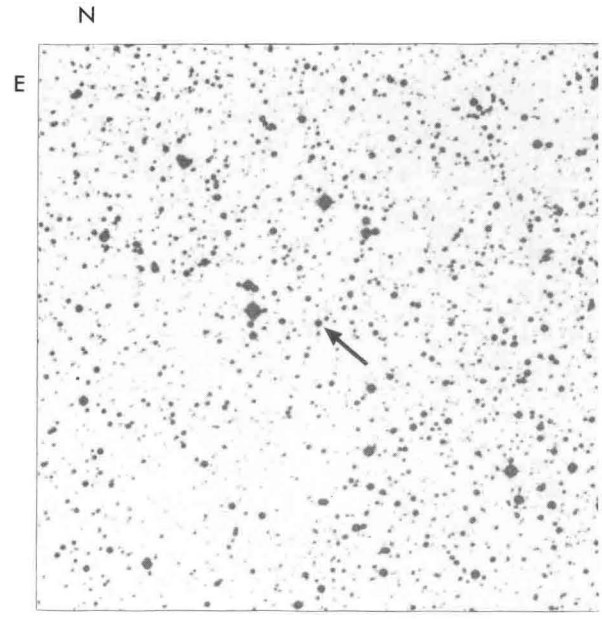
018.6-02.2 M 3-54 SRC J 663



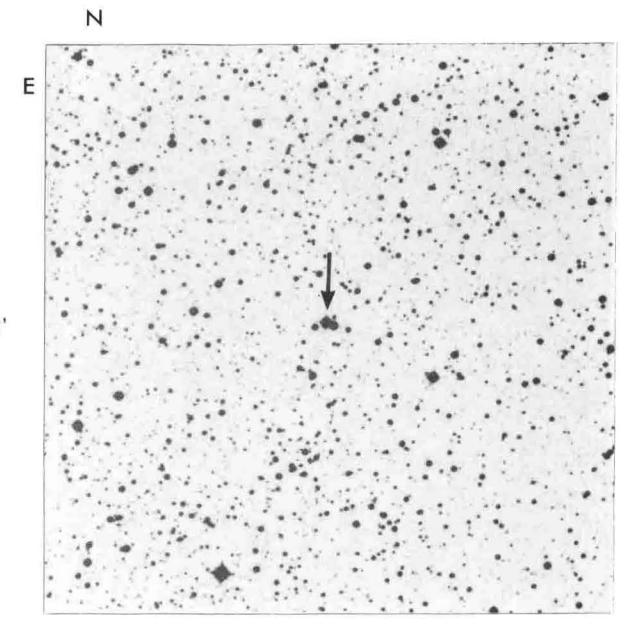
018.9+04.1 M 3-52 POS E 503



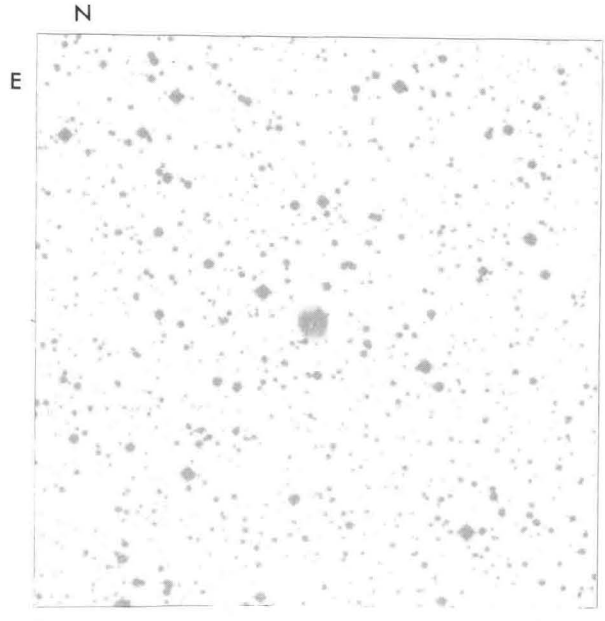
018.9+03.6 M 4- 8 POS E 503



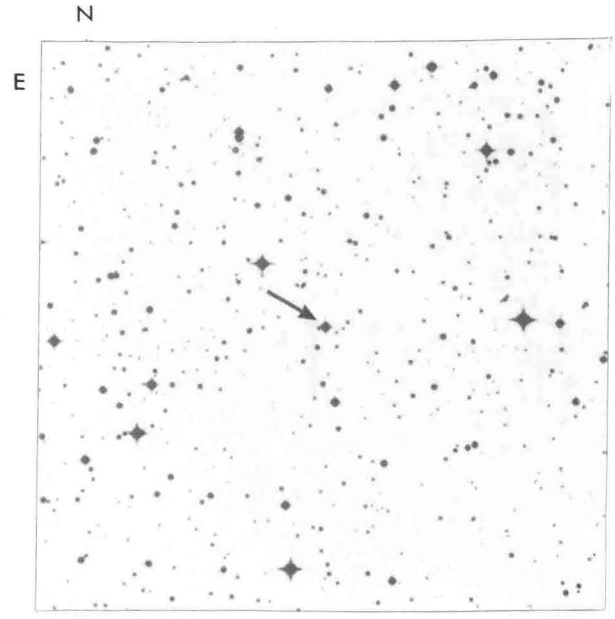
019.2-02.2 M 4-10 SRC J 663



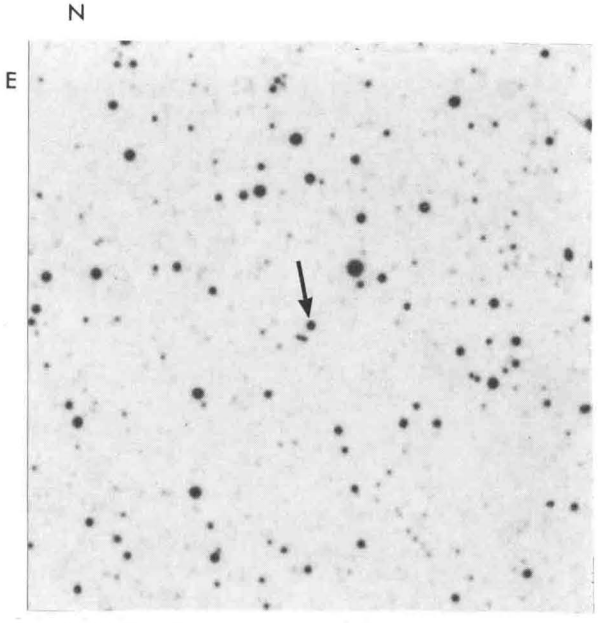
019.4-05.3 M 1-61 SRC J 663



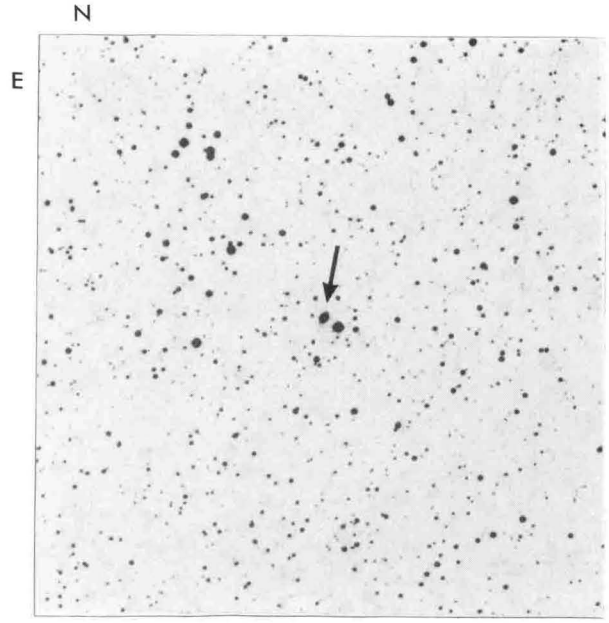
019.4-13.6 DeHt 3 SRC J 593



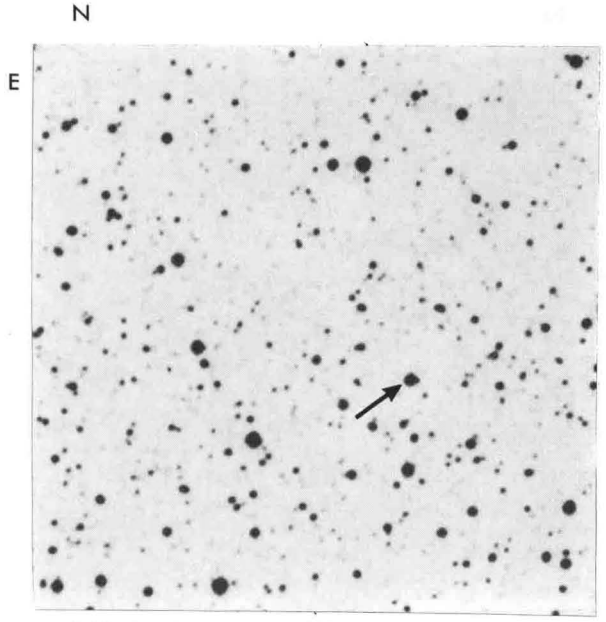
019.4-19.6 K 2- 7 SRC J 594



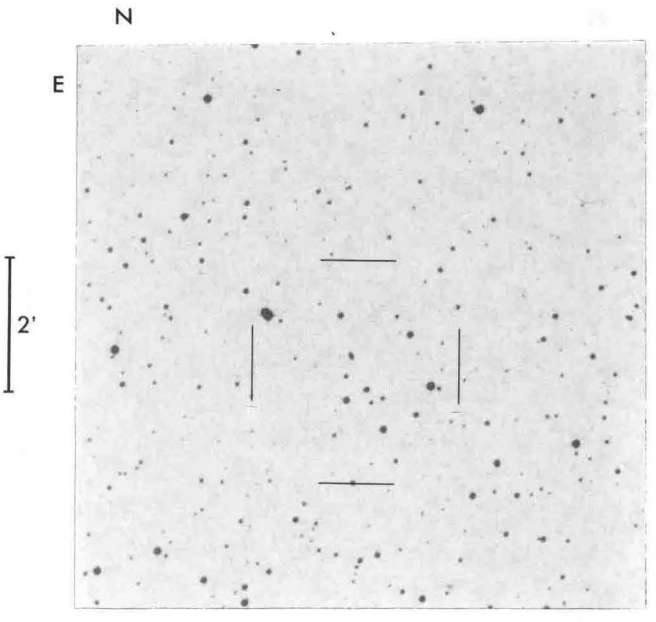
019.7+03.2 M 3-25 POS E 503



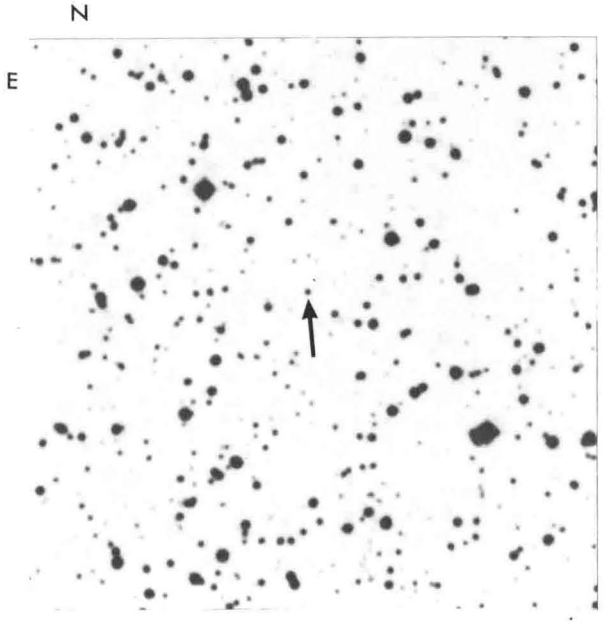
019.7-04.5 M 1-60 SRC J 663



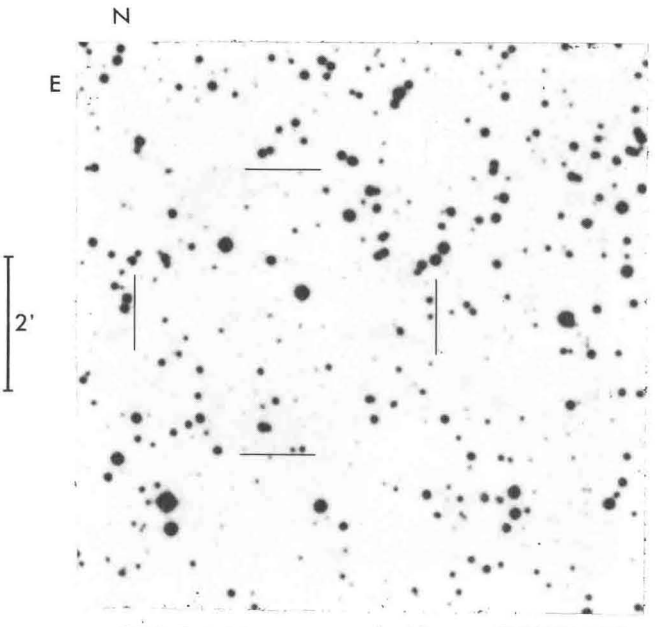
019.8+05.6 CTS 1 POS E 156



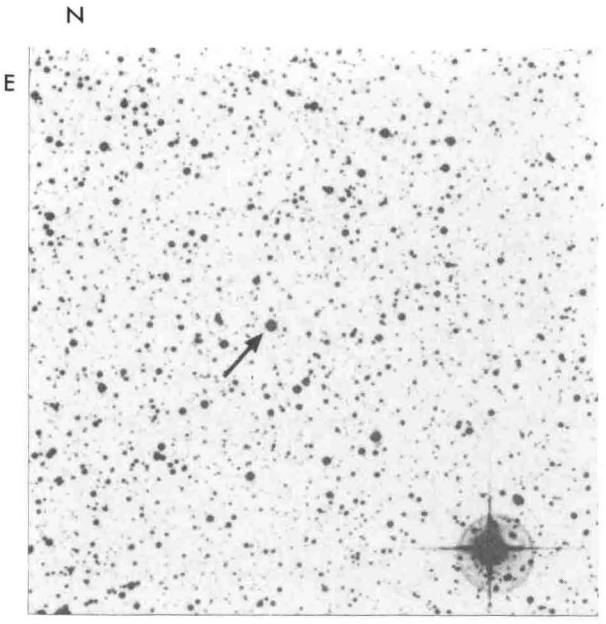
019.8-23.7 A 66 SRC J 595



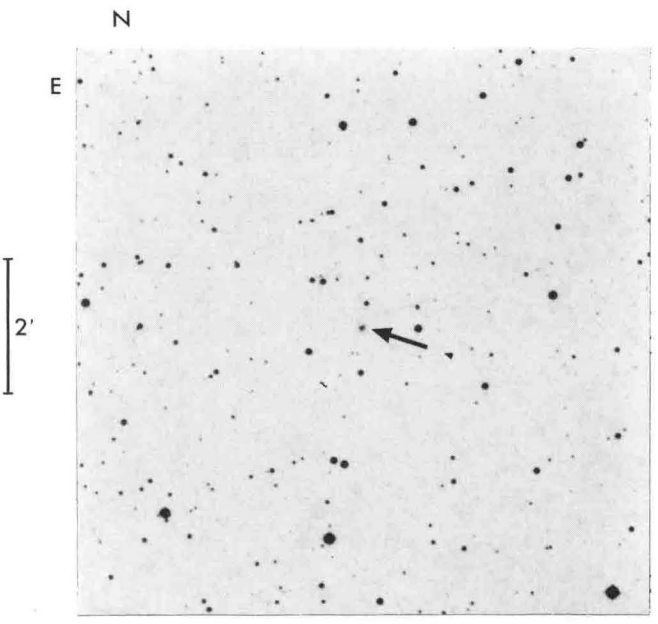
019.9+00.9 M 3-53 POS O 296



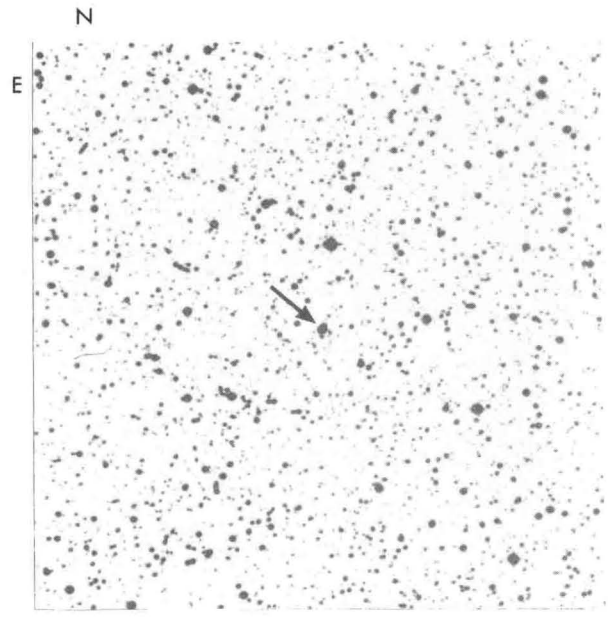
020.2+00.6 A 45 POS E 296



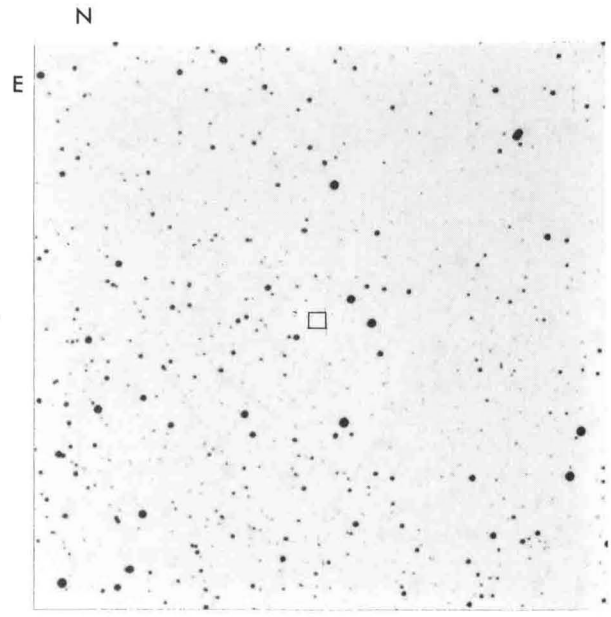
020.7-05.9 Sa 1-8 SRC J 663



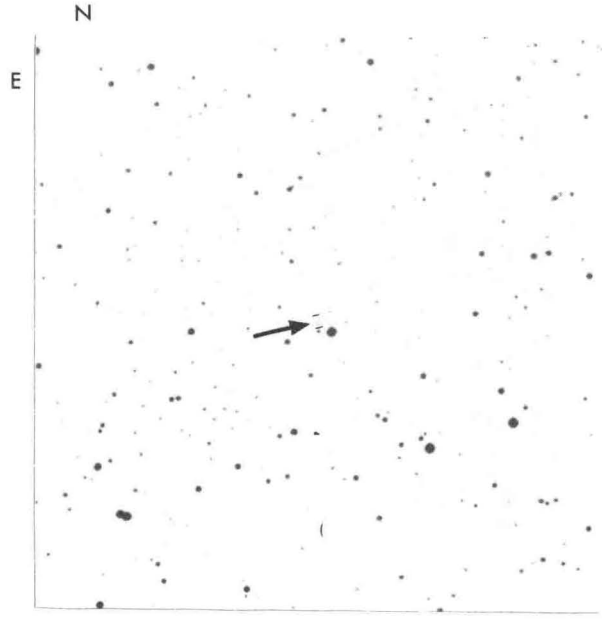
020.9-01.1 M 1-51 SRC J 735



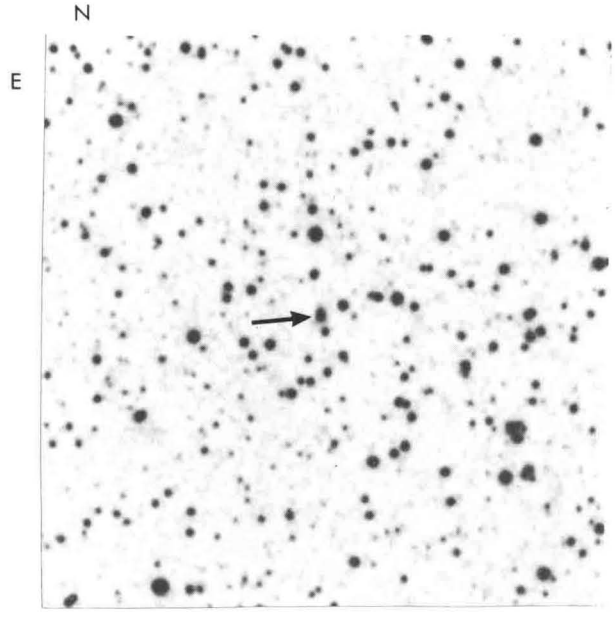
021.1-05.9 M 1-63 SRC J 663



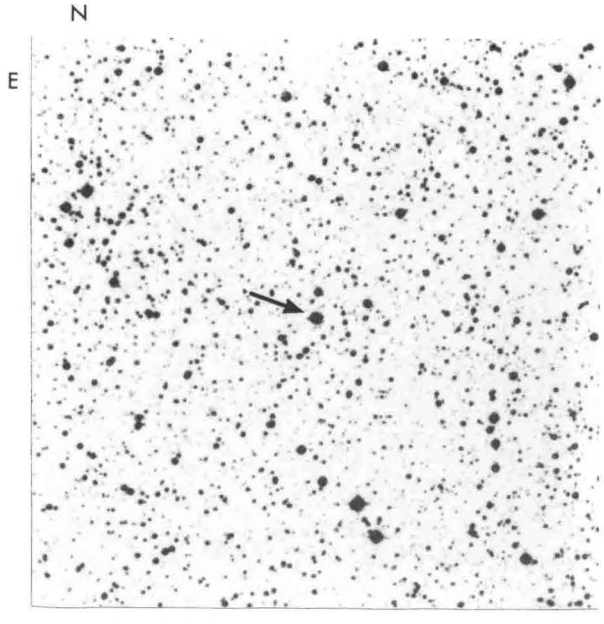
021.2-03.9 We 1- 7 SRC J 735



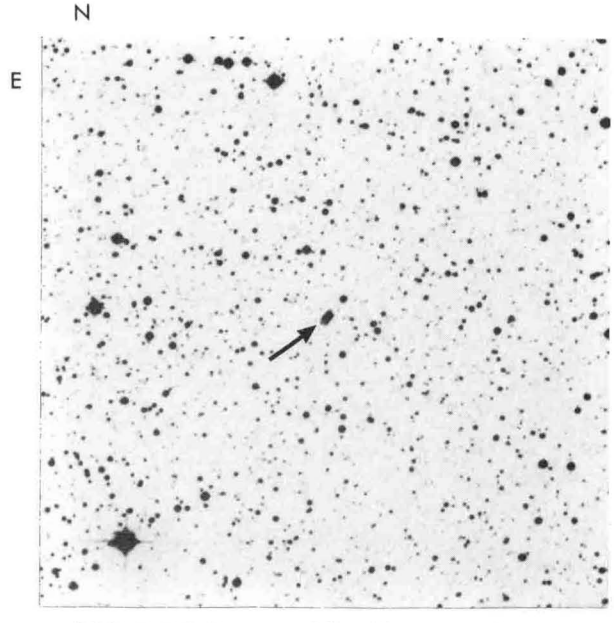
021.7 - 00.6 M 3-55 SRC J 735



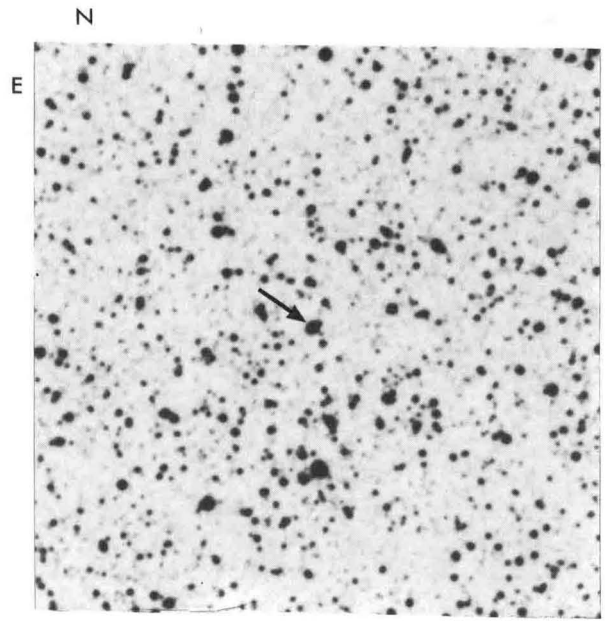
021.8 - 00.4 M 3-28 POS O 296



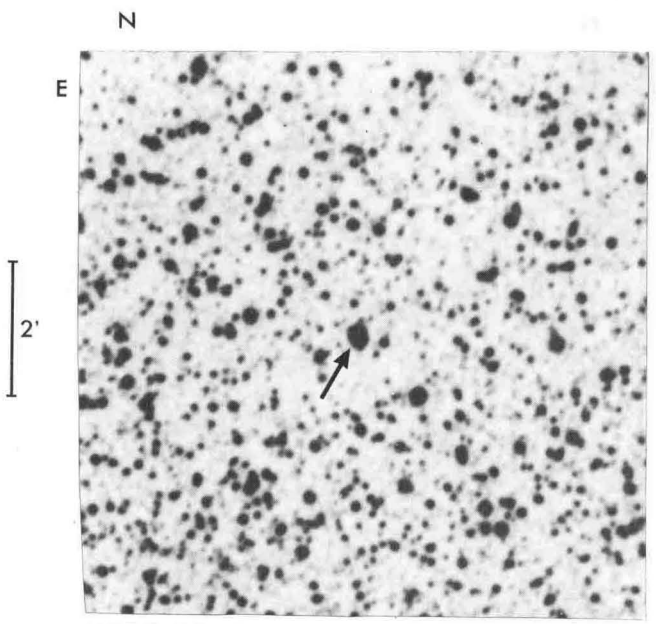
022.0-03.1 M 1-58 SRC J 735



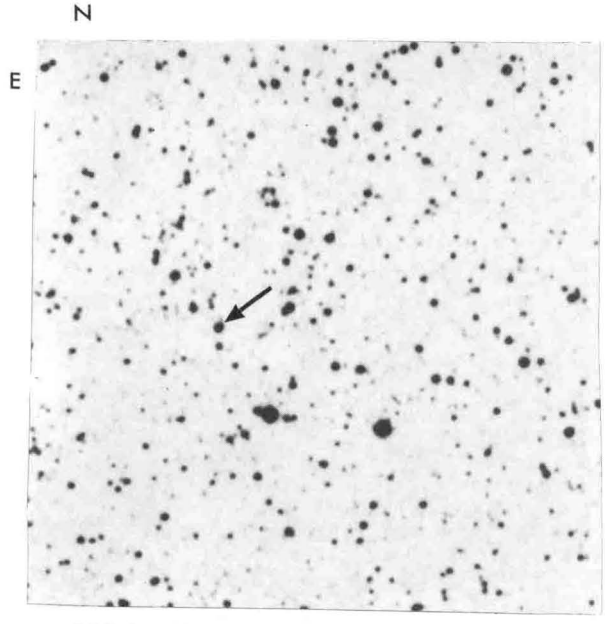
022.1-02.4 M 1-57 SRC J 735



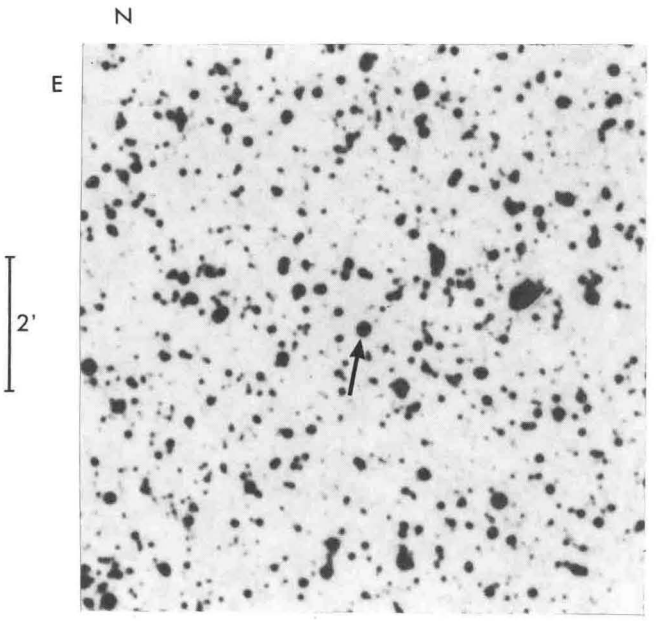
022.5+04.8 MA 2 POS E 156



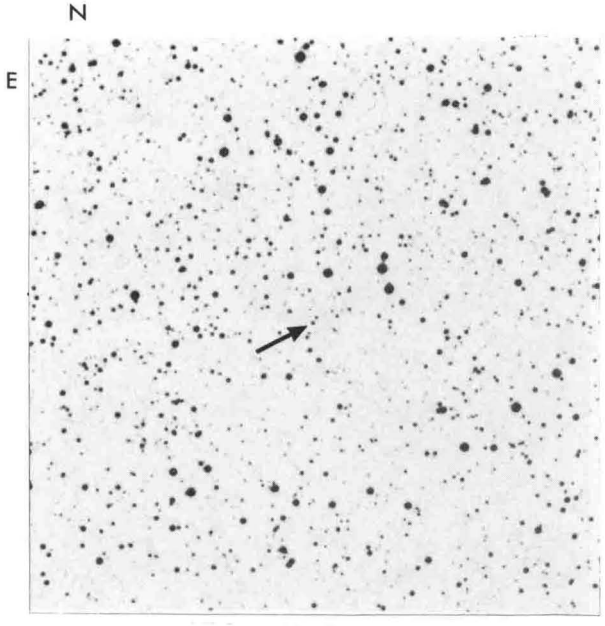
022.5+01.0 MaC 1-13 POS O 300



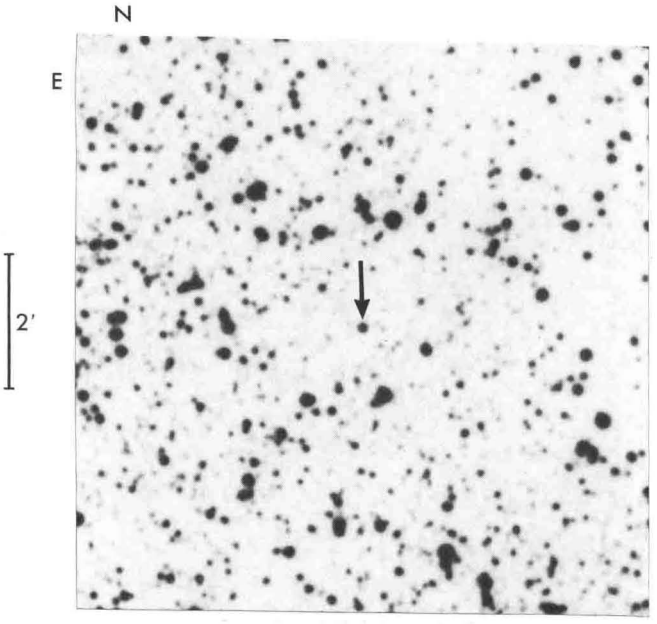
023.0+04.3 MA 3 POS E 156



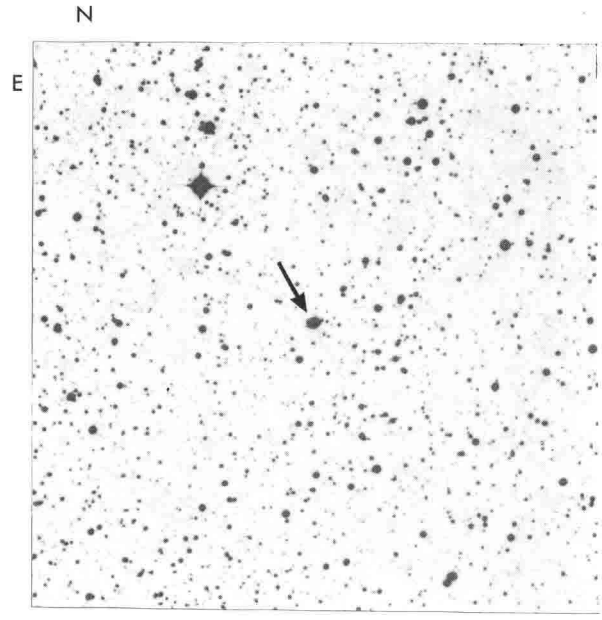
023.3-07.6 MaC 1-16 POS E 308



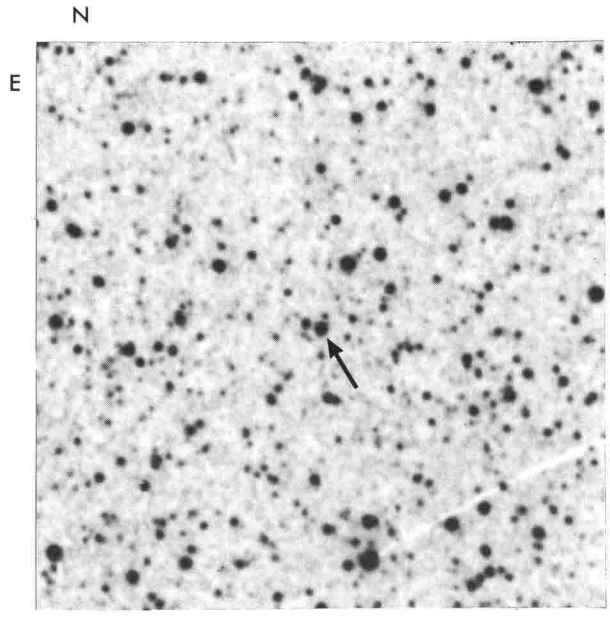
023.8-01.7 K 3-11 SRC J 735



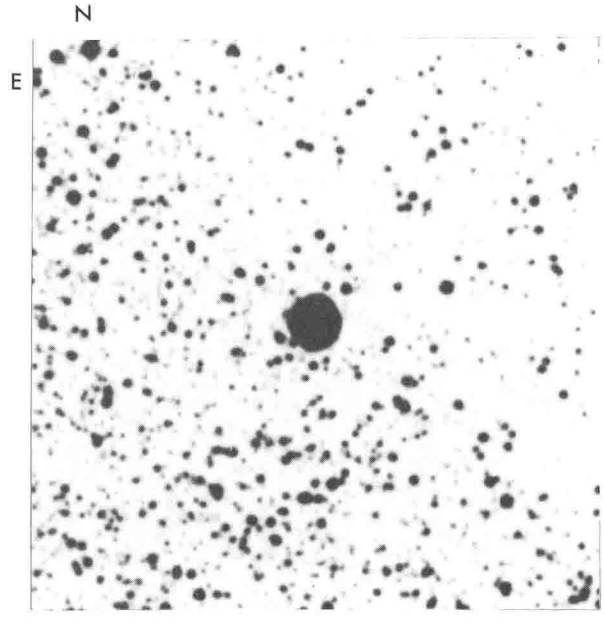
023.9+01.2 MA 13 POS E 300



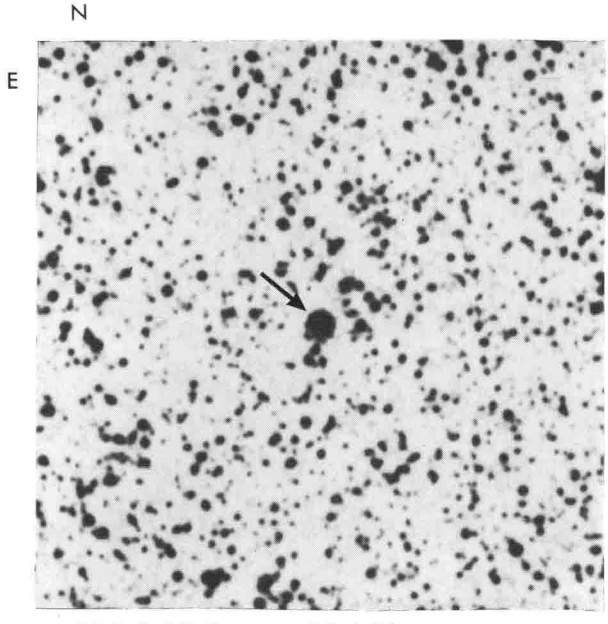
023.9-02.3 M 1-59 SRC J 735



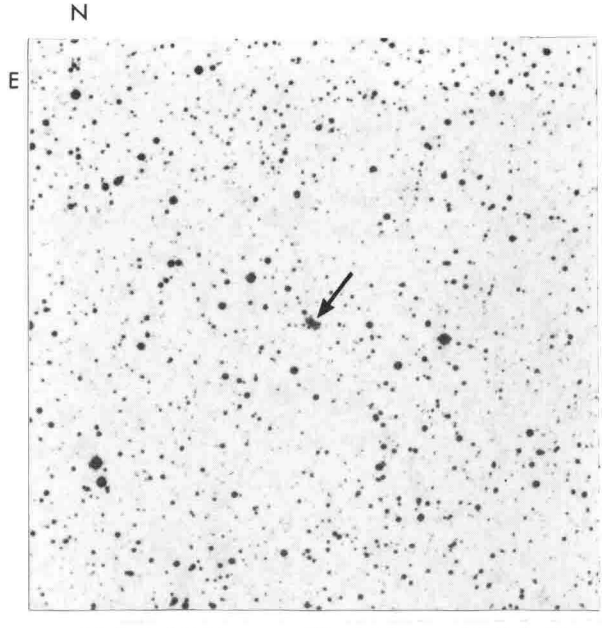
024.1+03.8 M 2-40 POS O 300



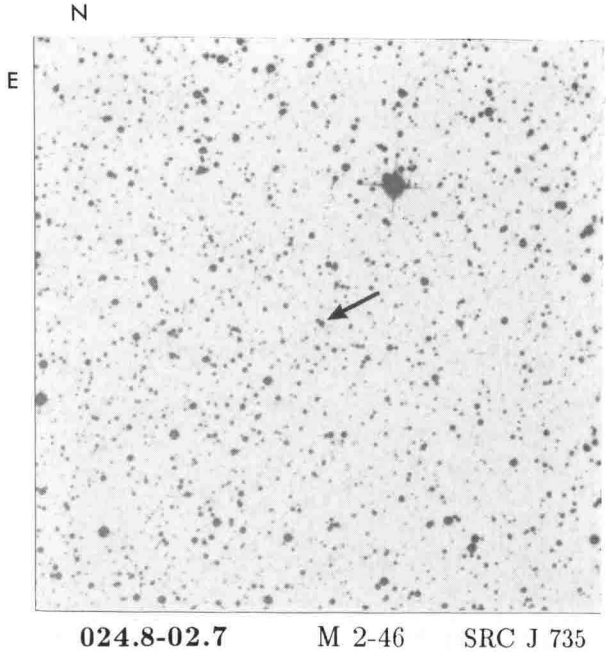
024.2+05.9 M 4- 9 POS E 156



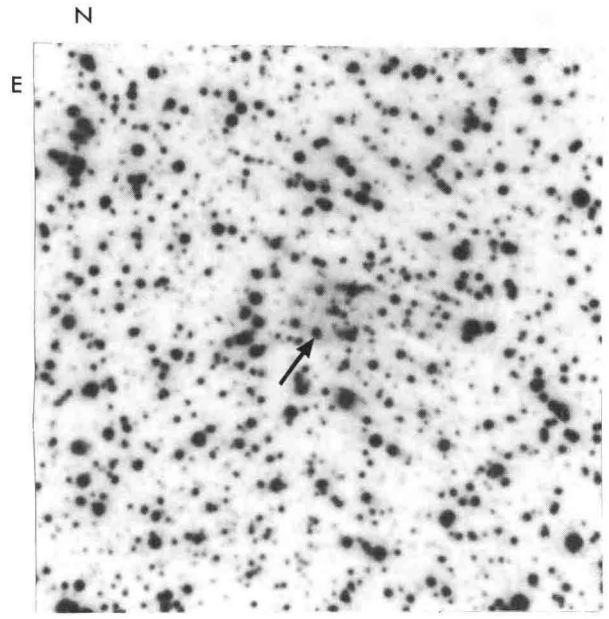
024.2-05.2 M 4-11 POS O 308



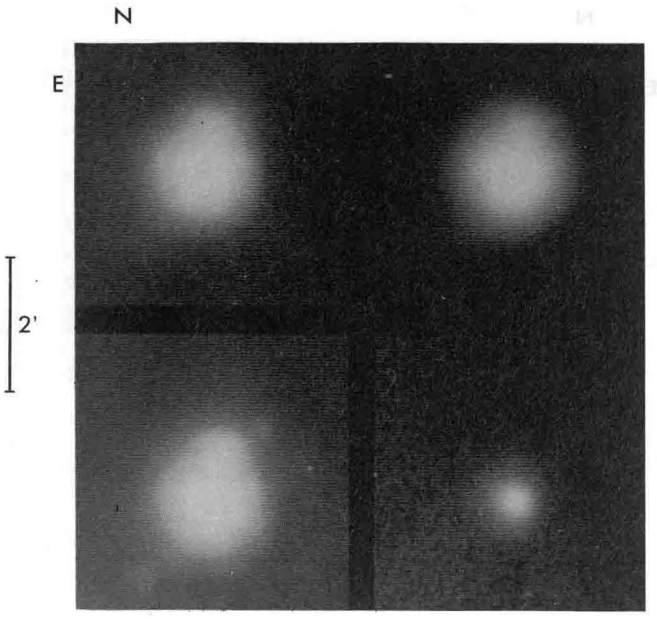
024.3-03.3 Pe 1-17 SRC J 735



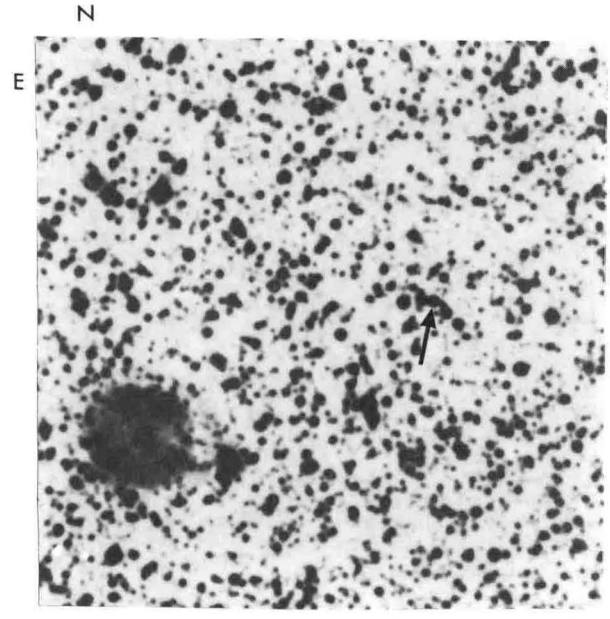
024.8-02.7 M 2-46 SRC J 735



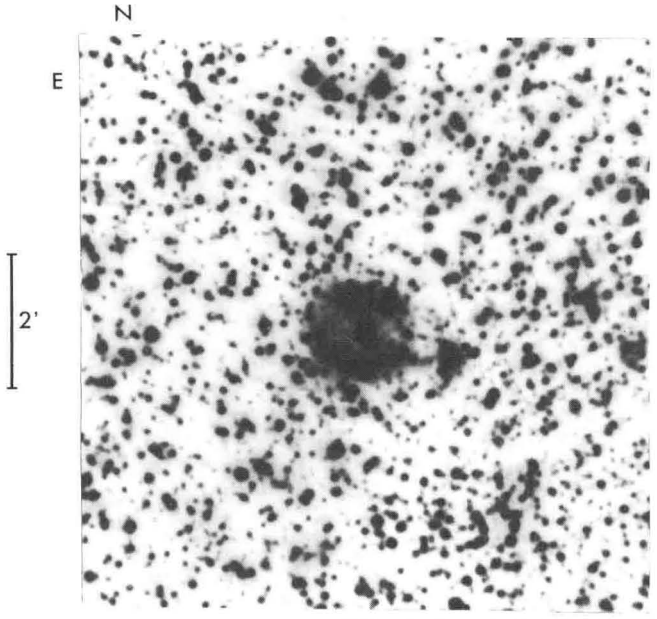
025.0-11.6 A 60 POS E 331



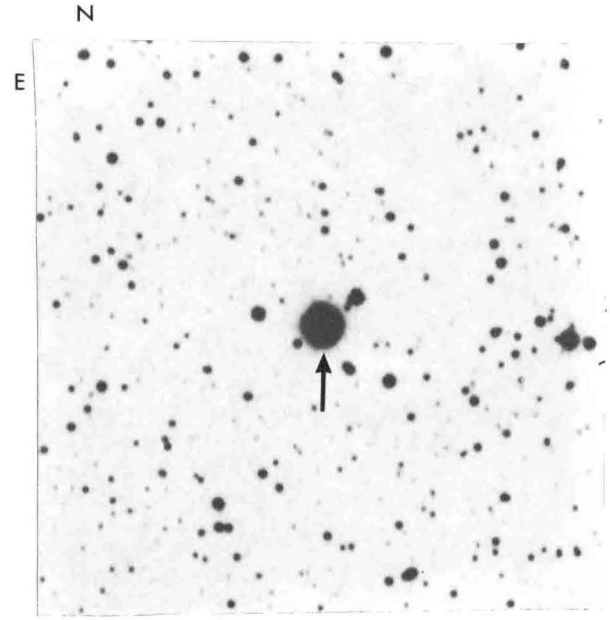
025.3+40.8 IC 4593 BALICK 87



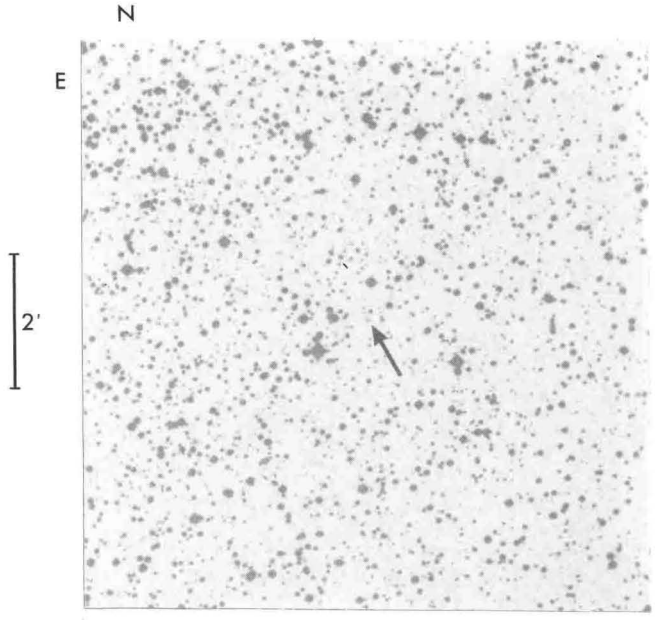
025.3-04.6 K 4- 8 POS O 308



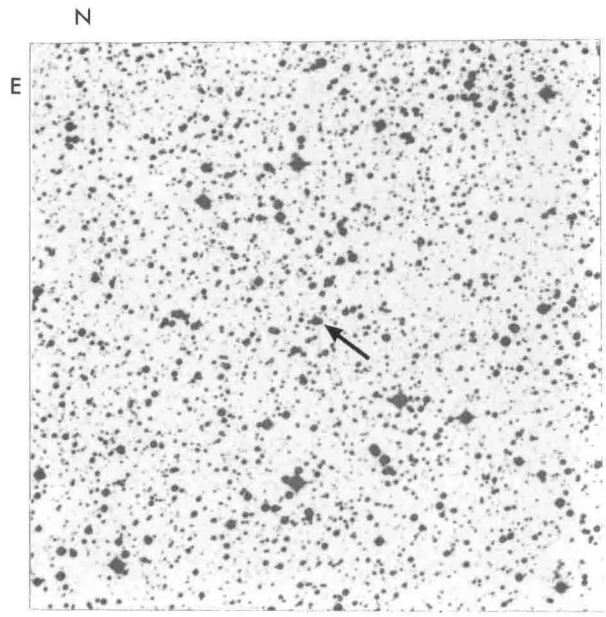
025.4-04.7 IC 1295 POS O 308



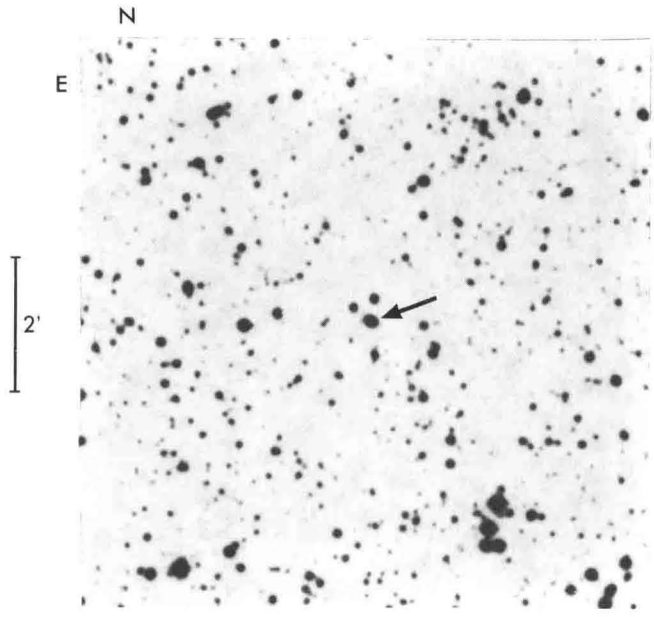
025.8-17.9 NGC 6818 POS E 294



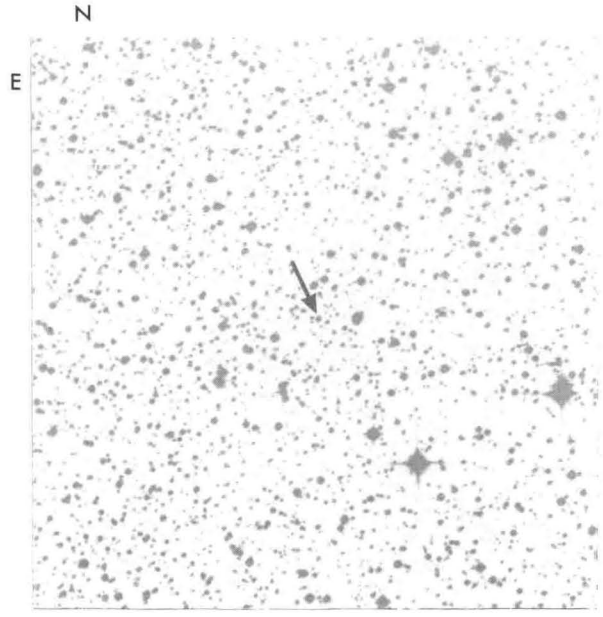
025.9 - 00.9 Pe 1-14 SRC J 807



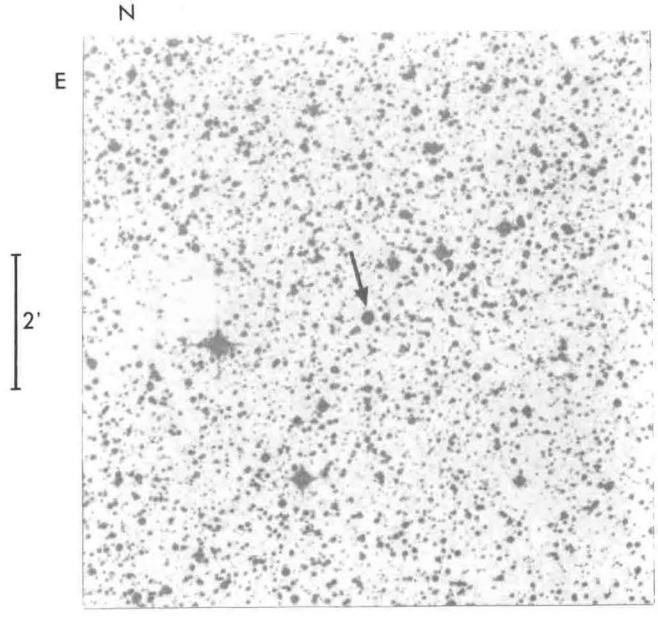
025.9-02.1 Pe 1-15 SRC J 807



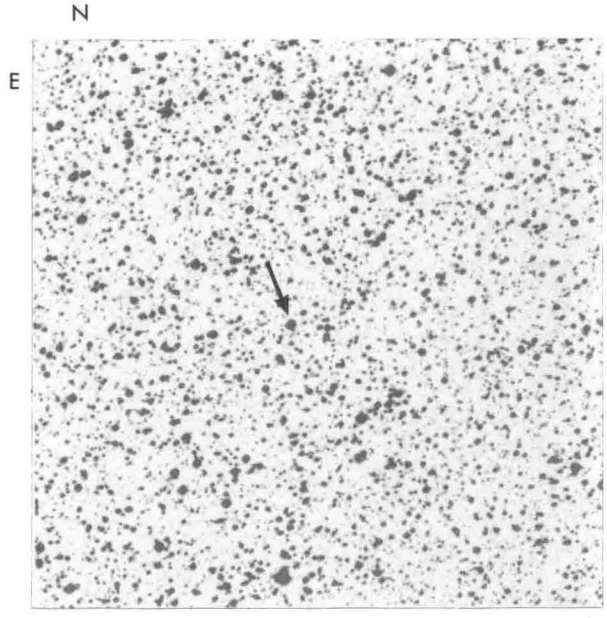
025.9-10.9 Na 2 POS E 331



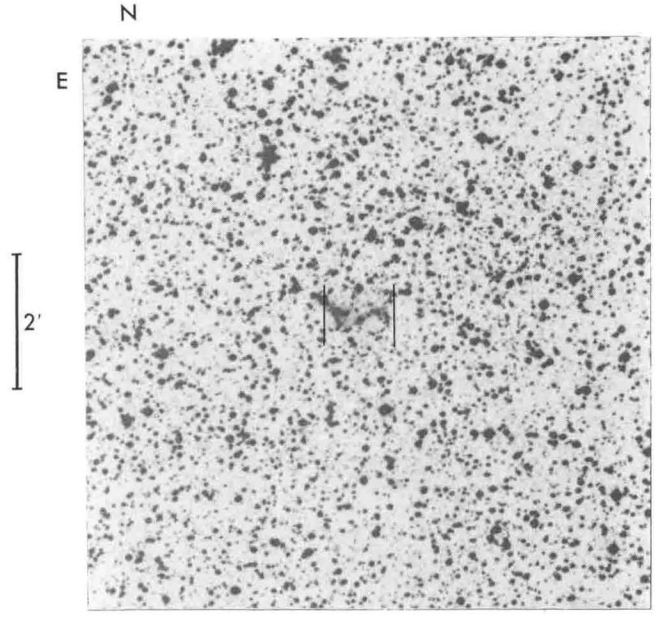
026.0-01.8 Pe 2-15 SRC J 807



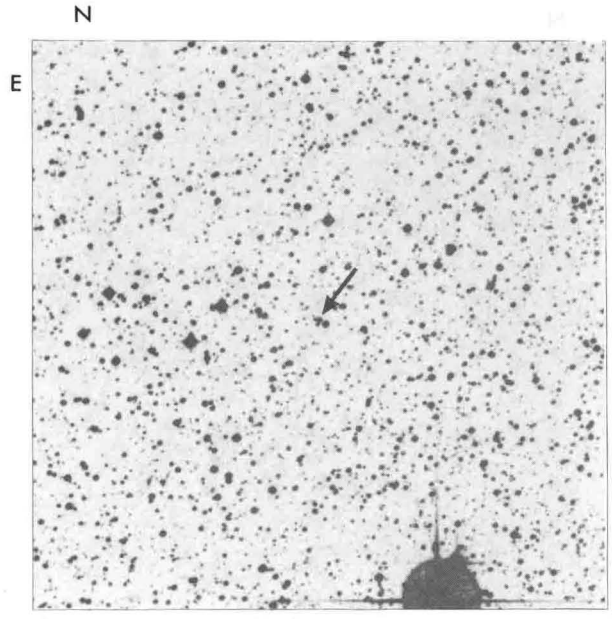
026.3-02.2 Pe 1-16 SRC J 807



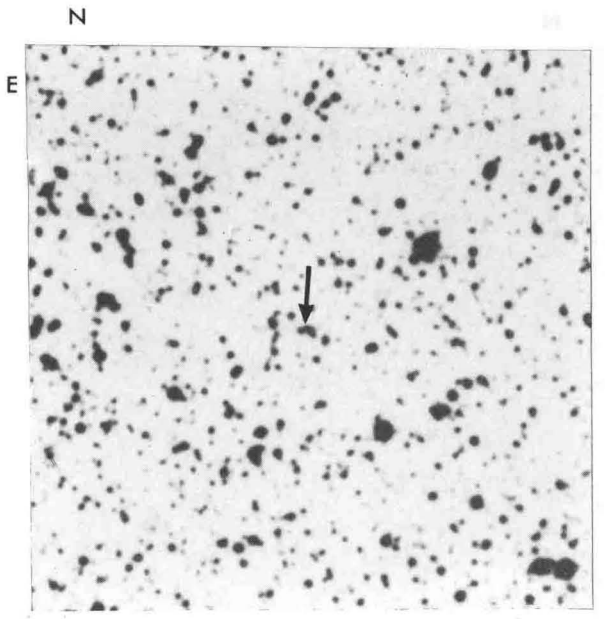
026.5-03.0 Pe 1-19 SRC J 803



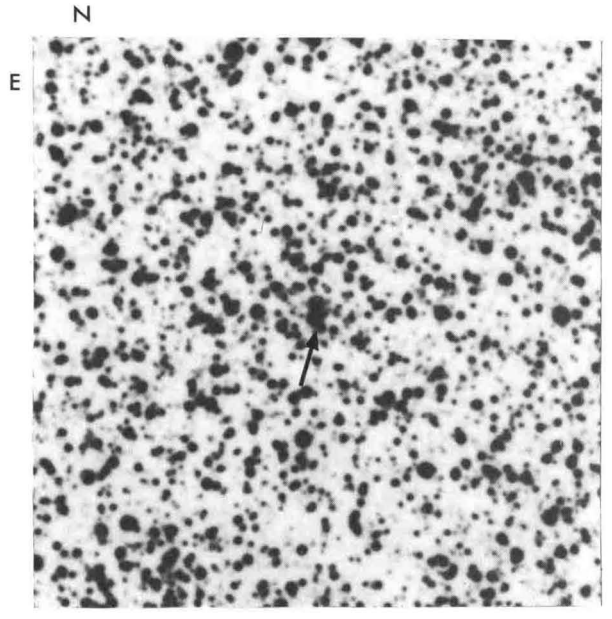
026.6-01.5 K 4- 5 SRC J 807



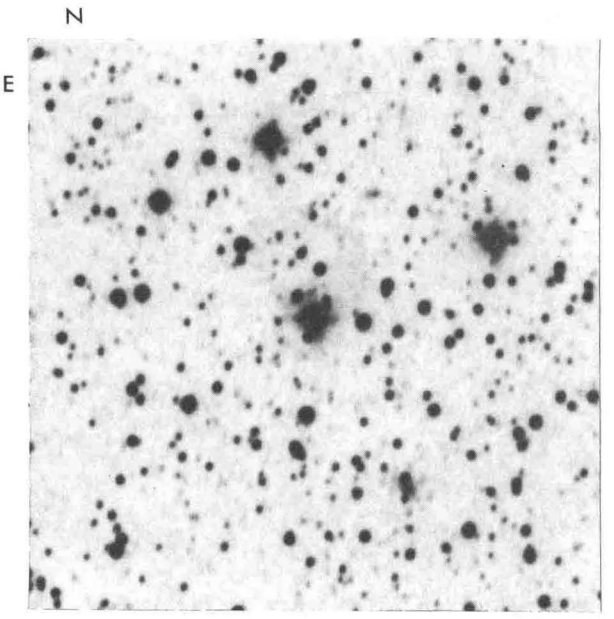
027.3-02.1 Pe 1-18 SRC J 807



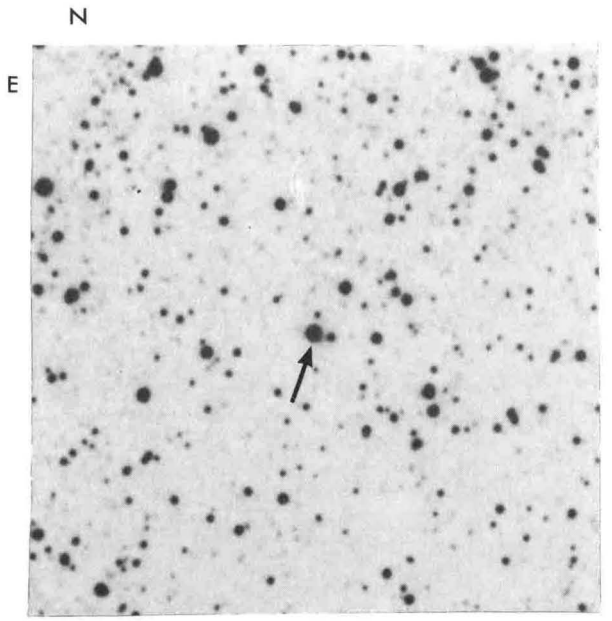
027.3-03.4 A 49 POS O1085



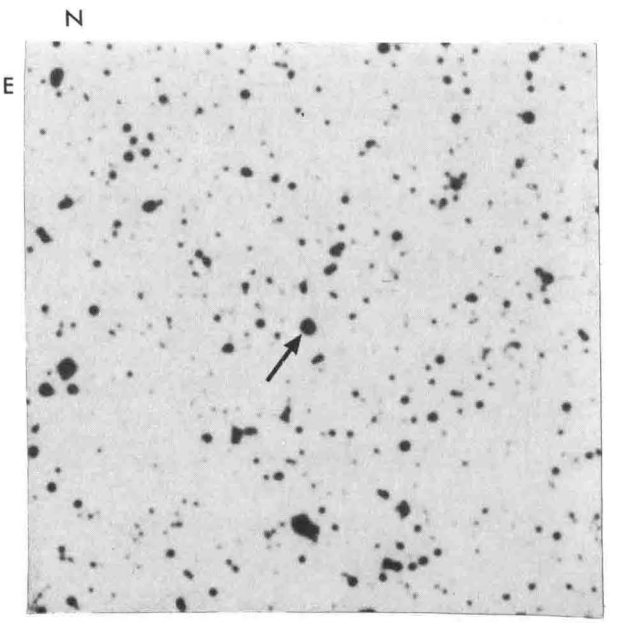
027.4-03.5 Vy 1- 4 POS O1085



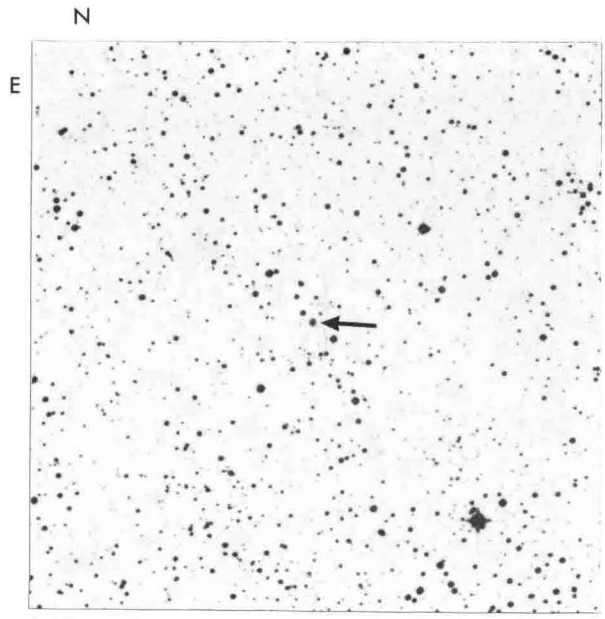
027.6+16.9 DeHt 2 POS E 780



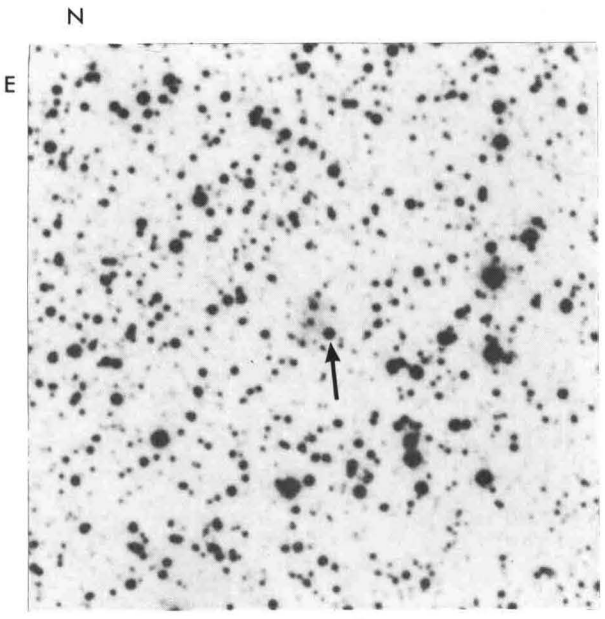
027.6+04.2 M 2-43 POS E1084



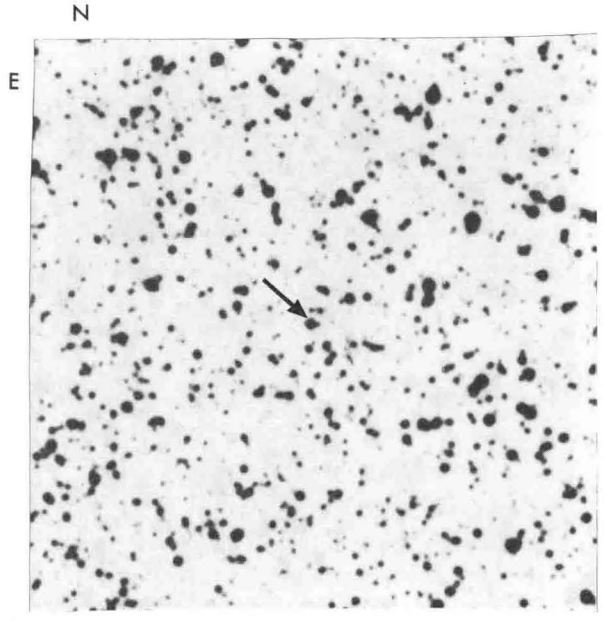
027.6-09.6 IC 4846 POS E 331



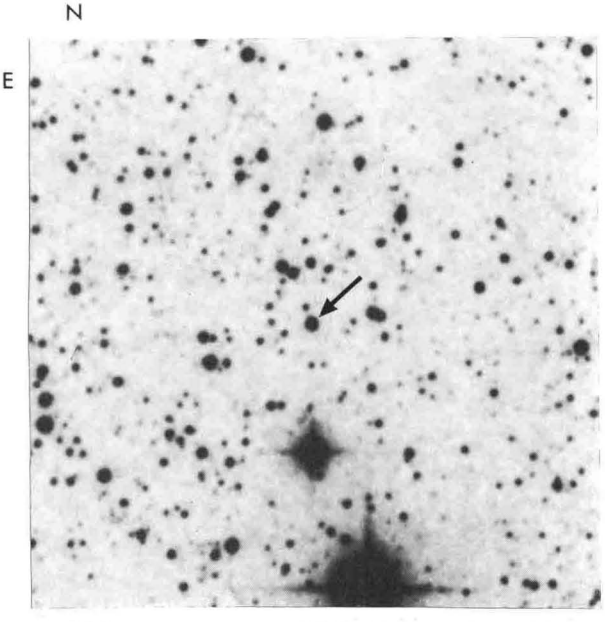
027.7+00.7 M 2-45 SRC J 807



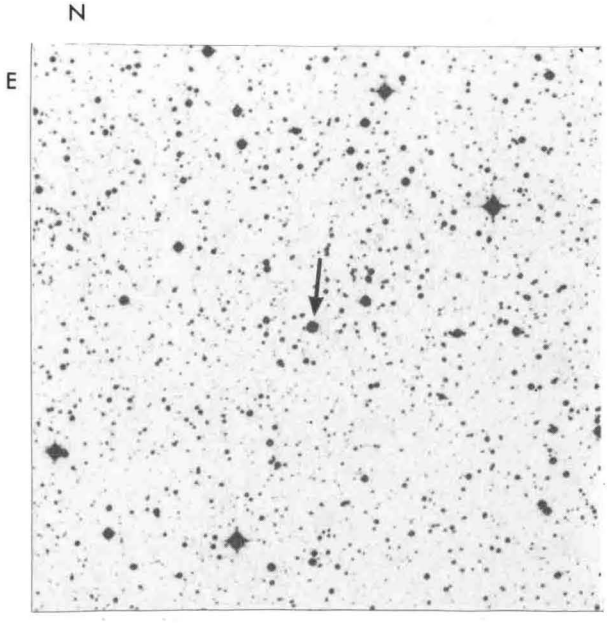
028.0+10.2 WeSb 3 POS E 773



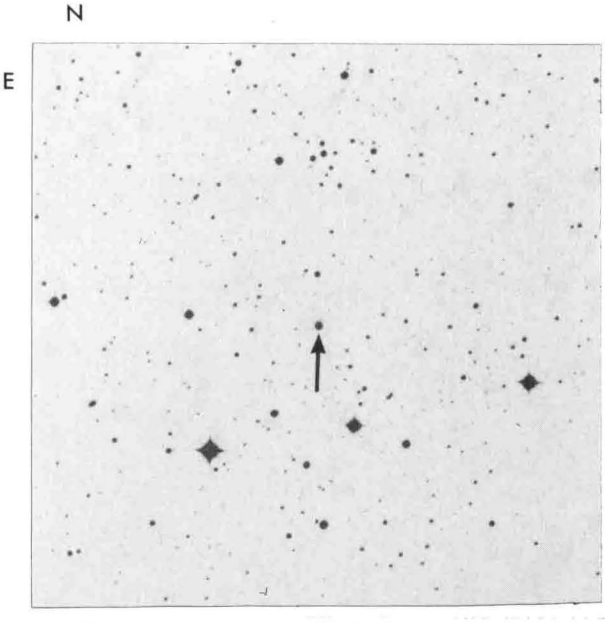
028.2-04.0 Pe 1-20 POS O1085



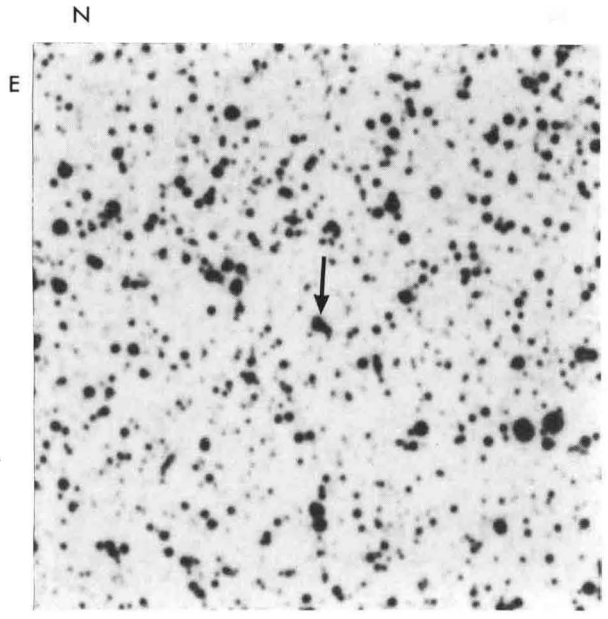
028.5+05.1 K 3- 2 POS E1084



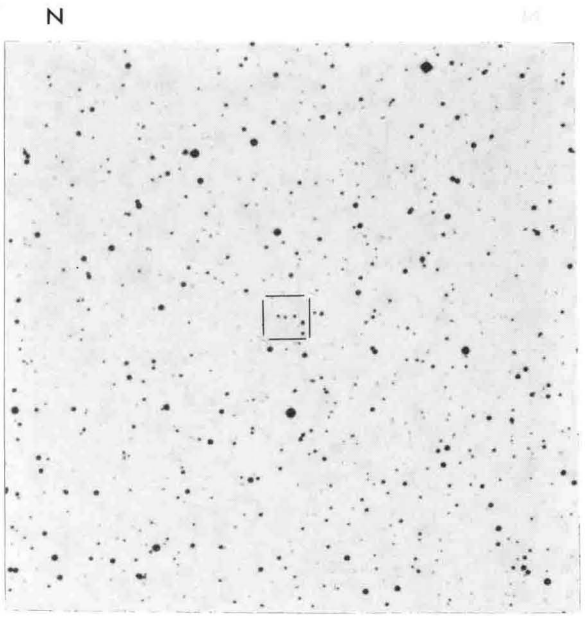
028.5+01.6 M 2-44 SRC J 807



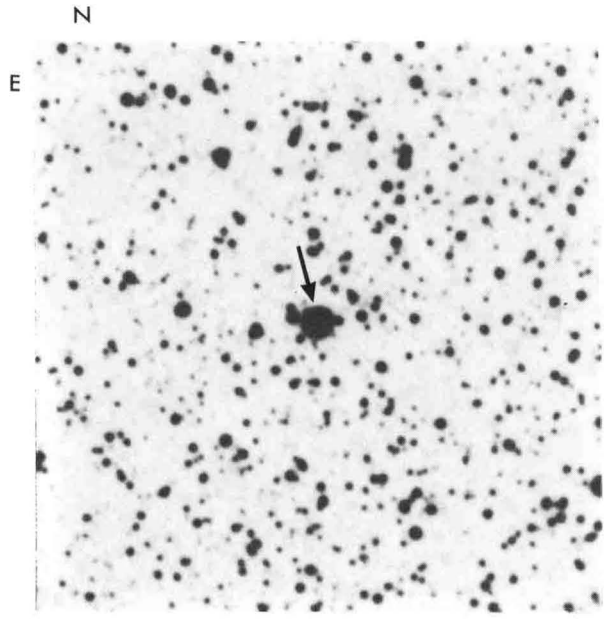
028.7+02.7 K 3- 7 SRC J 807



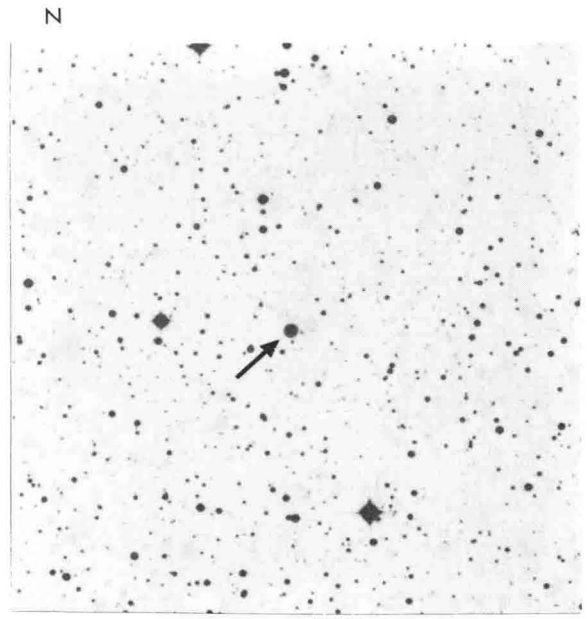
028.7-03.9 Pe 1-21 POS O1085



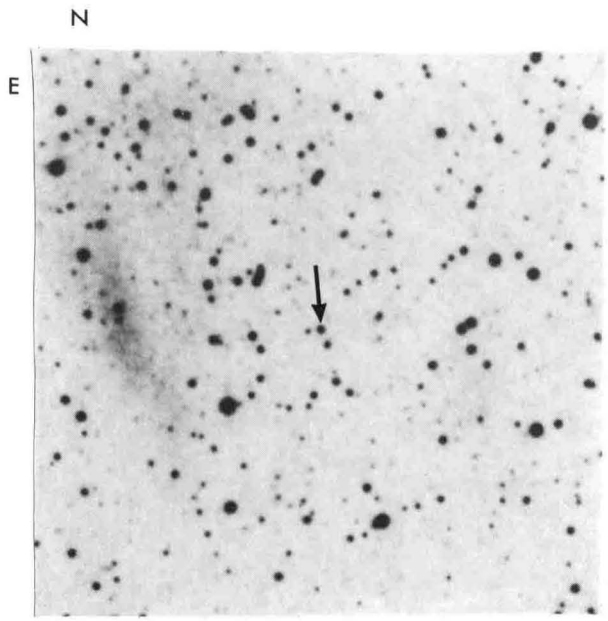
029.0+00.4 A 48 SRC J 807



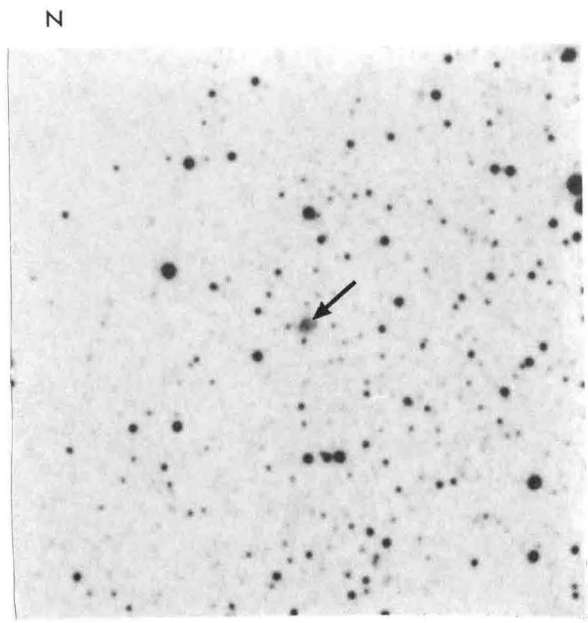
029.2-05.9 NGC 6751 POS O1085



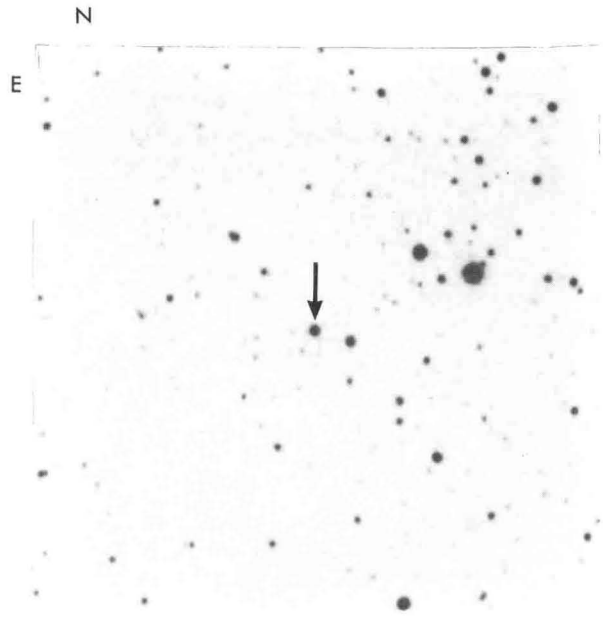
029.8-07.8 LSA 1 SRC J 809



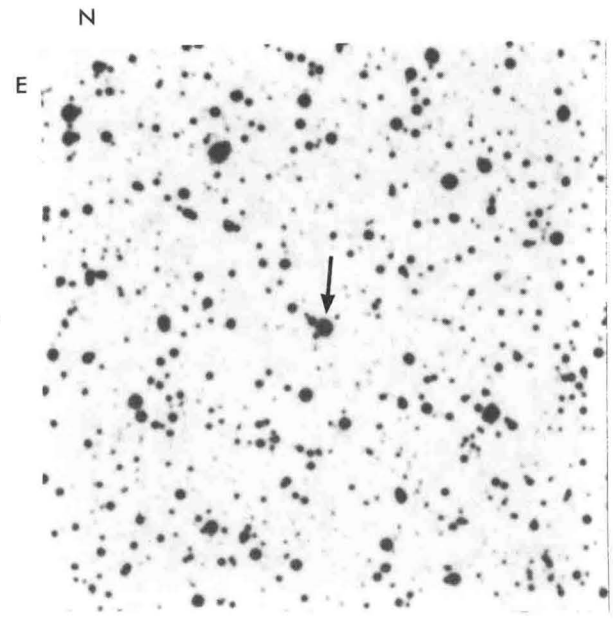
030.6+06.2 Sh 2- 68 POS E1084



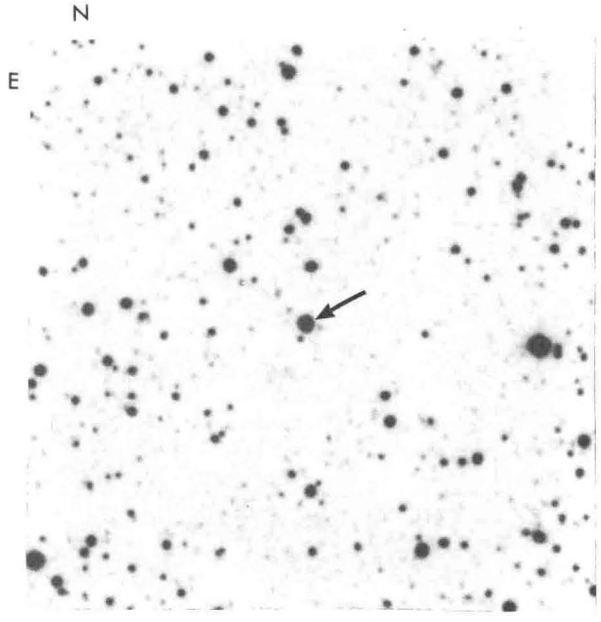
030.8+03.4 A 47 POS E1084



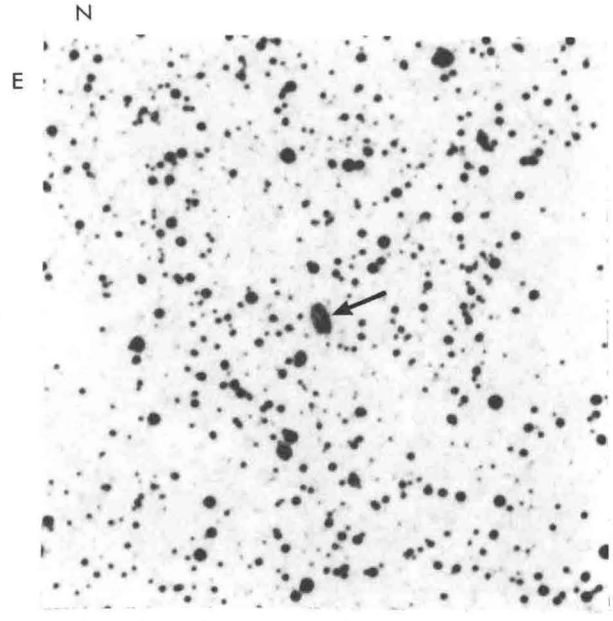
031.0+04.1 K 3- 6 POS E1084



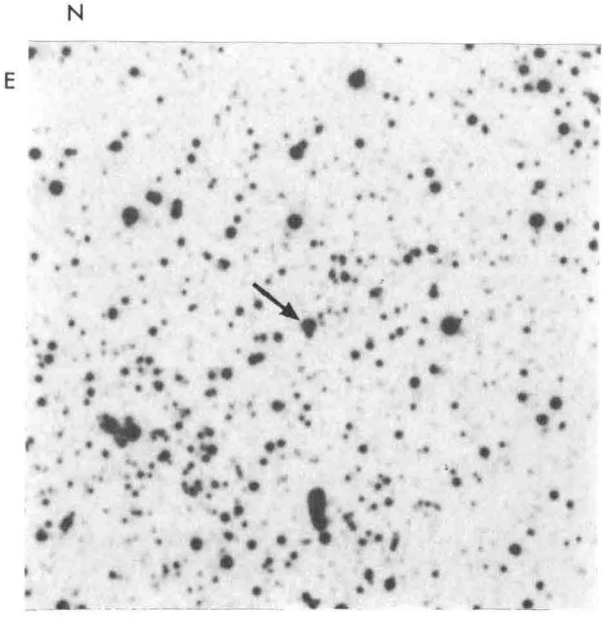
031.0-10.8 M 3-34 POS E 327



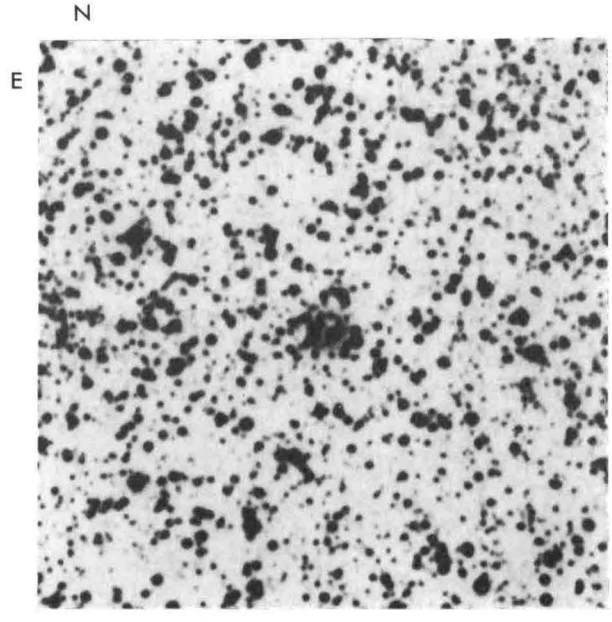
031.2+05.9 K 3- 3 POS E1084



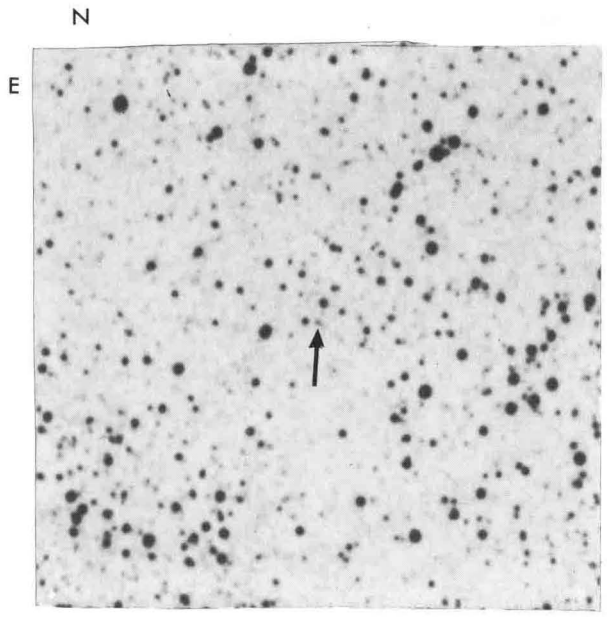
031.3 - 00.5 HaTr 10 POS O 193



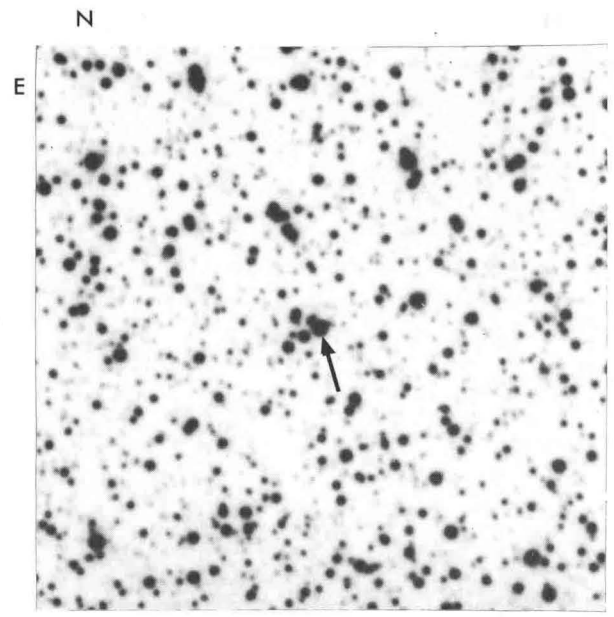
031.7+01.7 PC 20 POS E1084



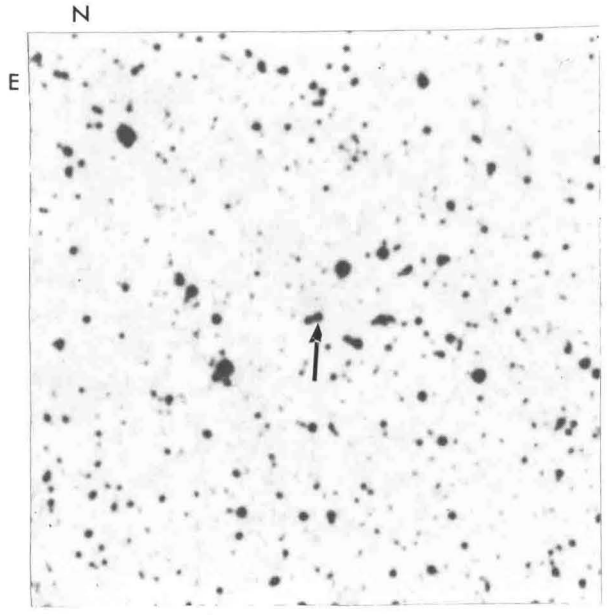
031.9 - 00.3 WeSb 4 POS O 193



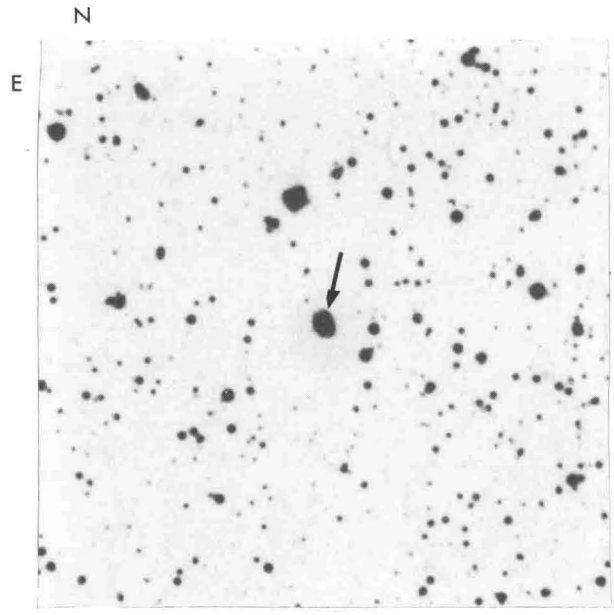
032.0-03.0 K 3-18 POS O 193



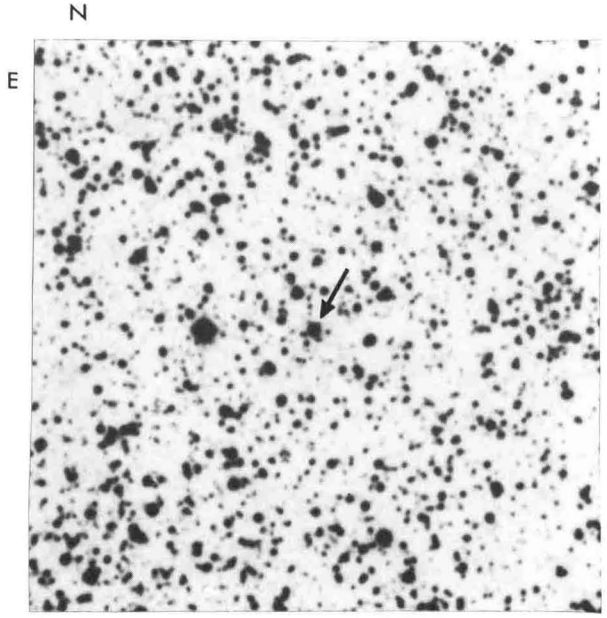
032.1+07.0 PC 19 POS E1084



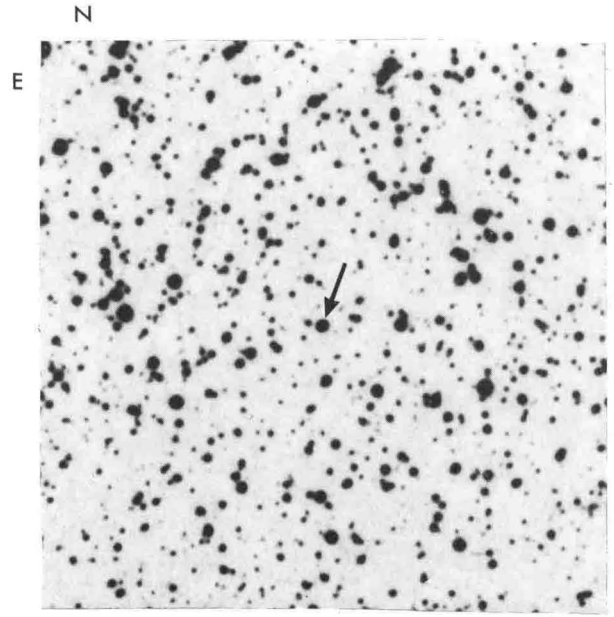
032.5-03.2 K 3-20 POS O 193



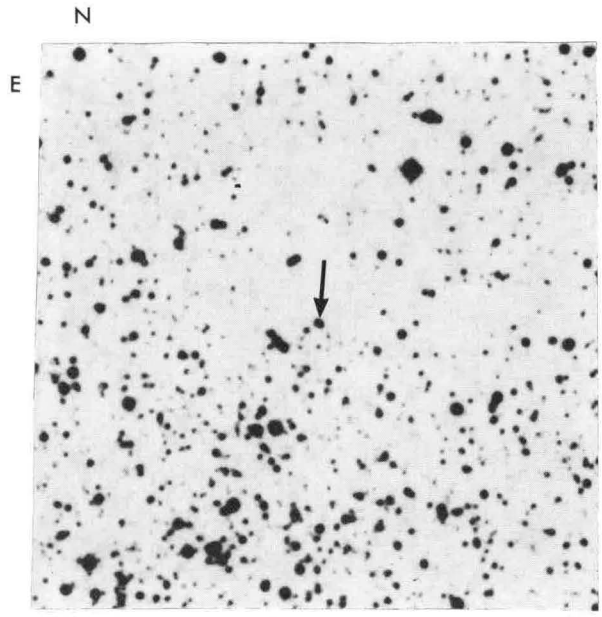
032.7+05.6 K 3- 4 POS E1084



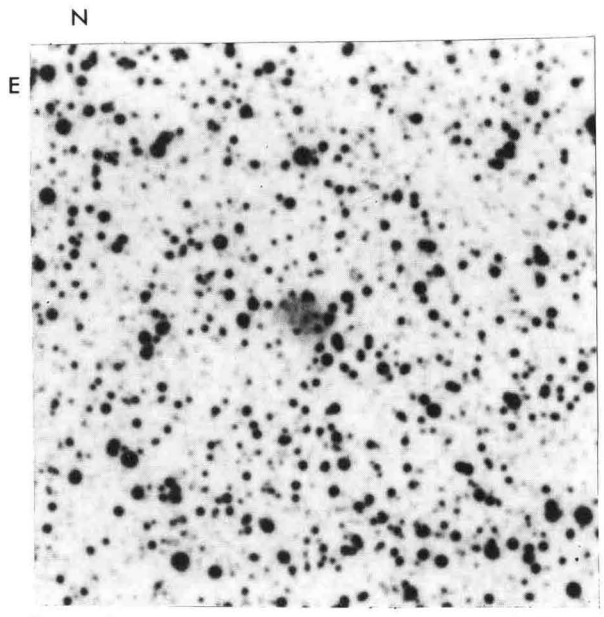
032.7-02.0 M 1-66 POS O 193



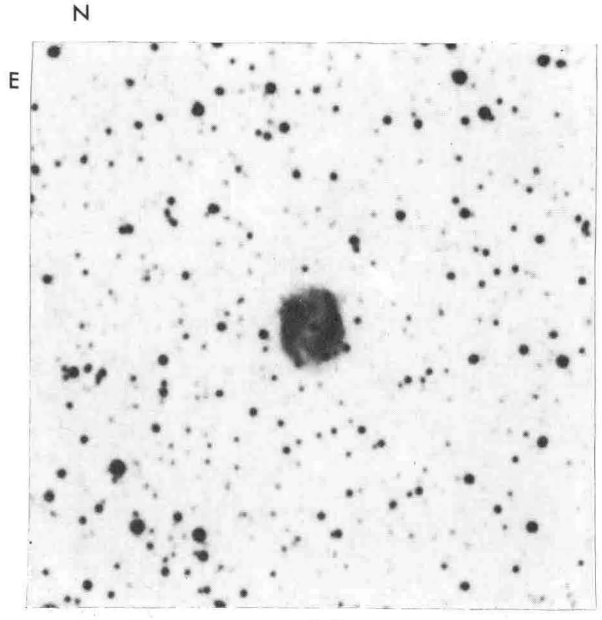
032.9+07.8 K 3- 1 POS E 166



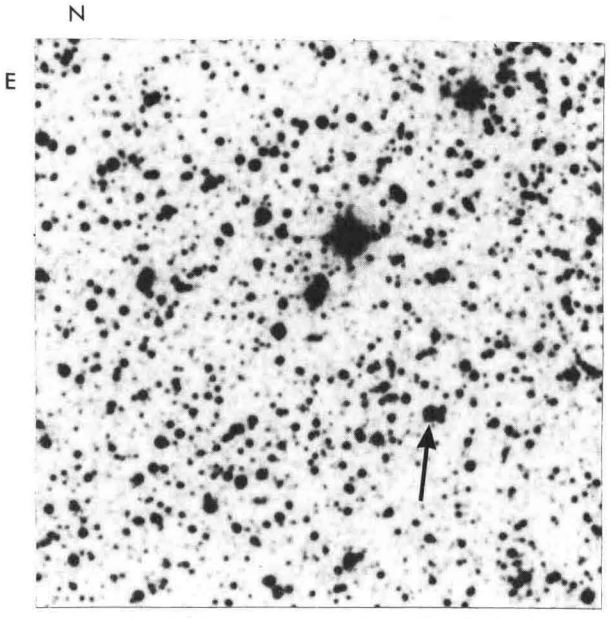
032.9-02.8 K 3-19 POS O 193



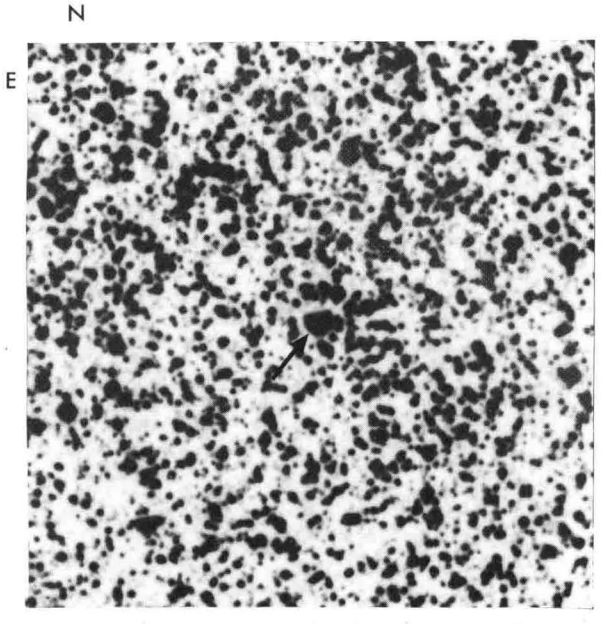
033.0-05.3 A 55 POS O 323



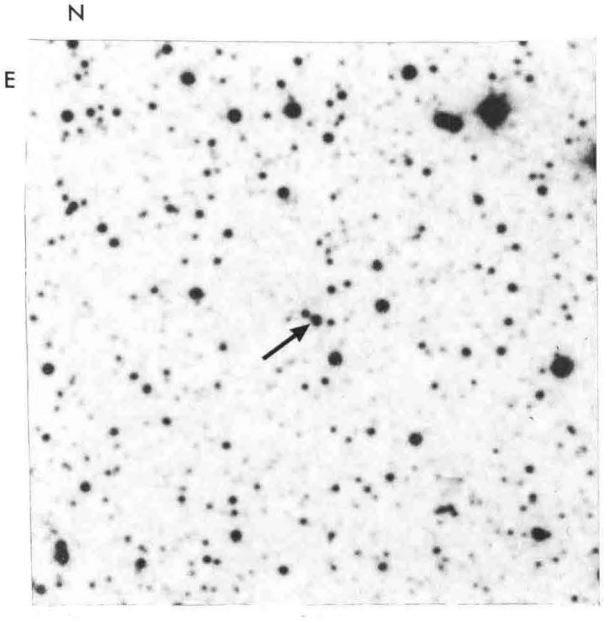
033.1-06.3 NGC 6772 POS O 323



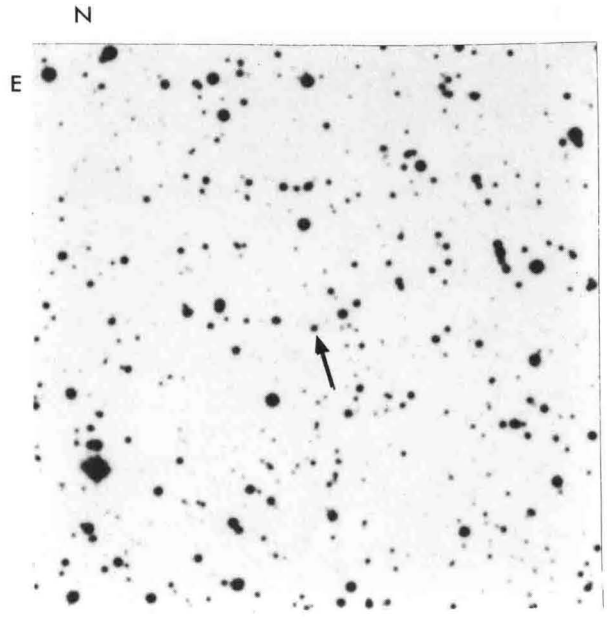
033.2-01.9 Sa 3-151 POS O 193



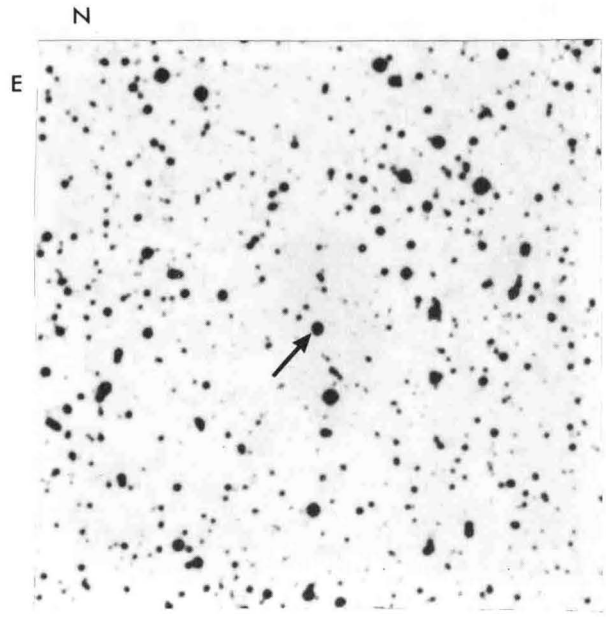
033.8-02.6 NGC 6741 POS O 193



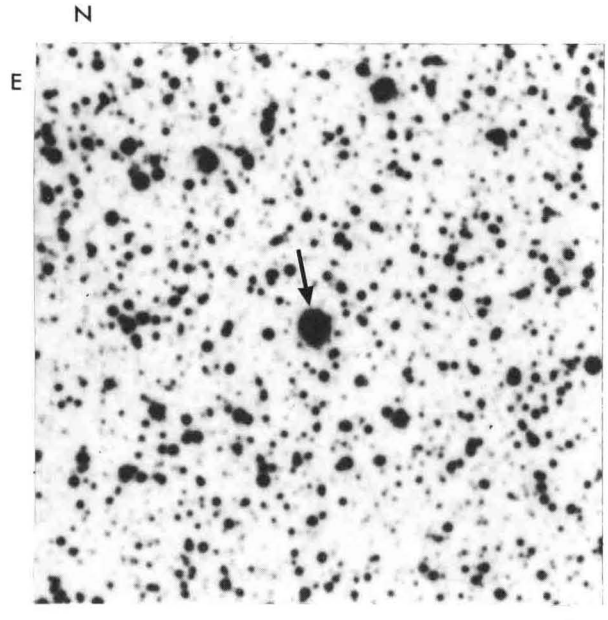
034.0+02.2 K 3-13 POS E 193



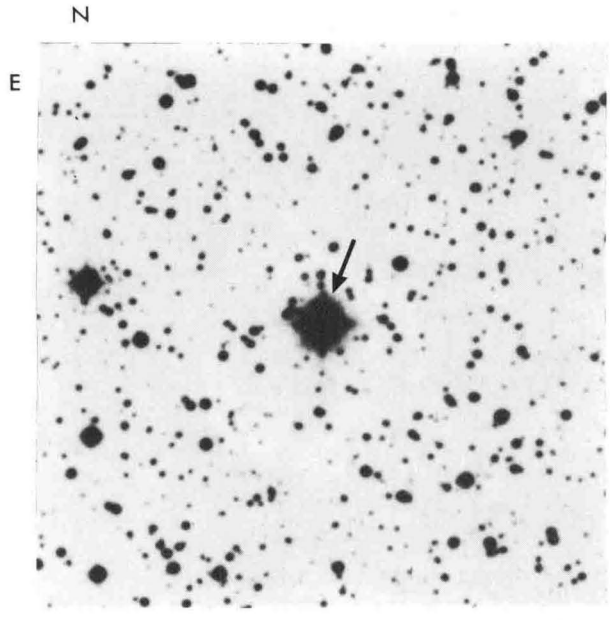
034.1-10.5 HDW 11 POS E 327



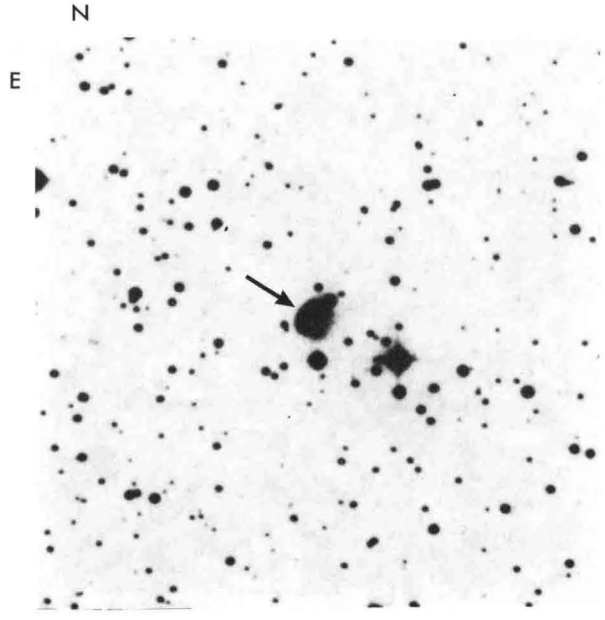
034.3+06.2 K 3- 5 POS E 166



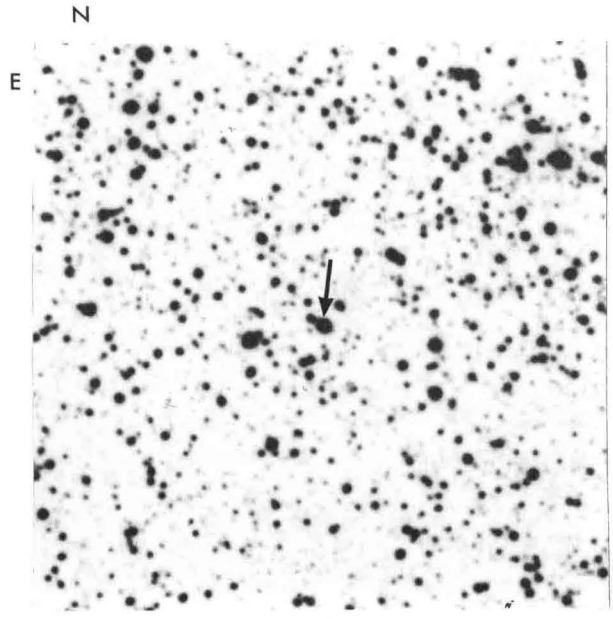
034.5-06.7 NGC 6778 POS O 323



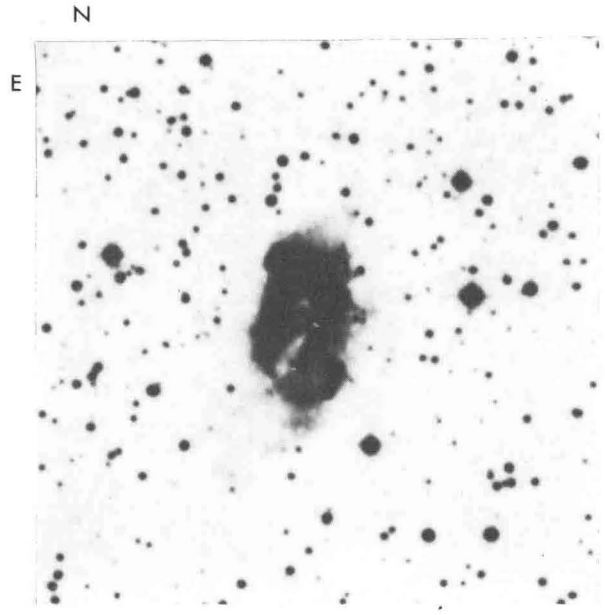
034.6+11.8 NGC 6572 POS E 164



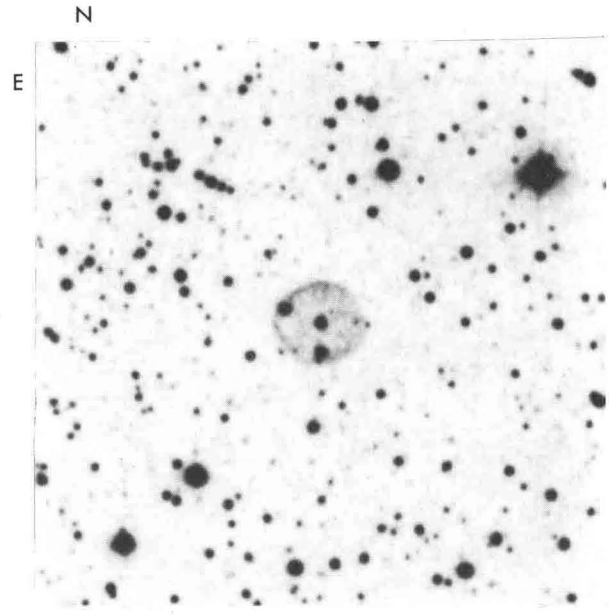
035.1 - 00.7 Ap 2- 1 POS E 193



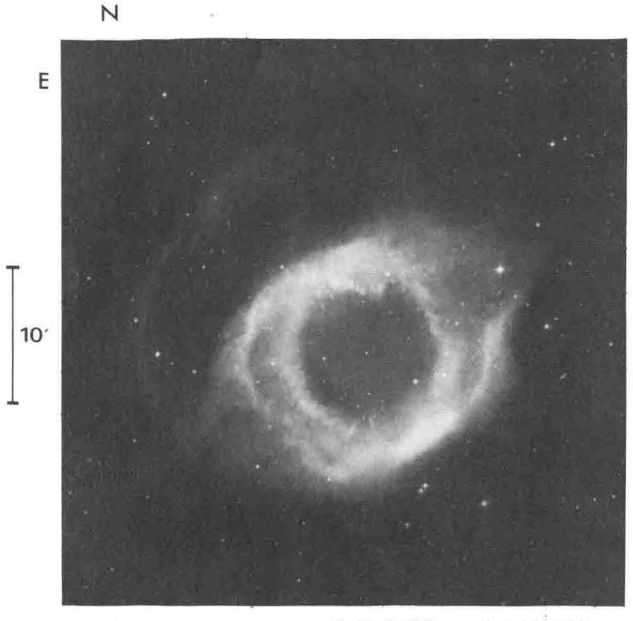
035.7-05.0 K 3-26 POS O 323



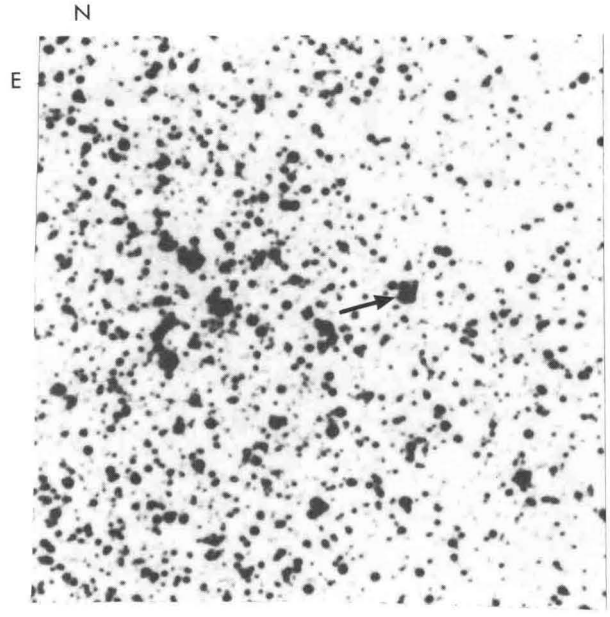
035.9-01.1 Sh 2- 71 POS E 193



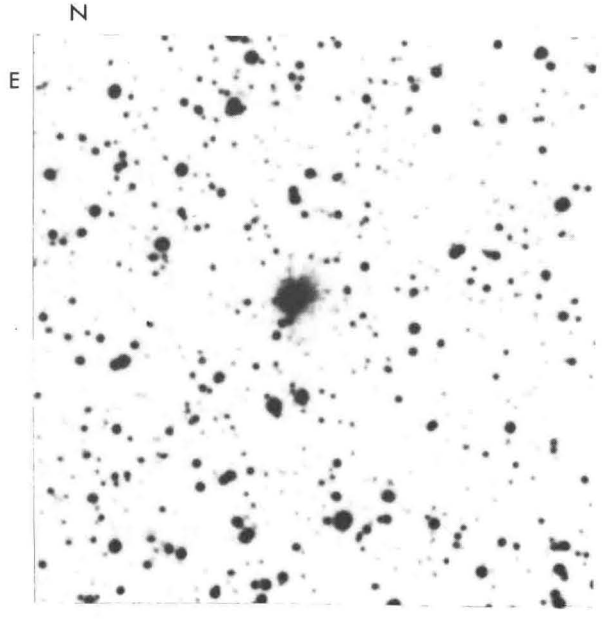
036.0+17.6 A 43 POS E1580



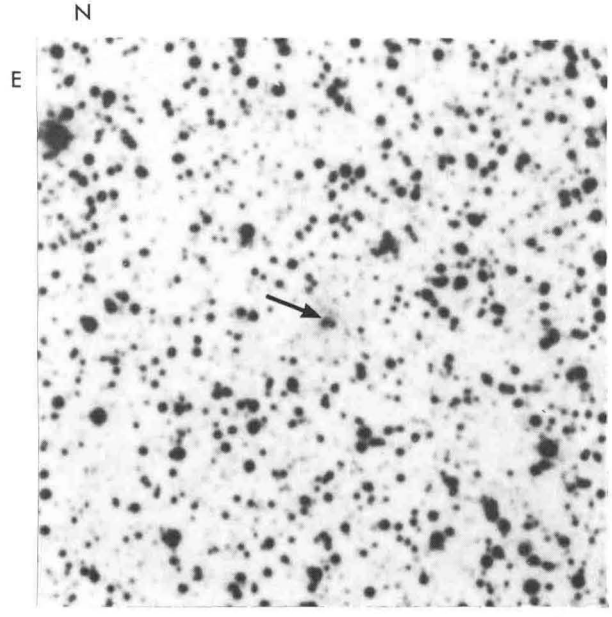
036.1-57.1 NGC 7293 ESO B 602



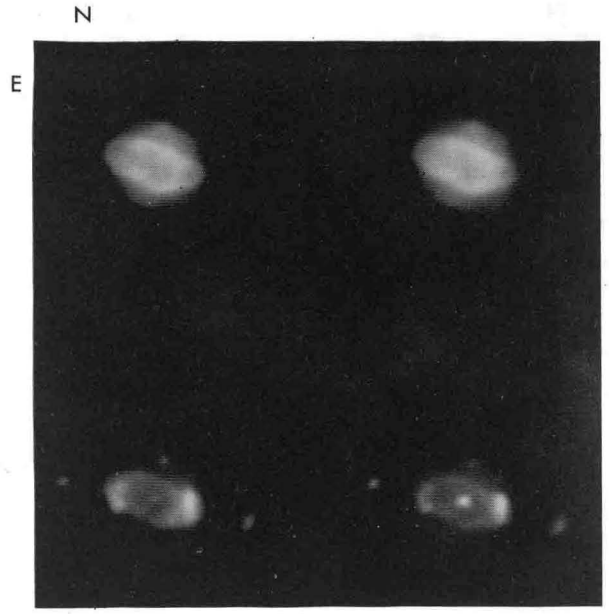
036.9-01.1 HaTr 11 POS E 193



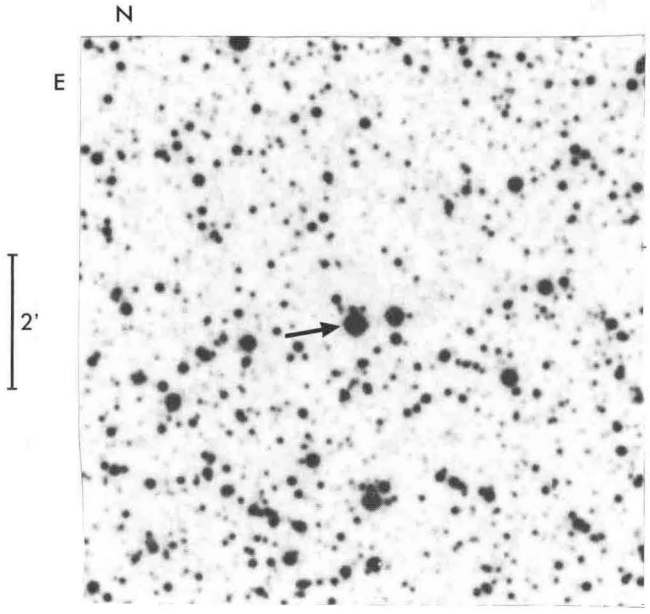
036.9-02.6 HaTr 13 POS O 323



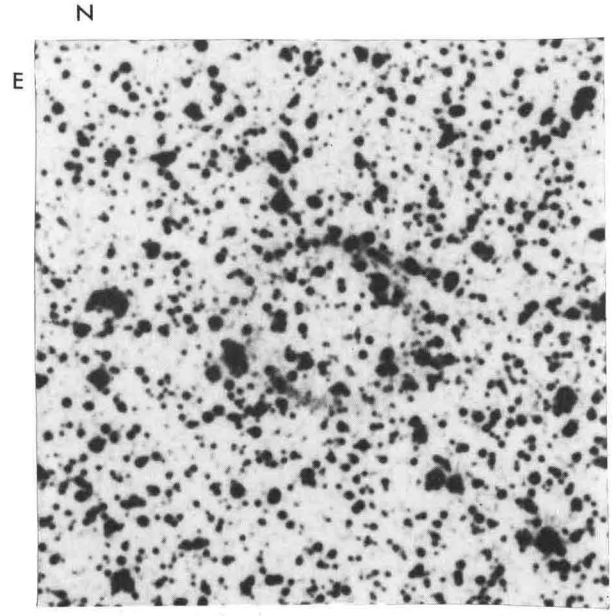
037.5-05.1 A 58 POS O 323



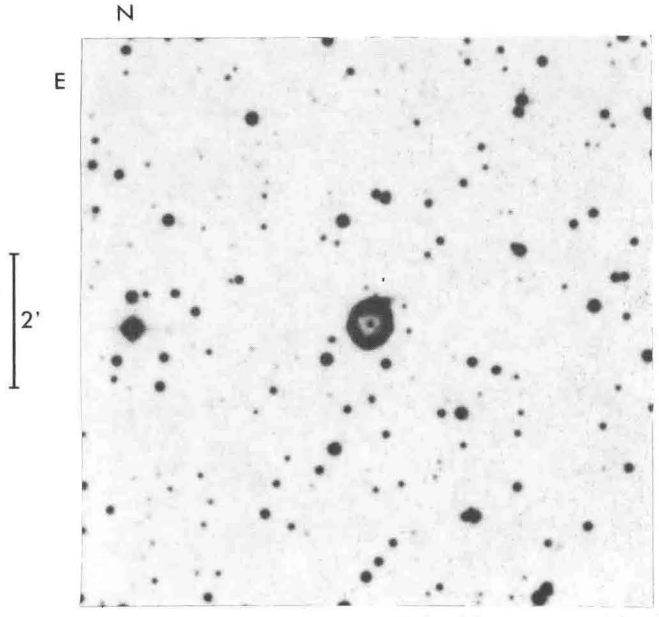
037.7-34.5 NGC 7009 BALICK 87



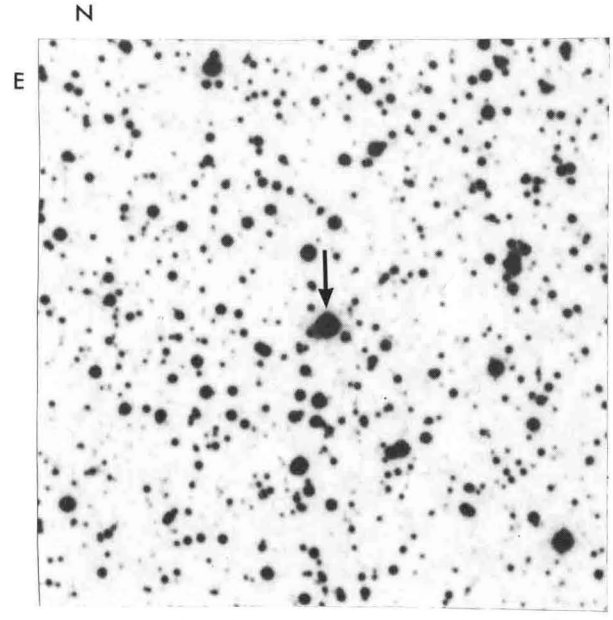
037.8-06.3 NGC 6790 POS O 323



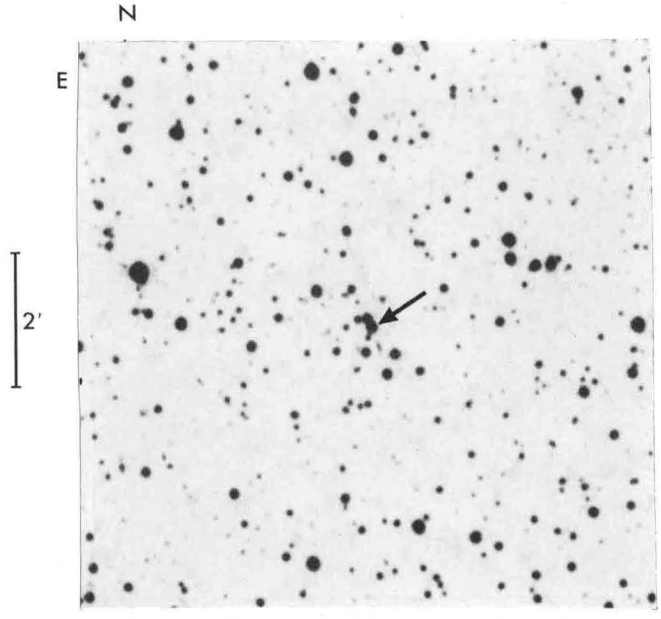
037.9-03.4 A 56 POS O 323



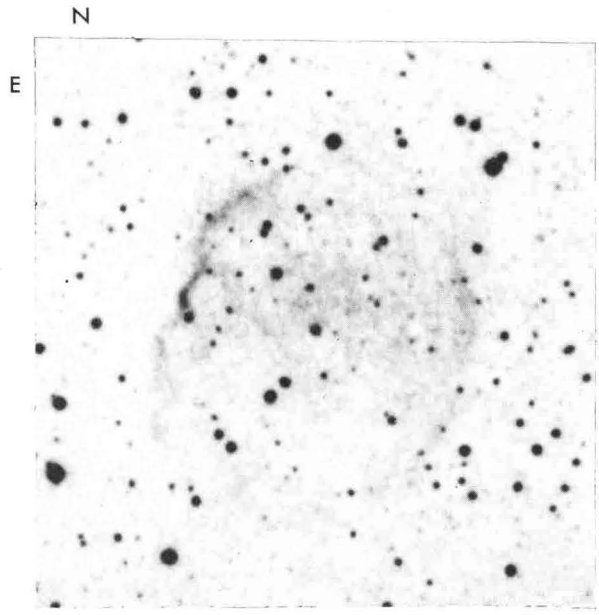
038.1-25.4 A 70 POS E 309



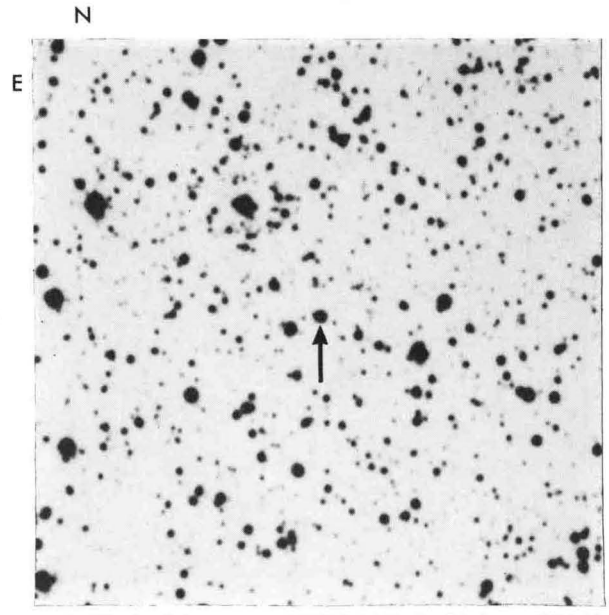
038.2+12.0 Cn 3-1 POS E 123



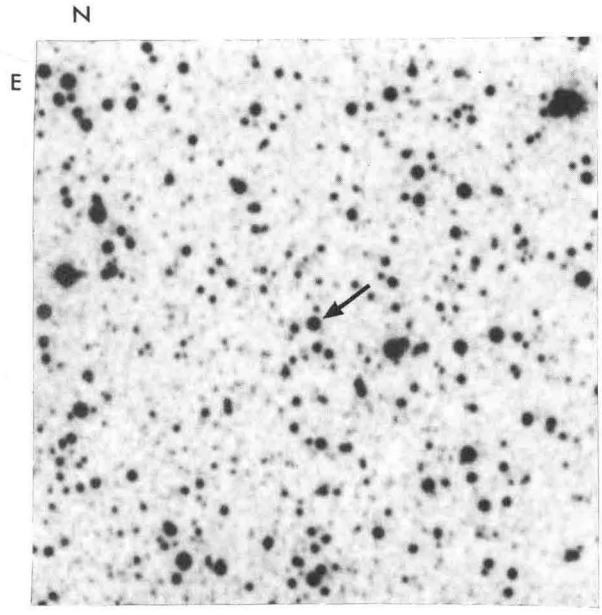
038.4-03.3 K 4-19 POS E 202



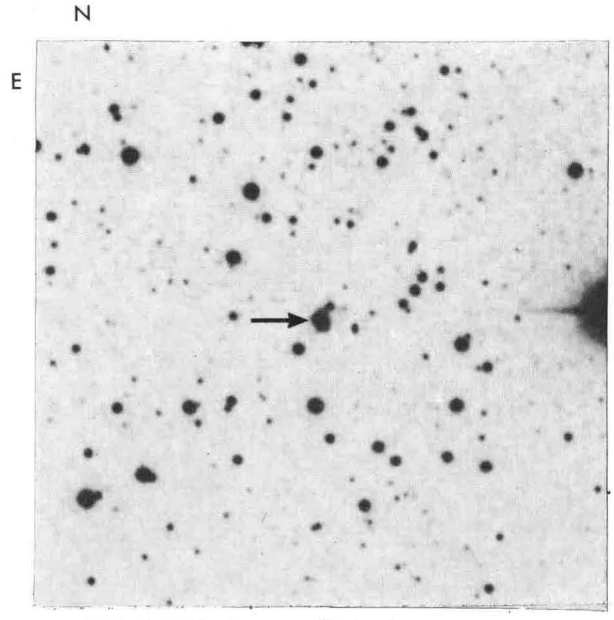
038.7+01.9 YM 16 POS E 264



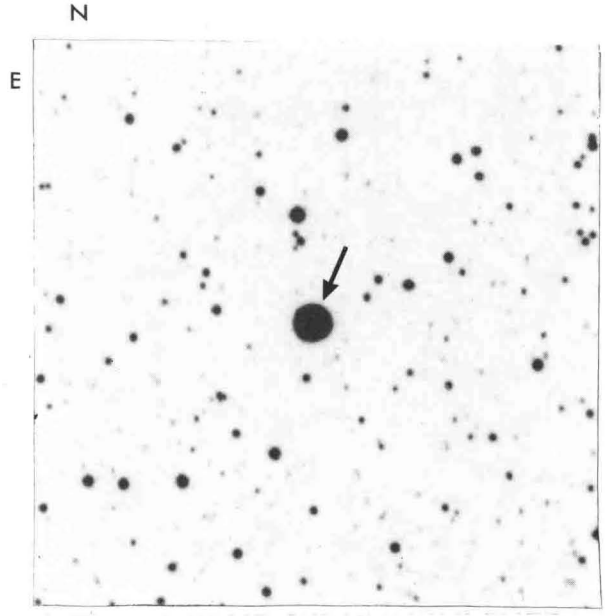
038.7-03.3 M 1-69 POS E 202



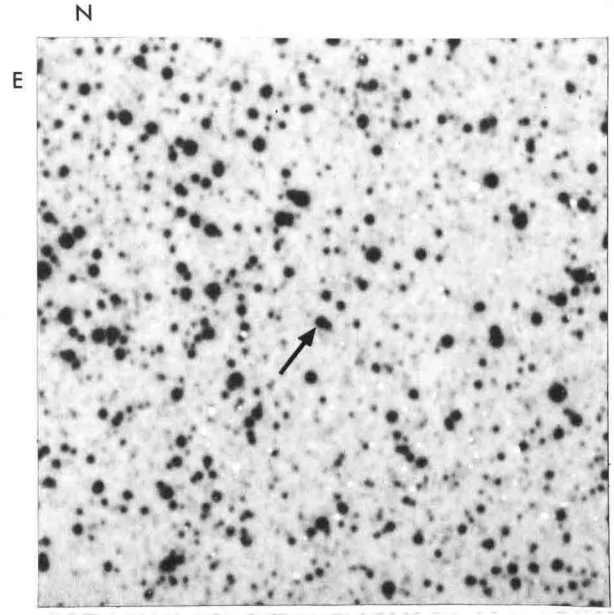
039.5-02.7 M 2-47 POS E 202



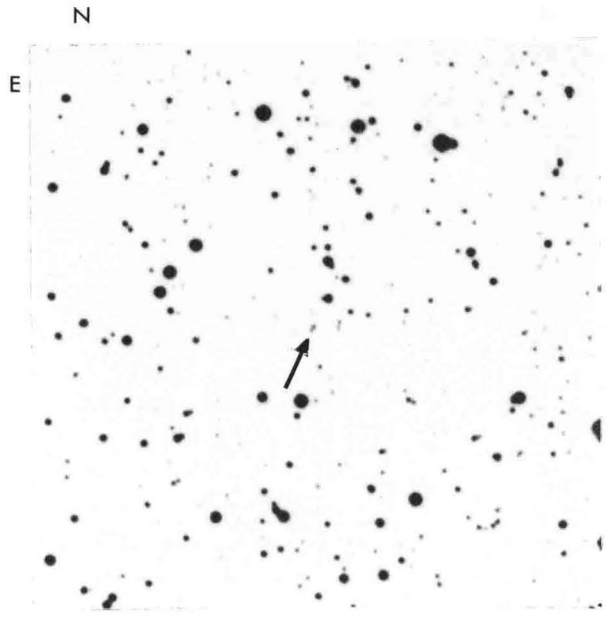
039.8+02.1 K 3-17 POS E 264



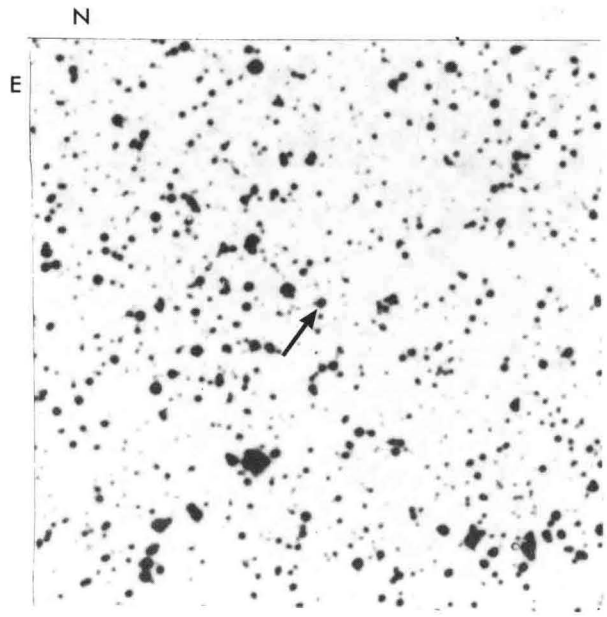
040.3—00.4 A 53 POS E 264



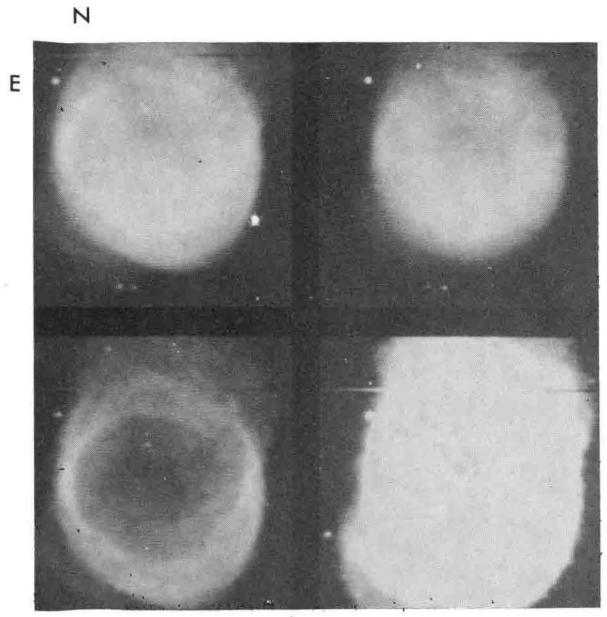
040.4-03.1 K 3-30 POS E 202



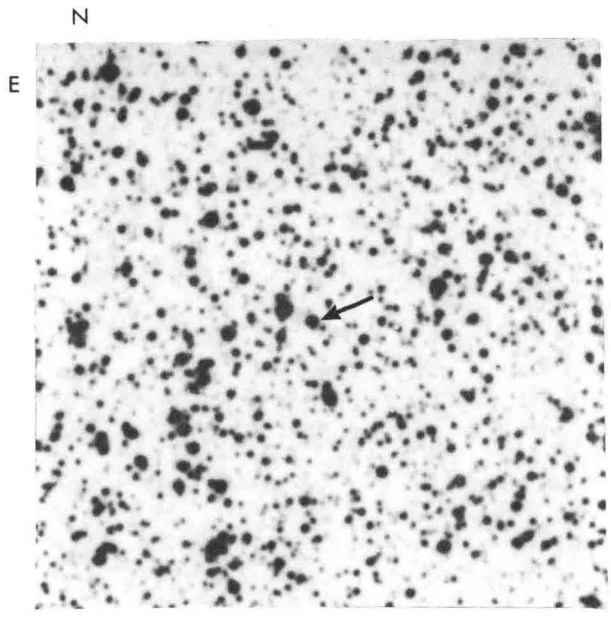
041.2−00.6 HaTr 4 POS E 202



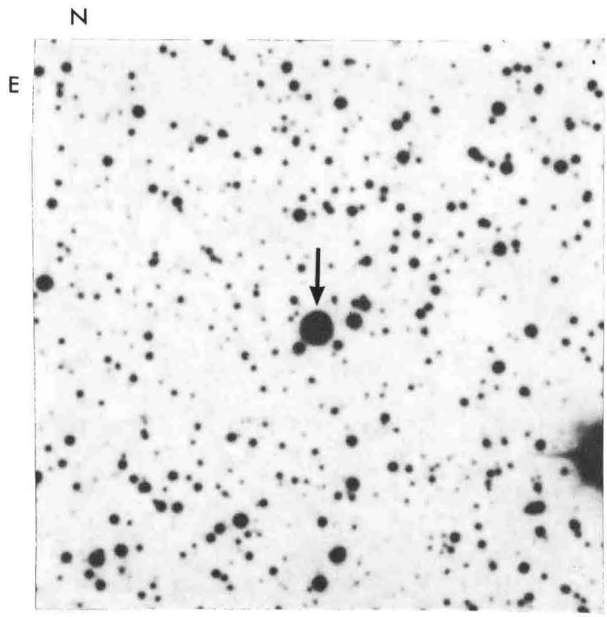
041.8+04.4 K 3-15 POS E 544



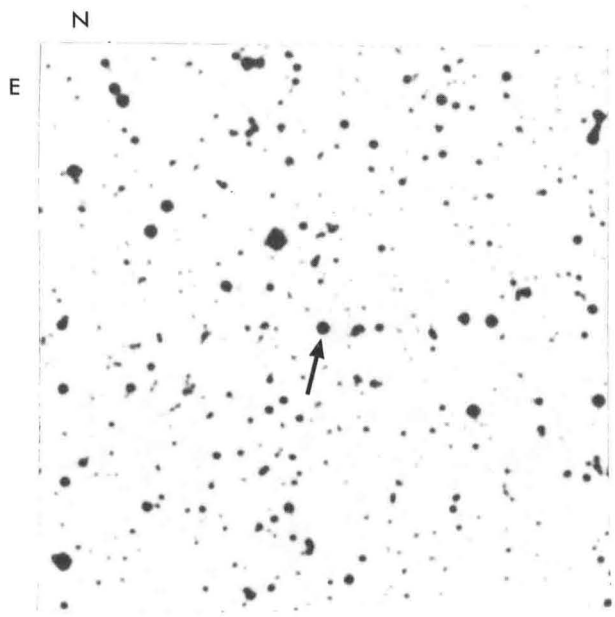
041.8-02.9 NGC 6781 BALICK 87



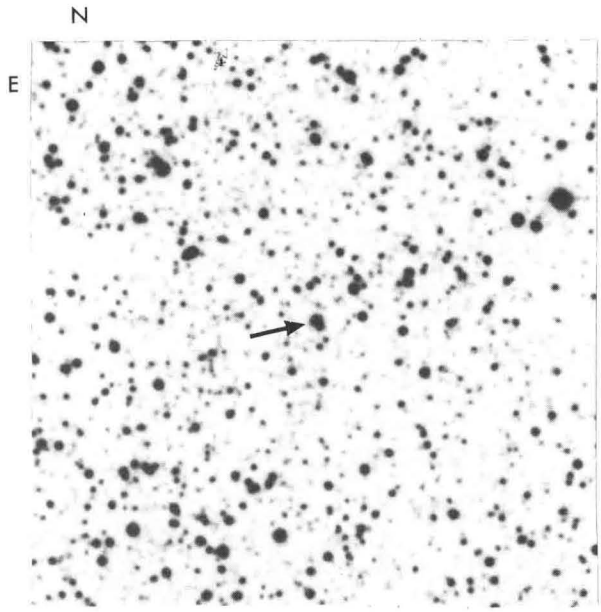
042.0+05.4 K 3-14 POS E 544



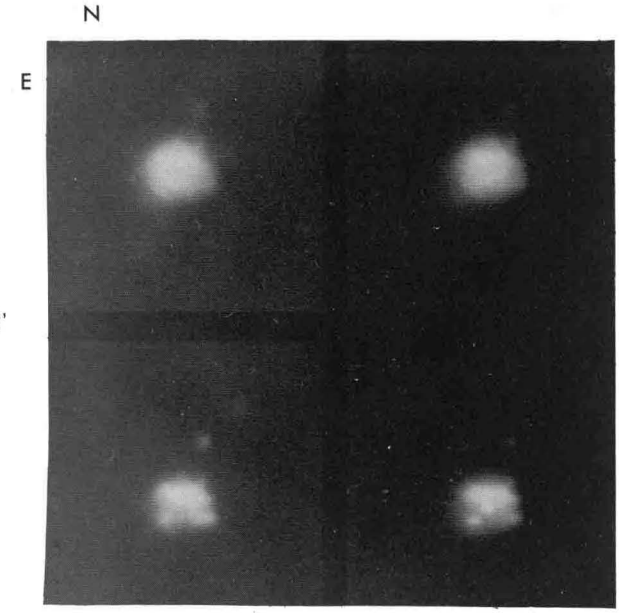
042.5-14.5 NGC 6852 POS E 297



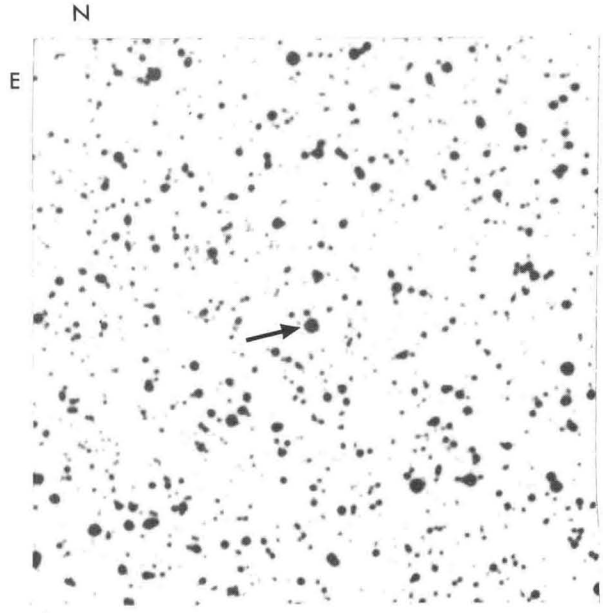
042.9-06.9 NGC 6807 POS O 171



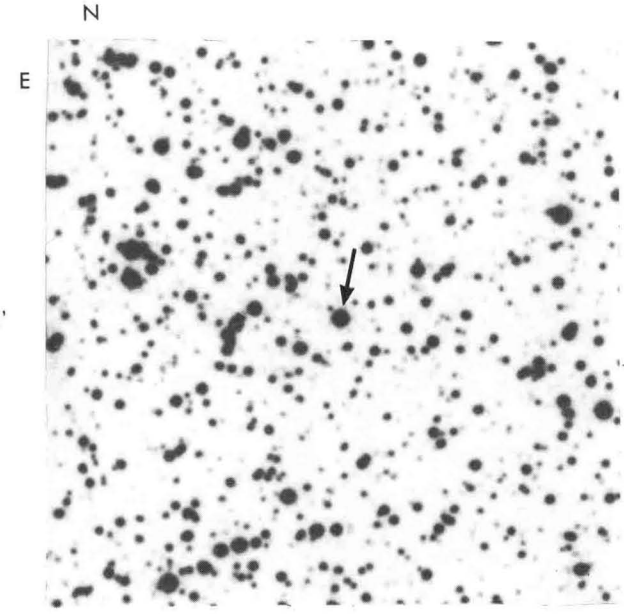
043.0-03.0 M 4-14 POS E 202



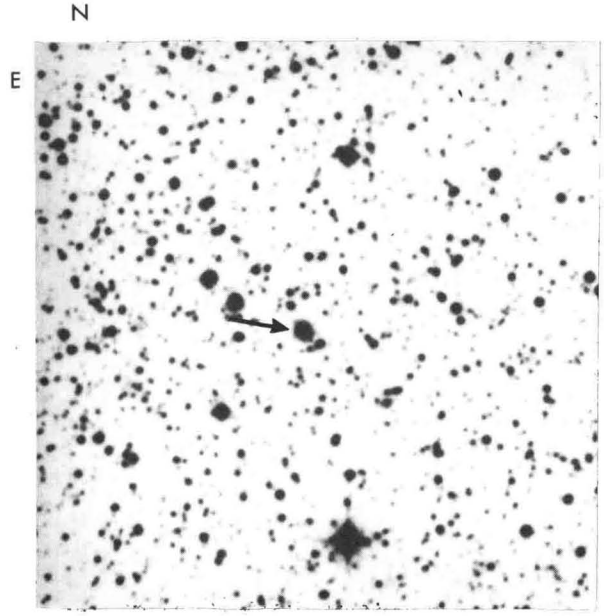
043.1+37.7 NGC 6210 BALICK 87



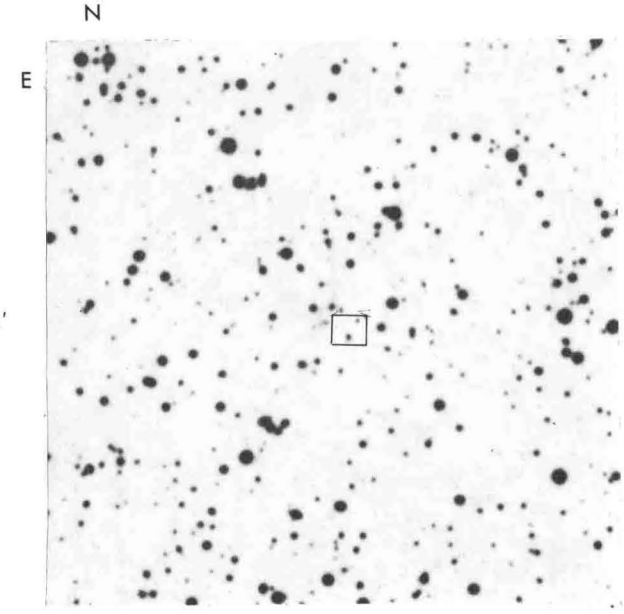
043.1+03.8 M 1-65 POS E 544



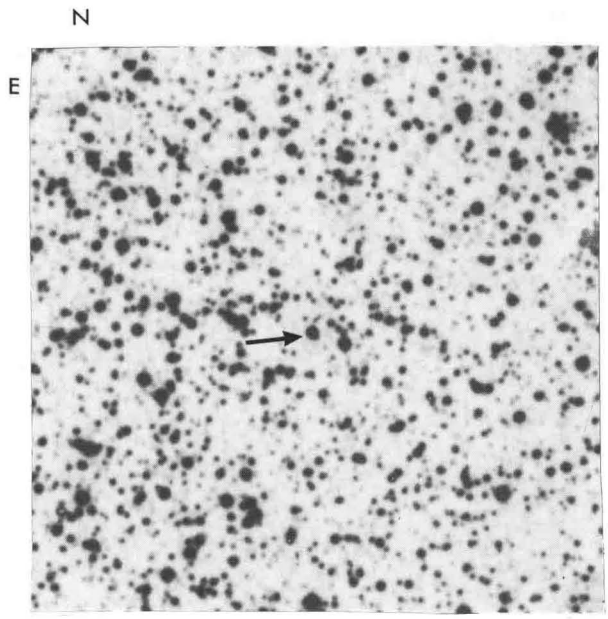
043.3+11.6 M 3-27 POS E 184



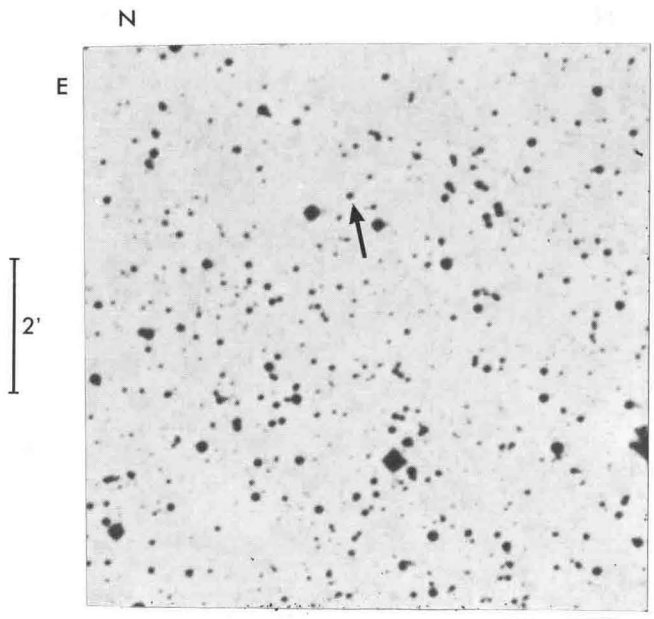
043.3+02.2 PM 1-276 POS O 544



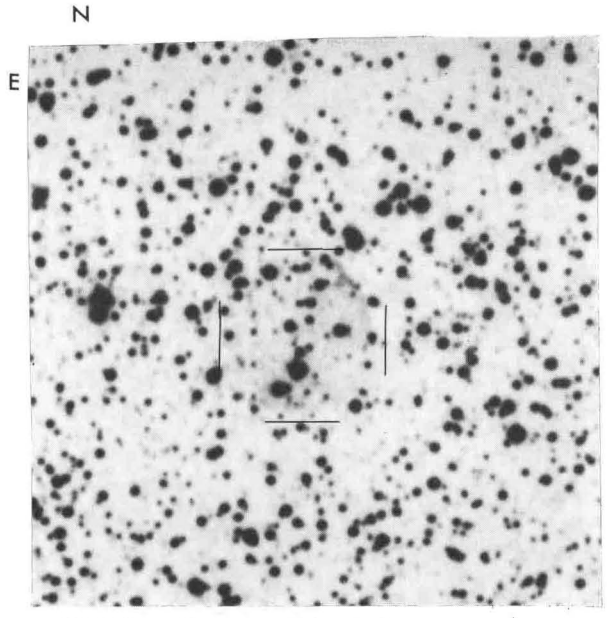
043.5-13.4 A 67 POS E 297



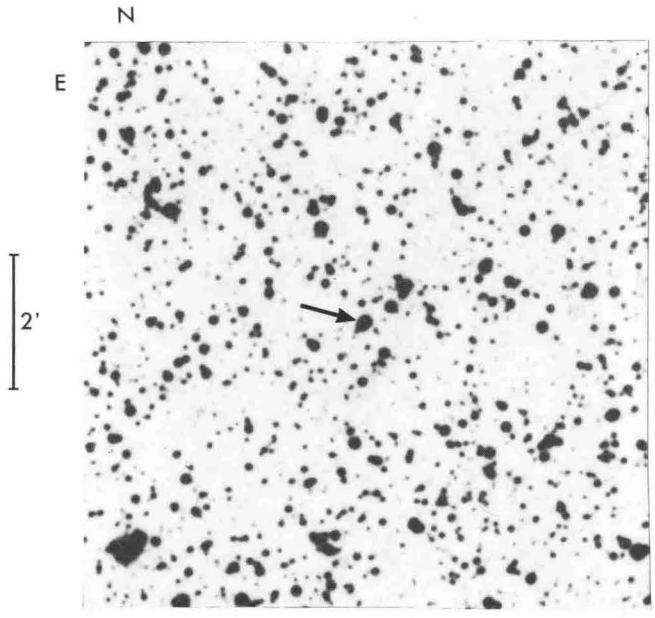
044.0+05.2 K 3-16 POS E 544



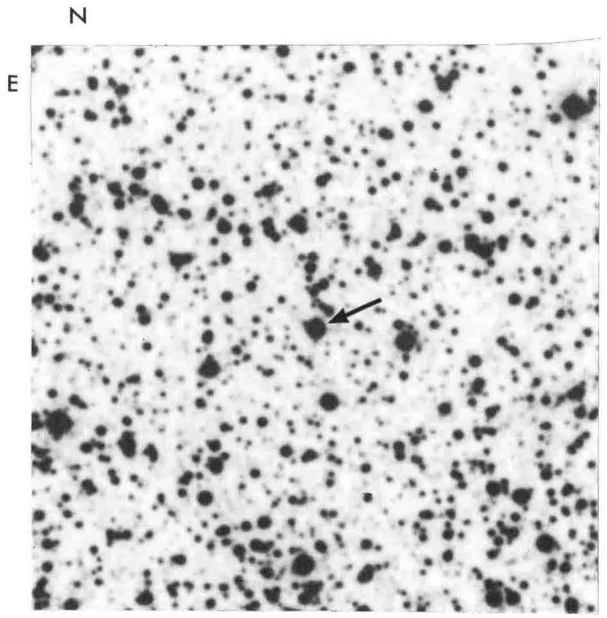
044.1+05.8 CTSS 2 POS O 544



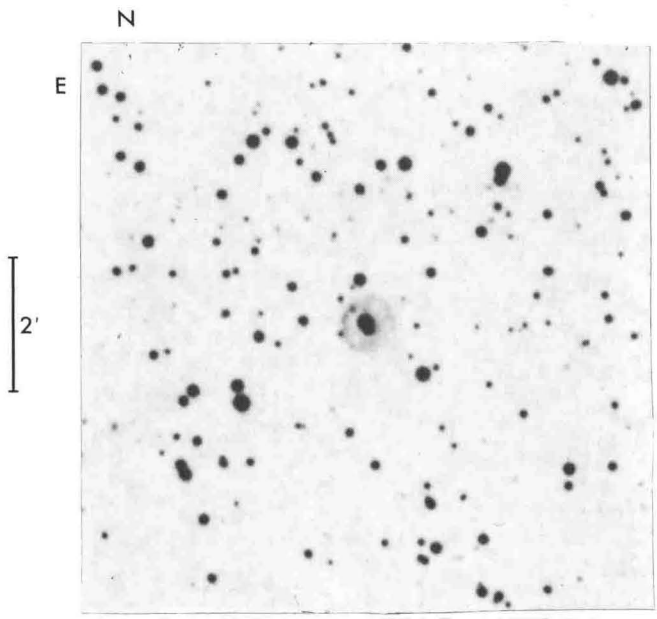
044.3+10.4 We 3- 1 POS E 184



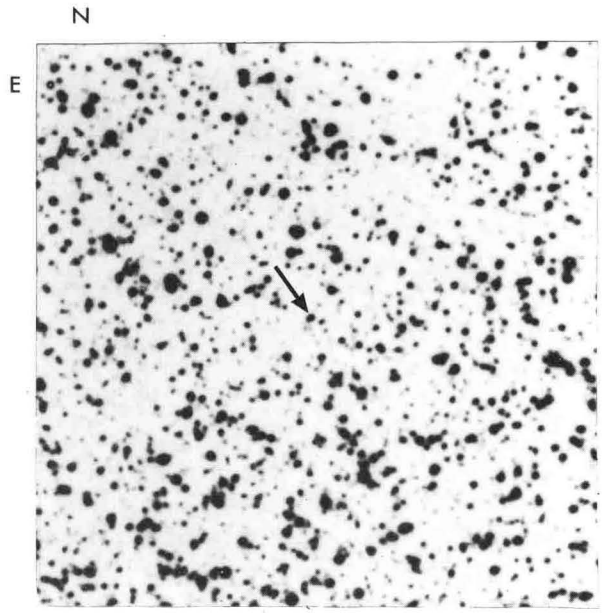
044.3-05.6 K 3-36 POS O 171



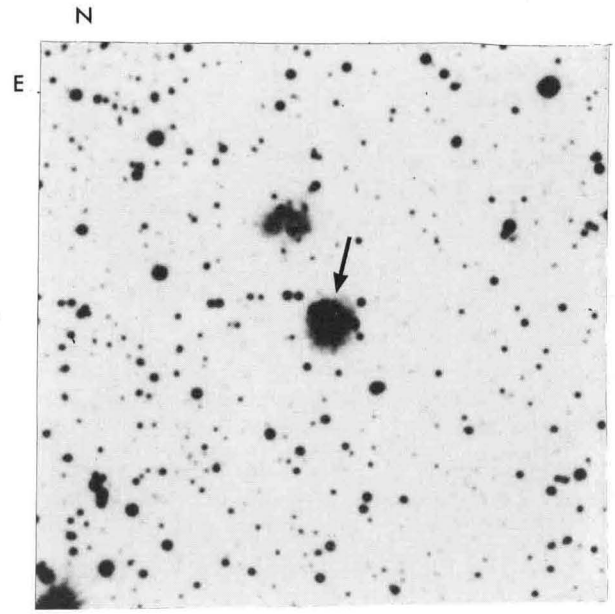
045.4-02.7 Vy 2- 2 POS E 506



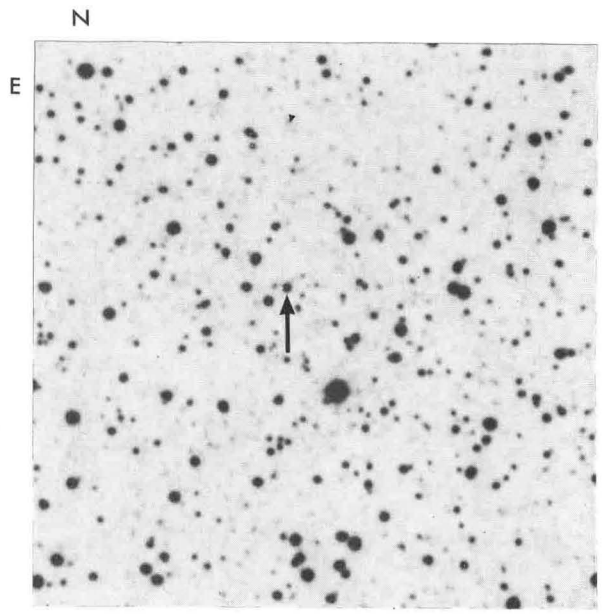
045.6+24.3 K 1-14 POS O 260



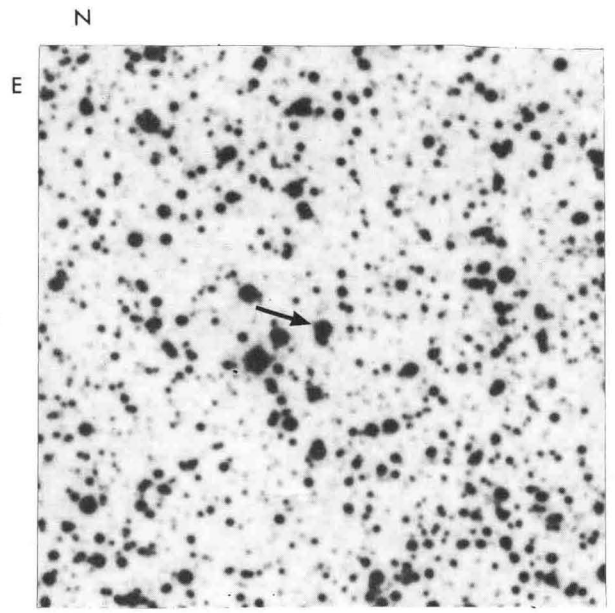
045.6+01.5 K 3-22 POS E 506



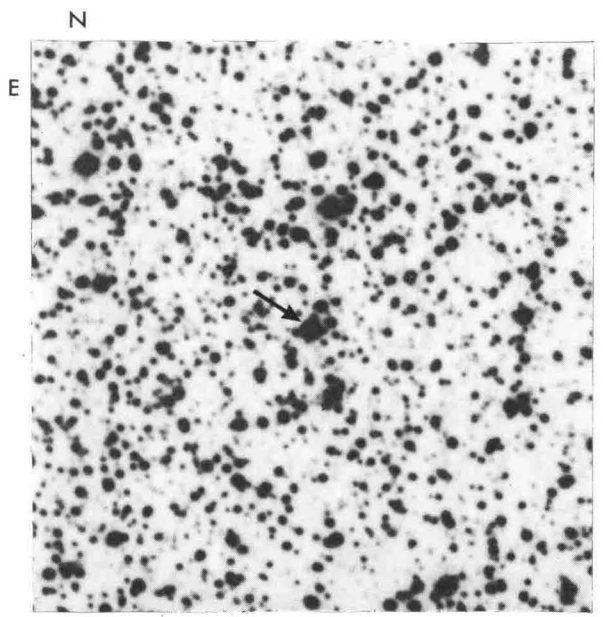
045.7-04.5 NGC 6804 POS E 202



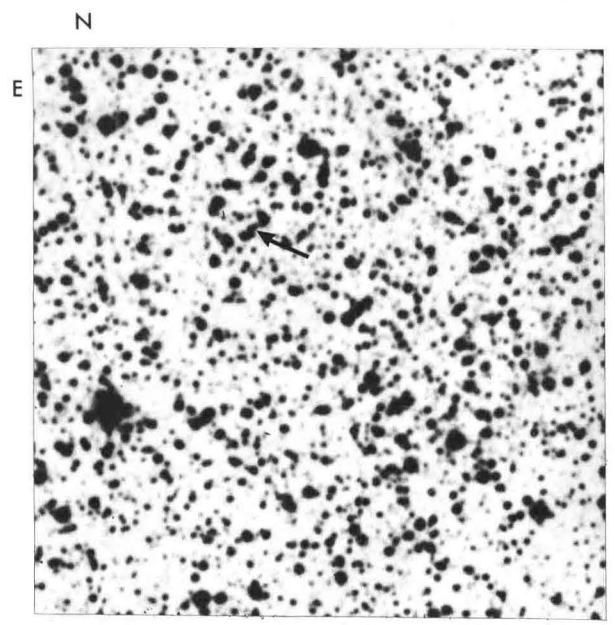
045.9-01.9 K 3-33 POS E 506



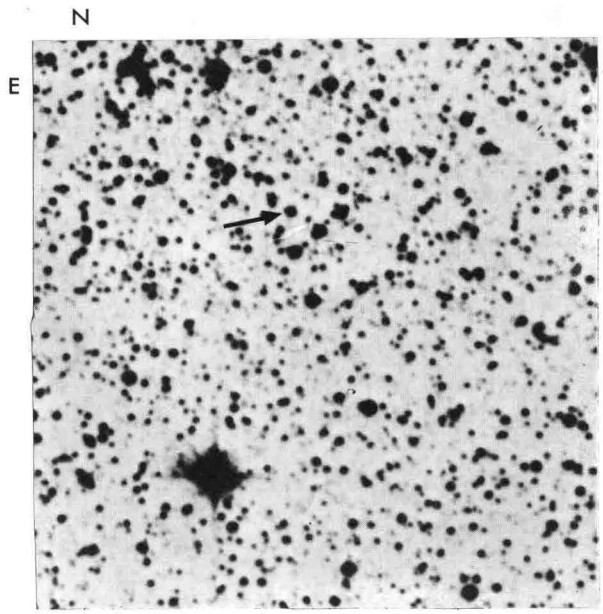
046.3-03.1 PB 9 POS E 506



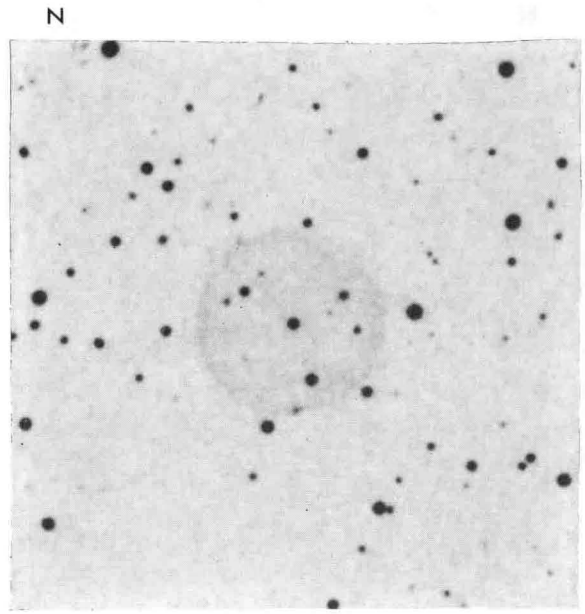
046.4-04.1 NGC 6803 POS E 506



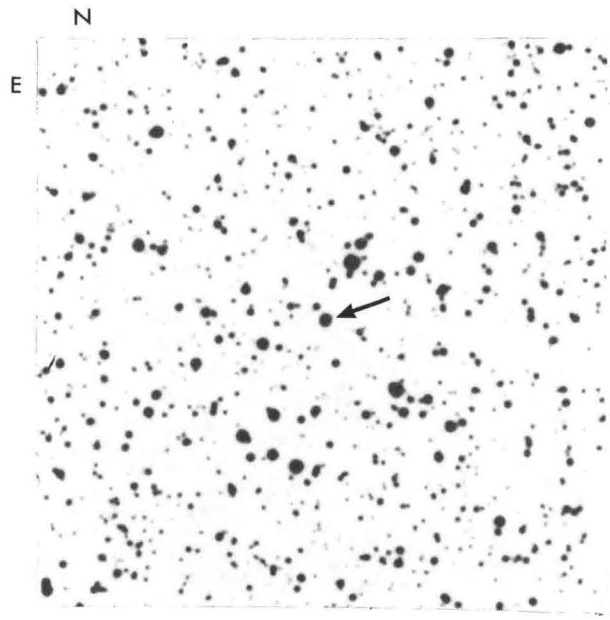
046.8+03.8 CTSS 3 POS O 544



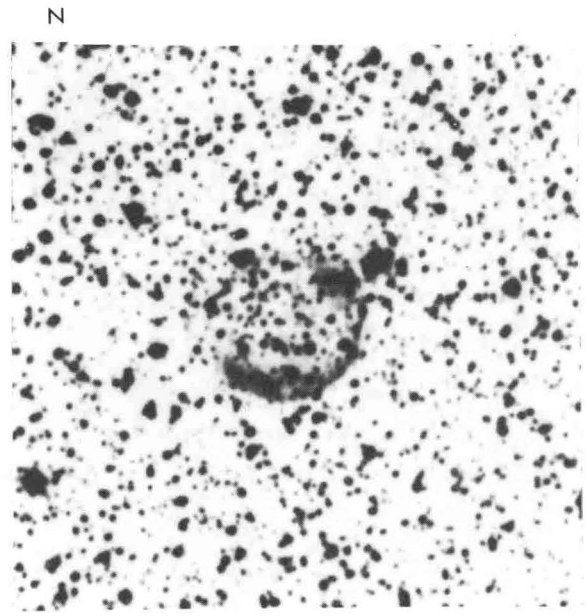
046.8+02.9 CTSS 4 POS E 544



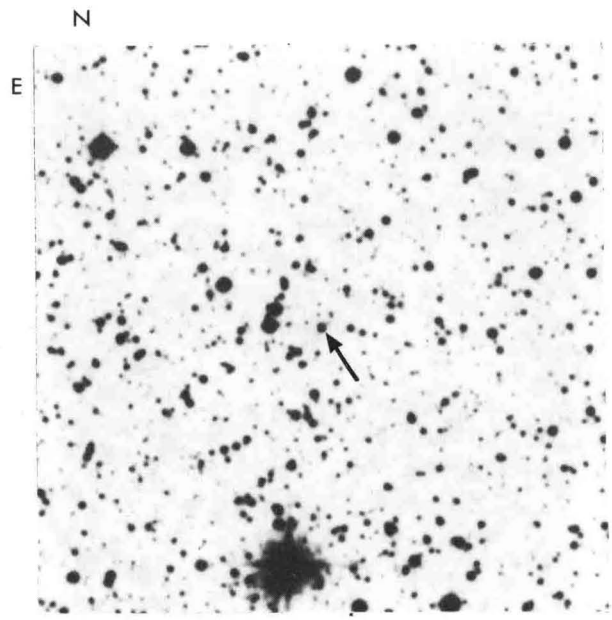
047.0+42.4 A 39 POS E1097



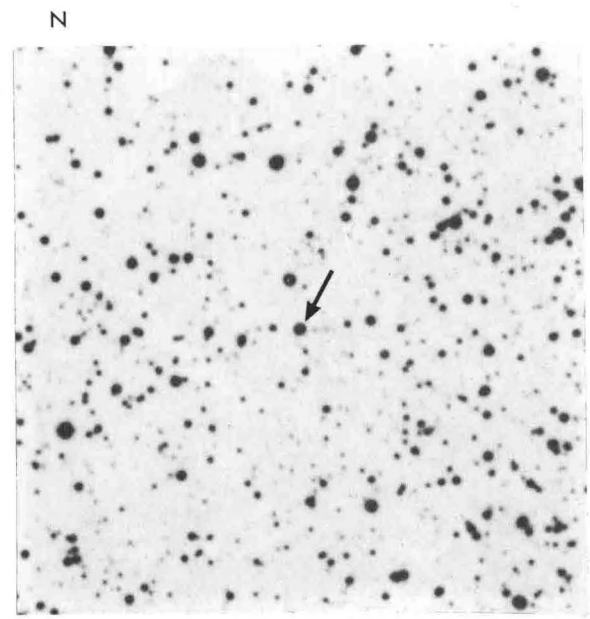
047.1+04.1 K 3-21 POS E 544



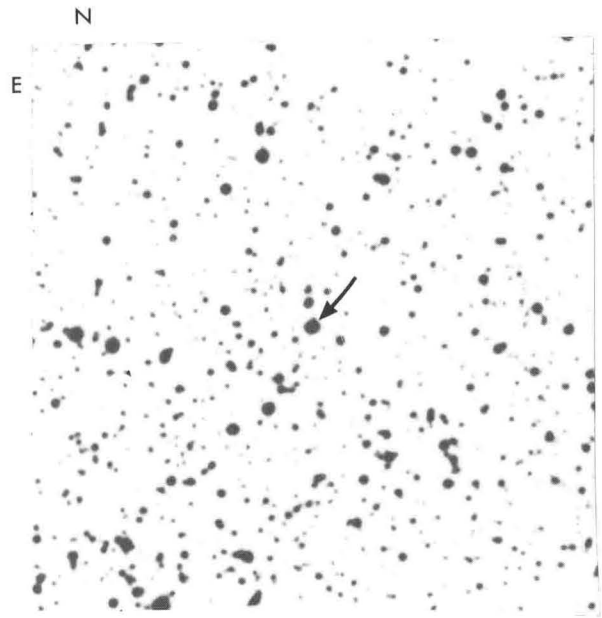
047.1-04.2 A 62 POS E 782



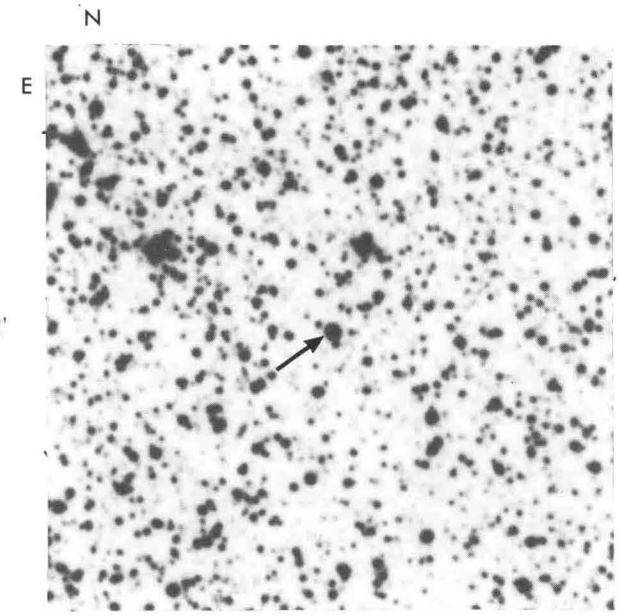
048.5+04.2 K 4-16 POS E 287



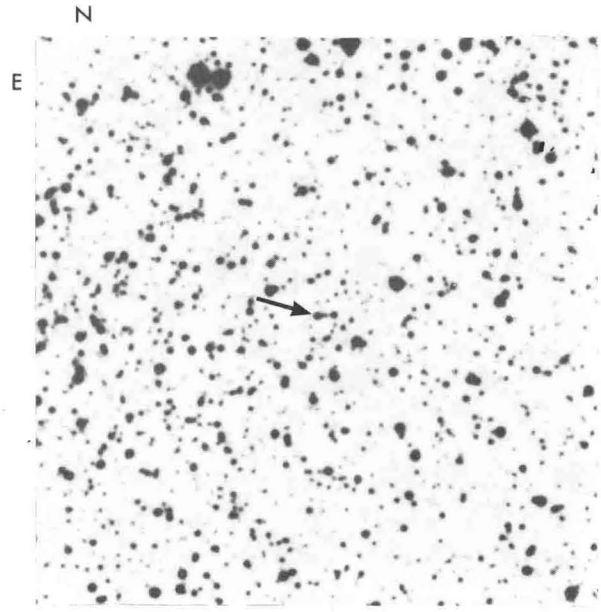
048.7+02.3 K 3-24 POS E 506



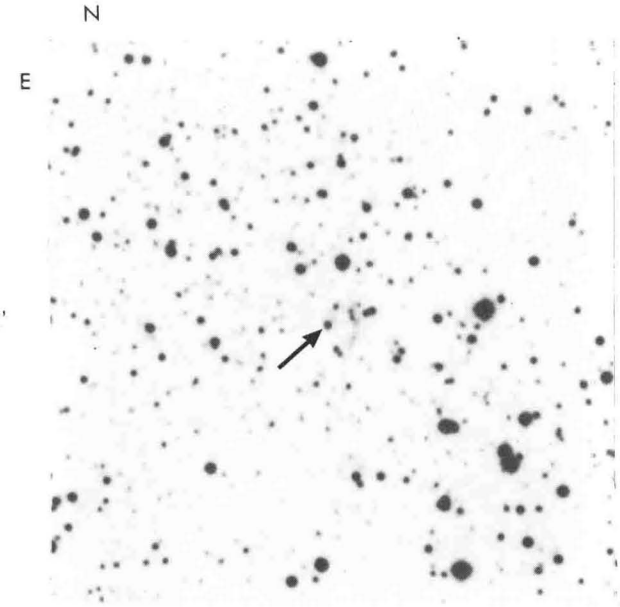
048.7+01.9 He 2-429 POS E 506



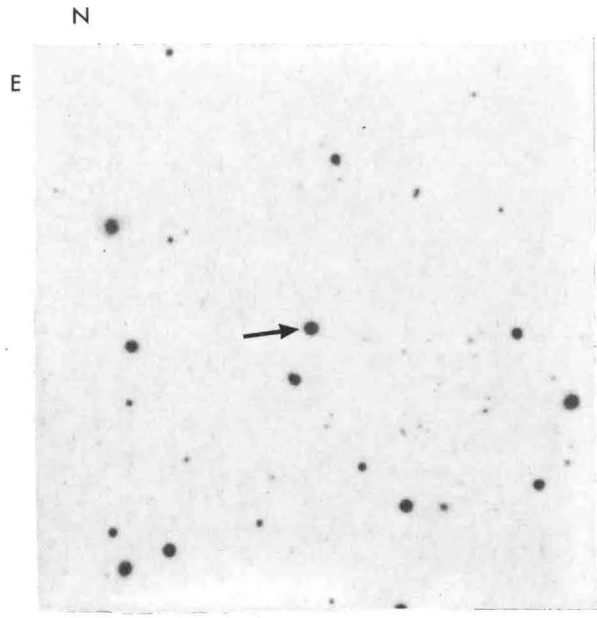
048.0-02.3 PB 10 POS E 506



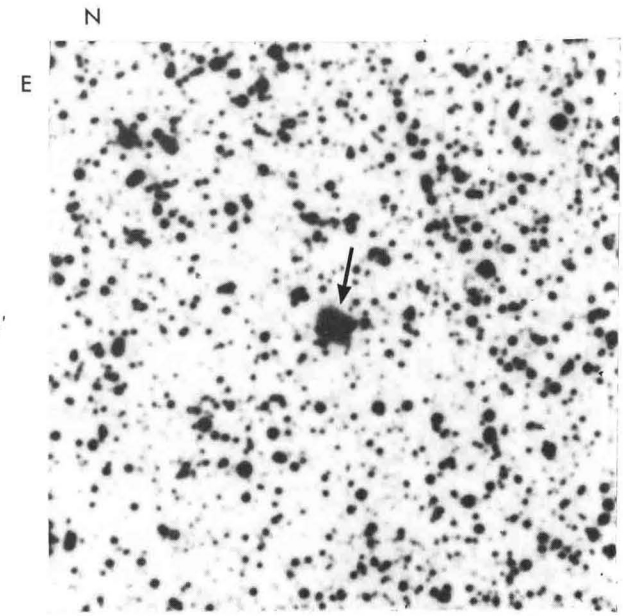
048.1+01.1 K 3-29 POS E 506



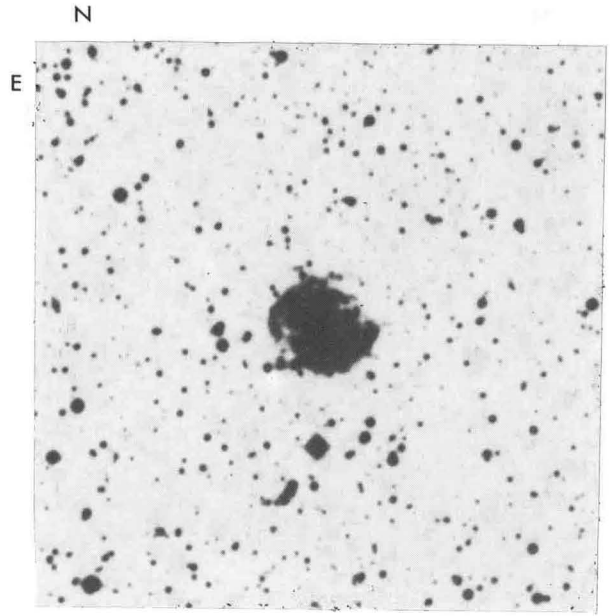
048.7-01.5 DeHt 4 POS E 506



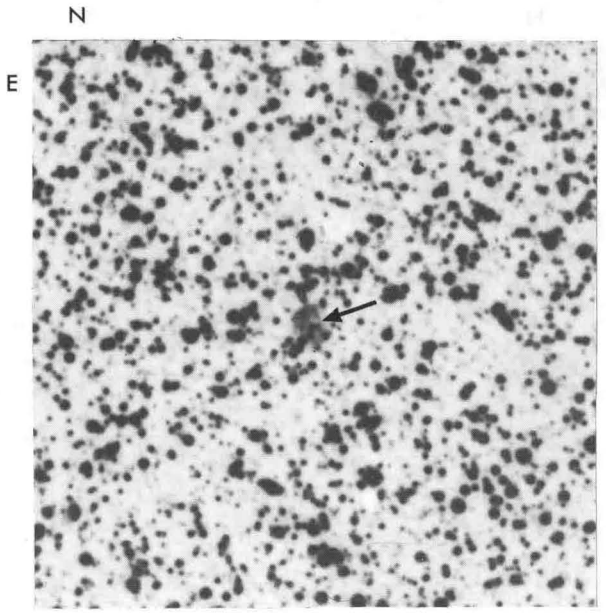
049.3+88.1 H 4- 1 POS E1393



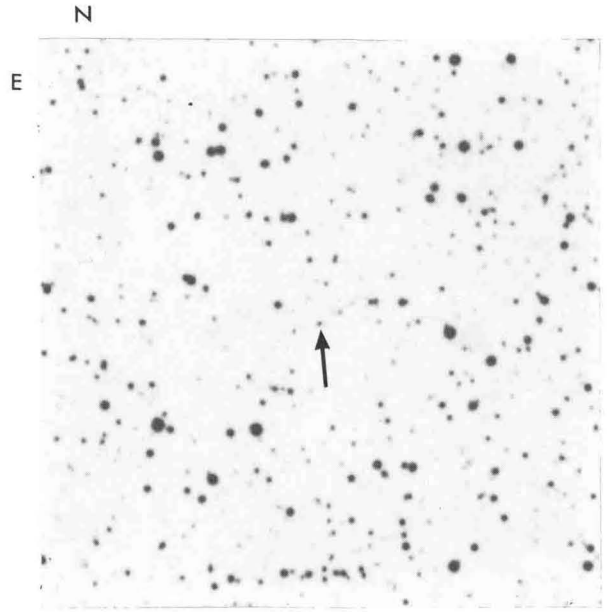
049.4+02.4 He 2-428 POS E 793



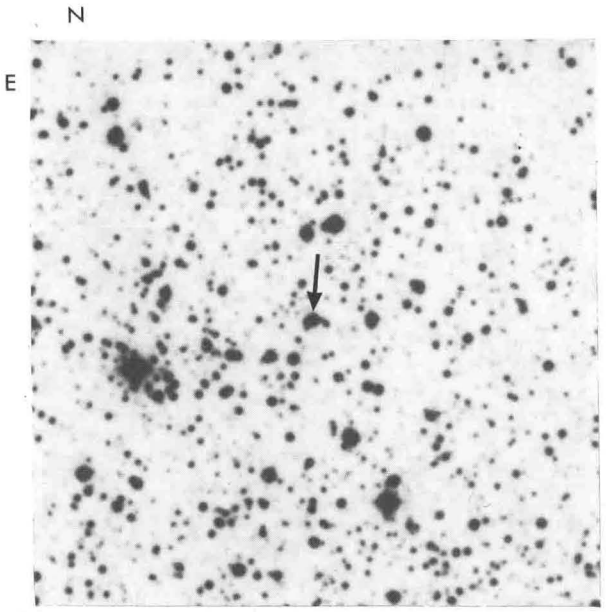
050.1+03.3 M 1-67 POS E 793



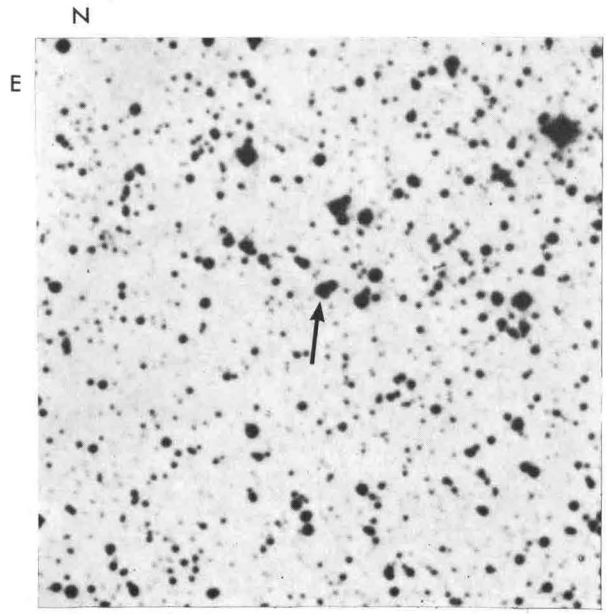
050.4+05.2 A 52 POS E 287



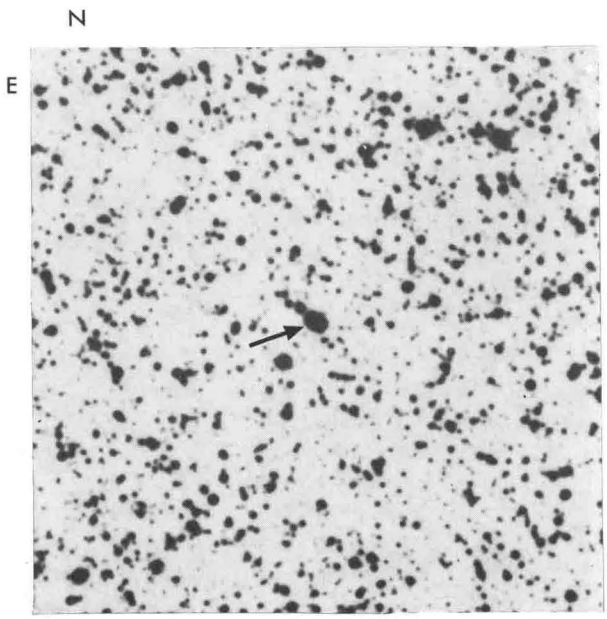
050.4–01.6 K 4-28 POS E 506



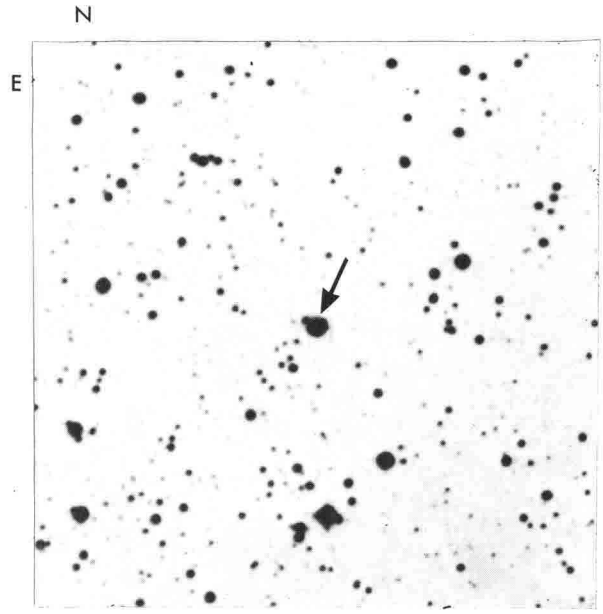
051.0+03.0 He 2-430 POS E 793



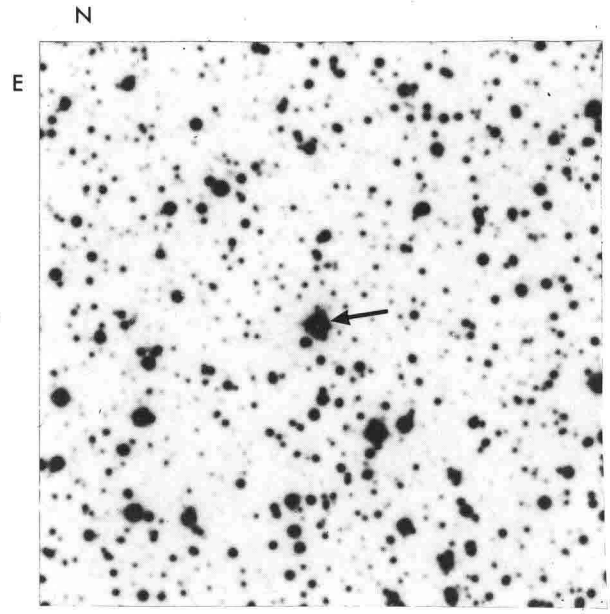
051.0+02.8 WhMe 1 POS E 793



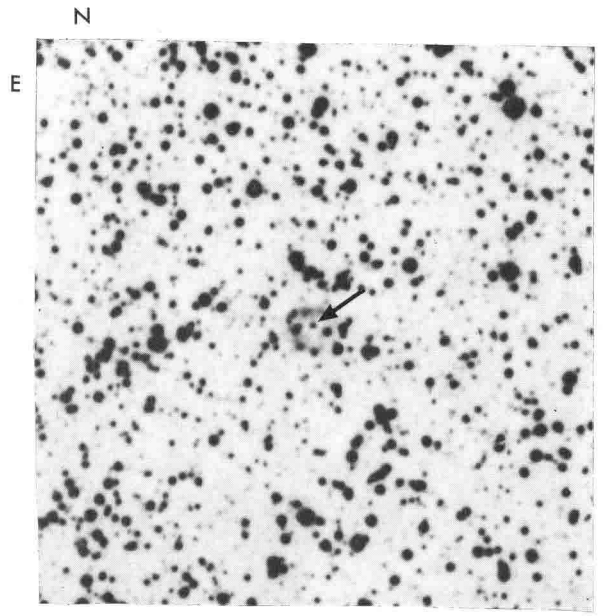
051.0-04.5 PC 22 POS E 782



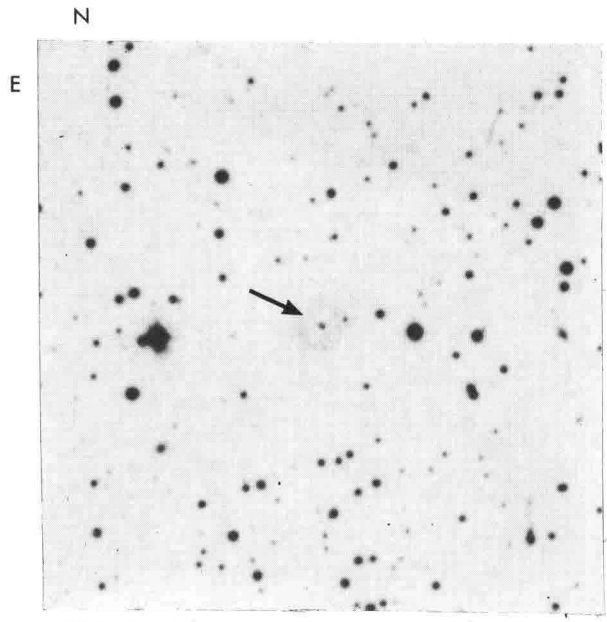
051.3+01.8 PM 1-295 POS E 793



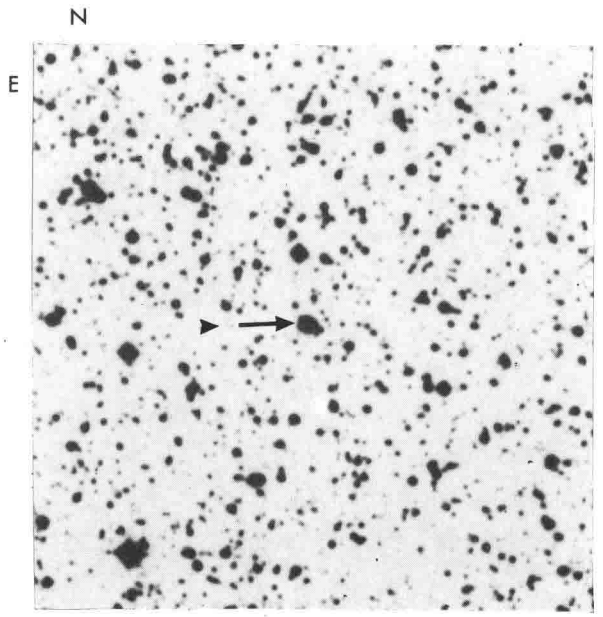
051.4+09.6 Hu 2- 1 POS E 287



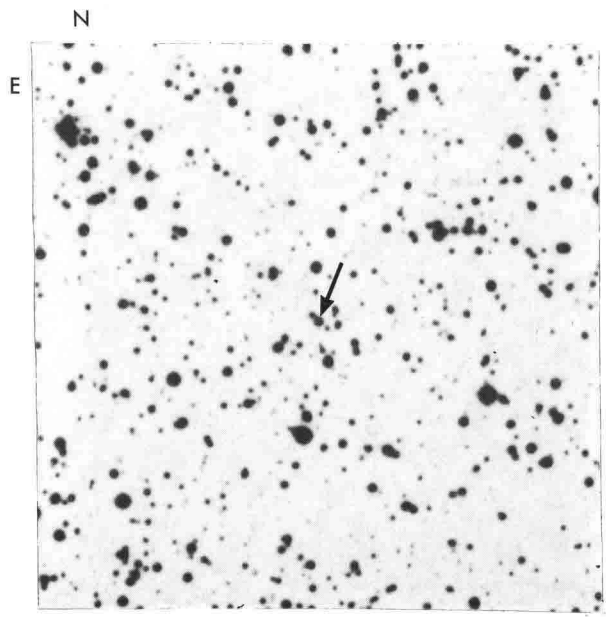
051.5+06.1 K 1-17 POS E 287



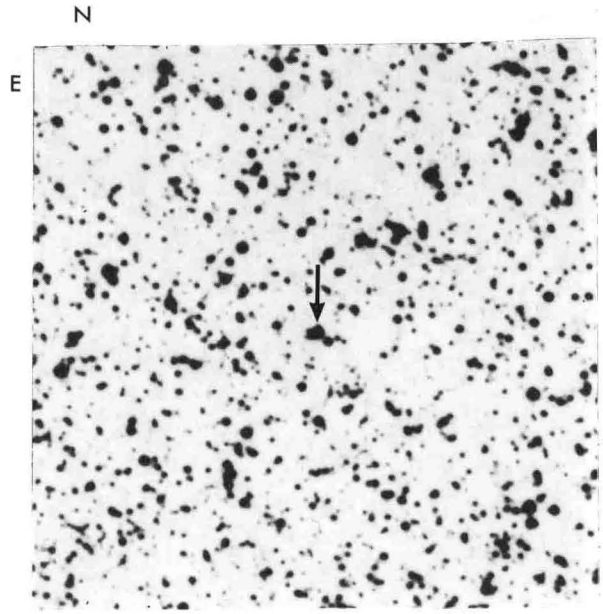
051.9+25.8 K 1-15 POS E 582



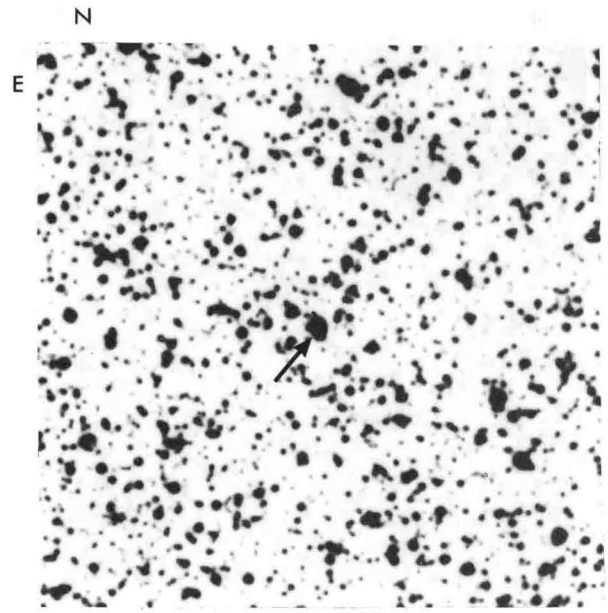
051.9-03.8 M 1-73 POS E 782



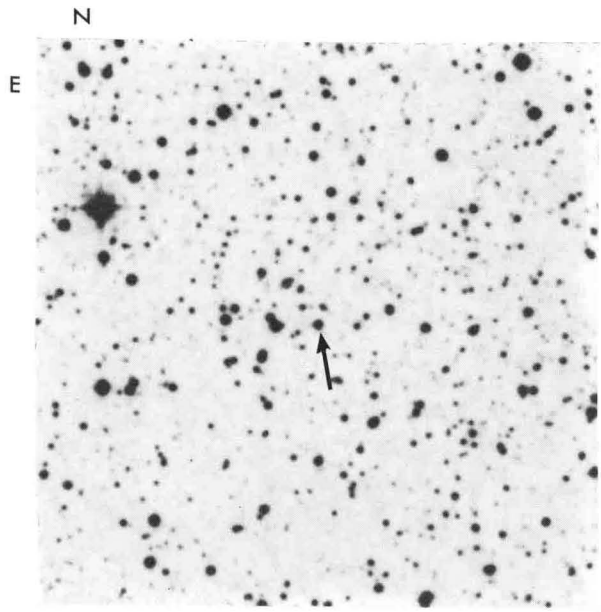
052.2+07.6 K 4-10 POS E 287



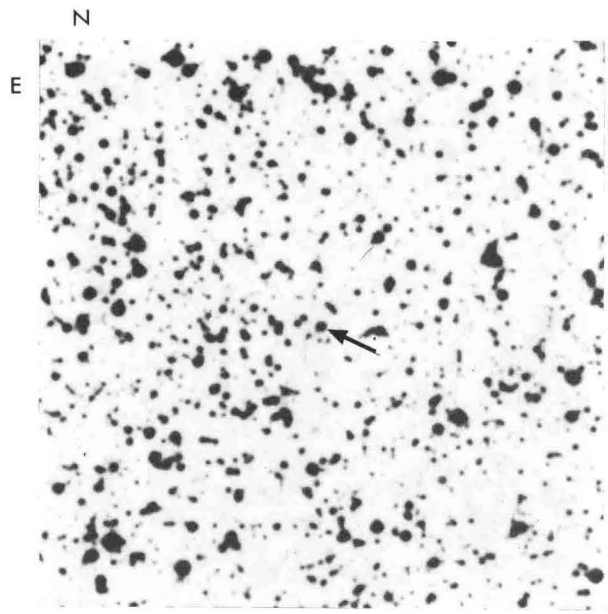
052.2-04.0 M 1-74 POS E 782



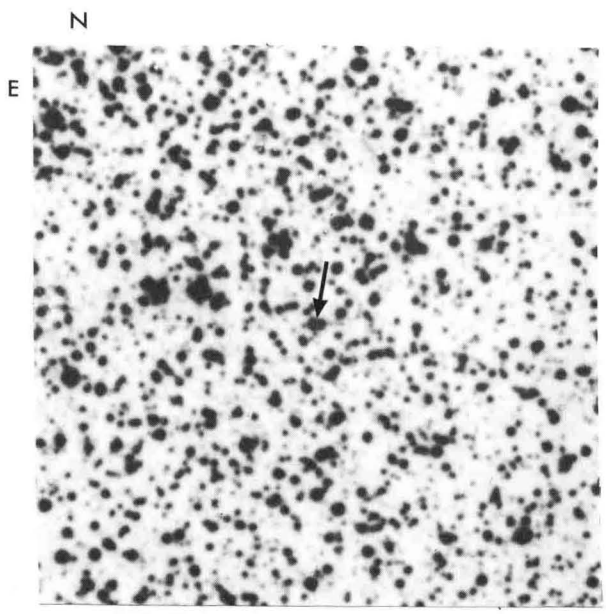
052.5-02.9 Me 1-1 POS E 190



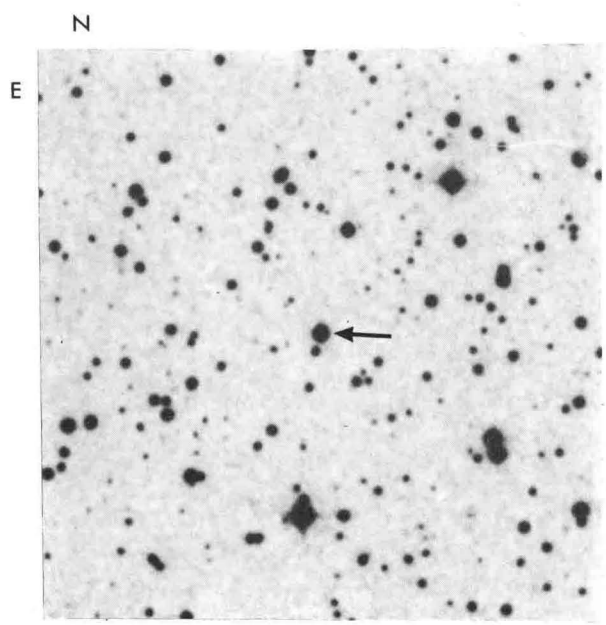
052.9+02.7 K 3-31 POS E 793



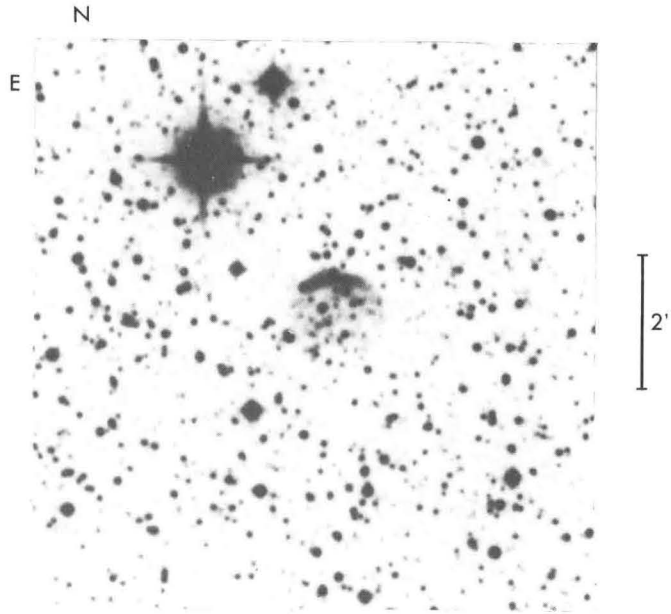
052.9-02.7 K 3-41 POS E 190



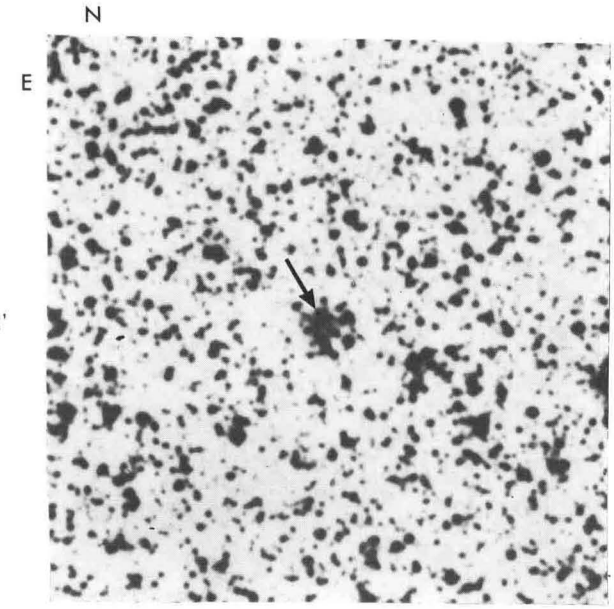
053.2-01.5 K 3-38 POS E 190



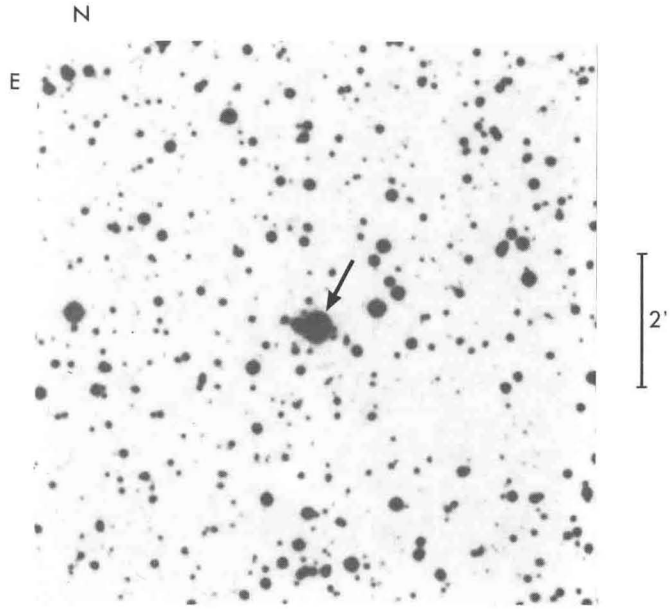
053.3+24.0 Vy 1- 2 POS E 532



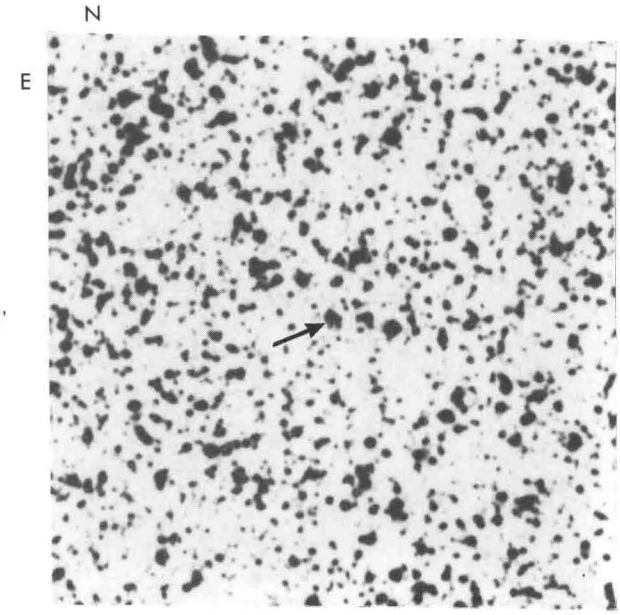
053.3+03.0 A 59 POS E 793



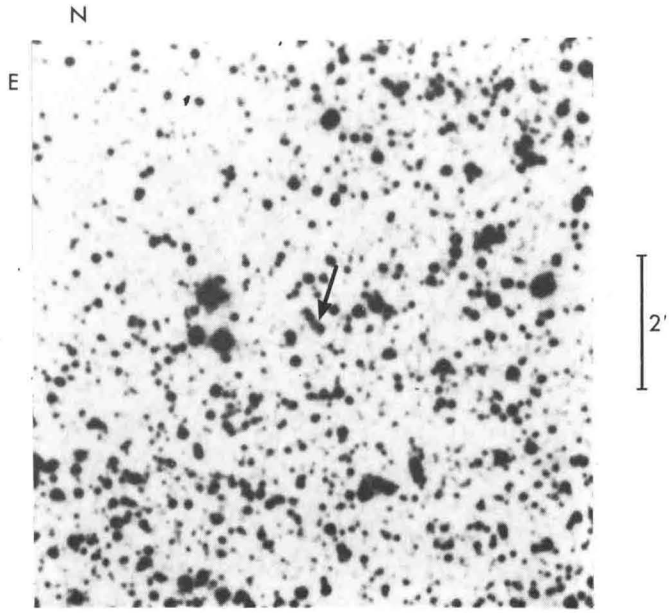
053.8-03.0 A 63 POS E 190



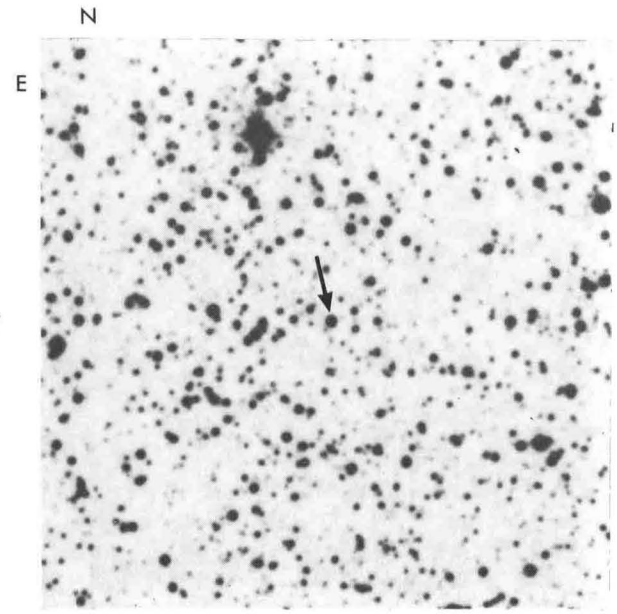
054.1-12.1 NGC 6891 POS E 325



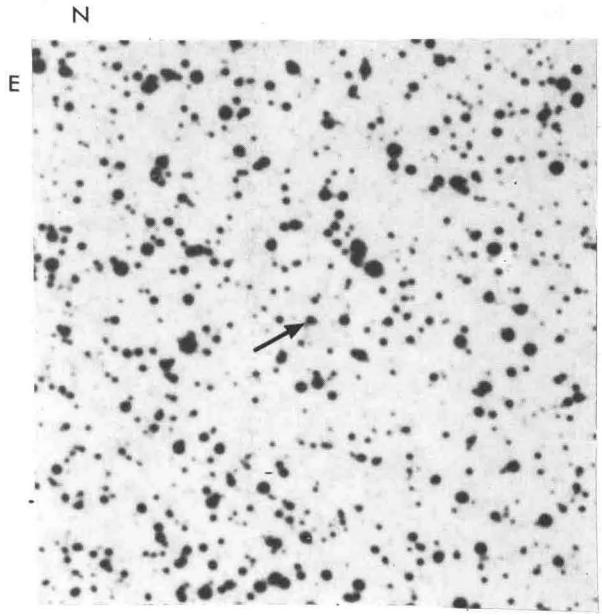
054.4-02.5 M 1-72 POS E 190



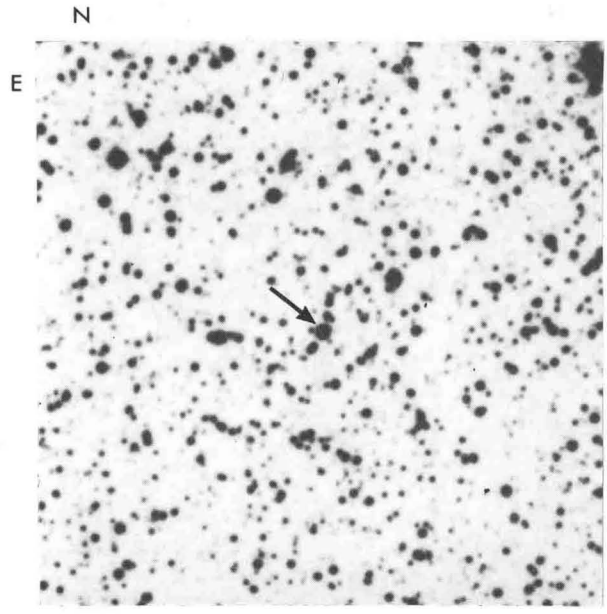
055.1-01.8 K 3-43 POS O 190



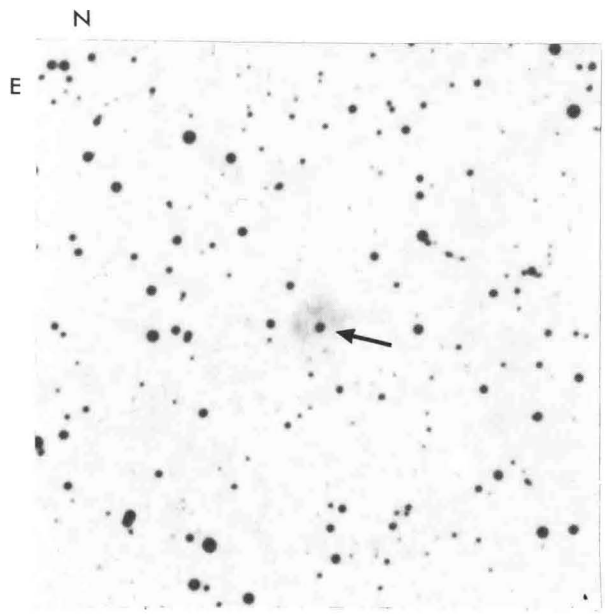
055.2+02.8 He 2-432 POS E 793



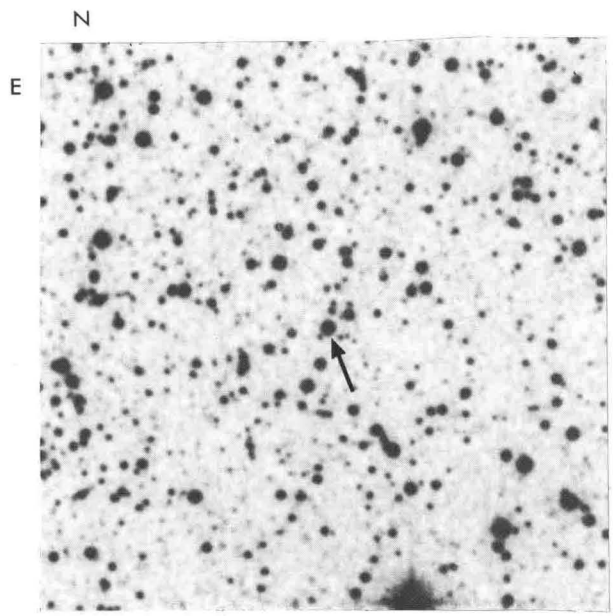
055.3+06.6 A 54 POS E 149



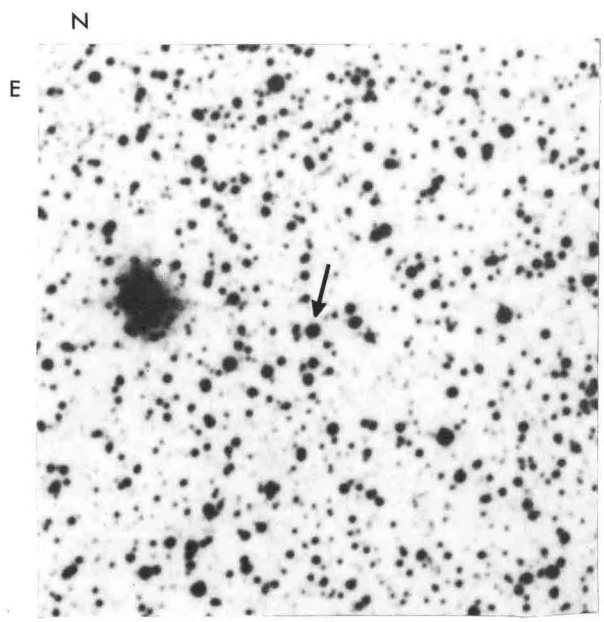
055.3+02.7 He 1- 1 POS E 793



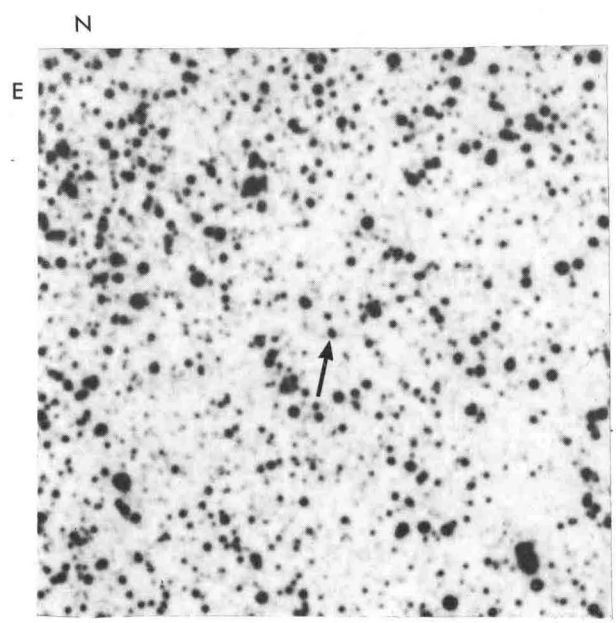
055.4+16.0 A 46 POS E1089



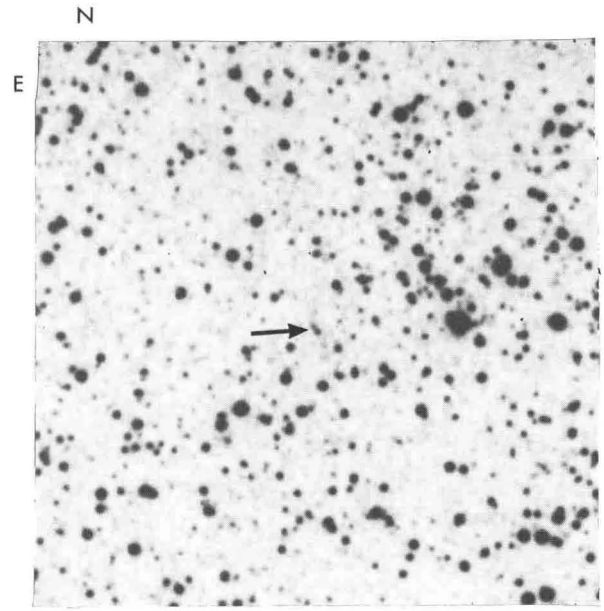
055.5−00.5 M 1-71 POS O 190



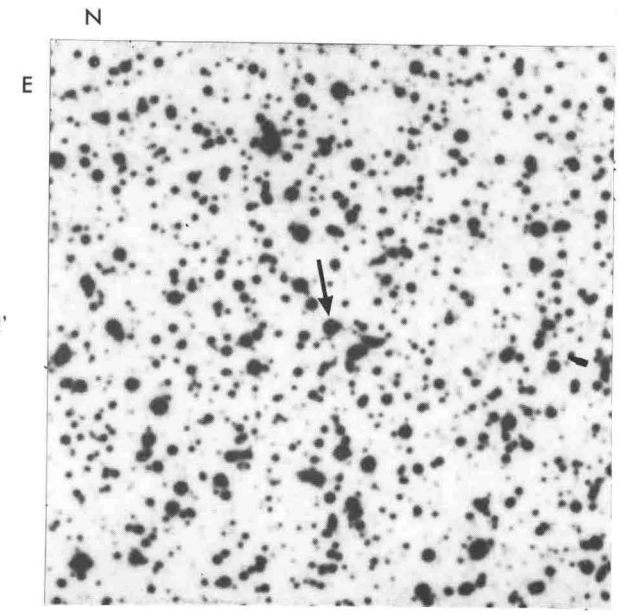
055.6+02.1 He 1- 2 POS E 793



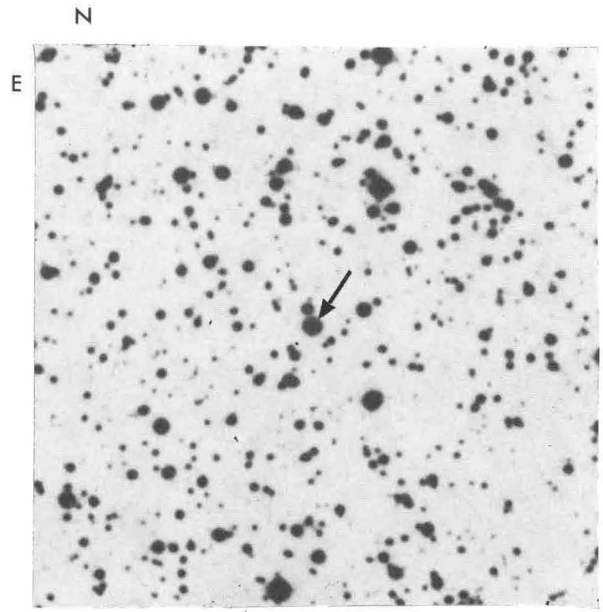
056.0+02.0 K 3-35 POS E 185



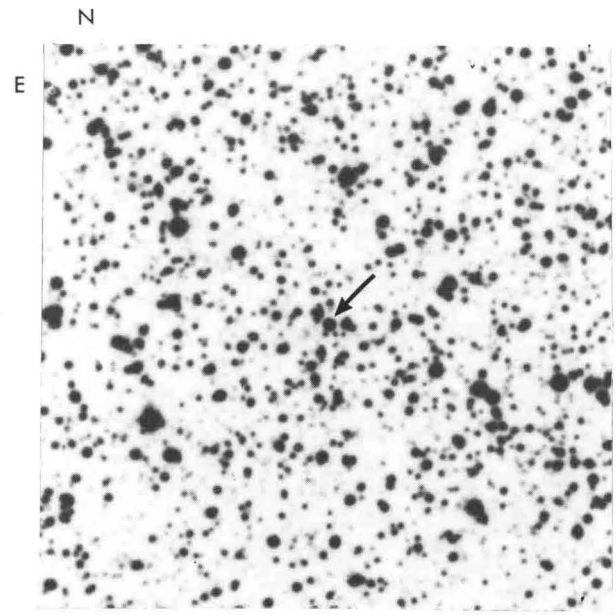
056.4 - 00.9 K 3-42 POS O 190



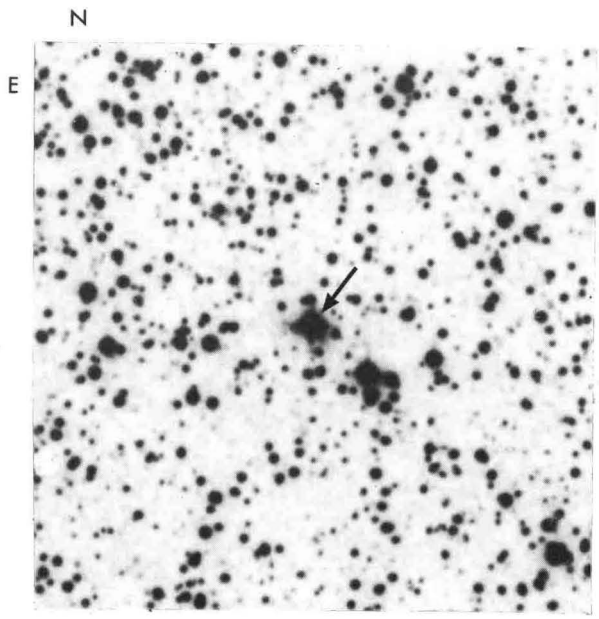
056.8-06.9 K 3-51 POS E 372



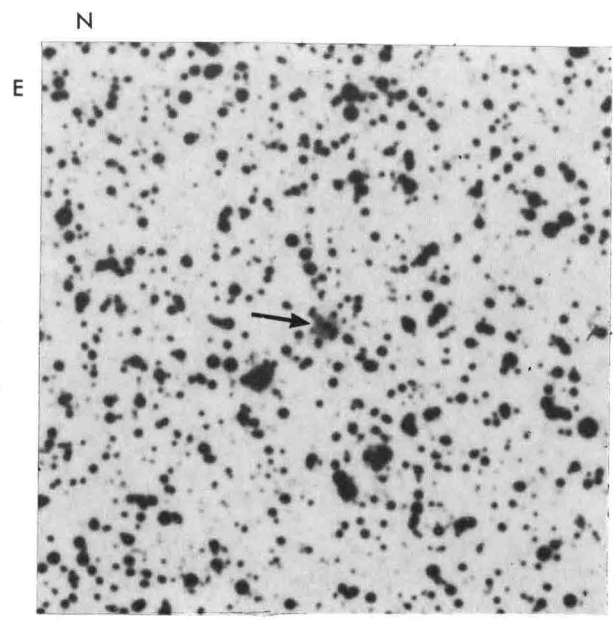
057.2-08.9 NGC 6879 POS E 372



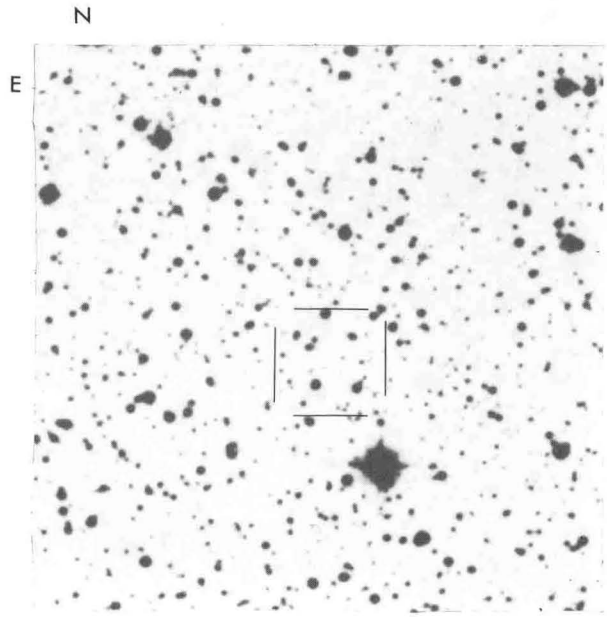
057.9-01.5 He 2- 447 POS E 190



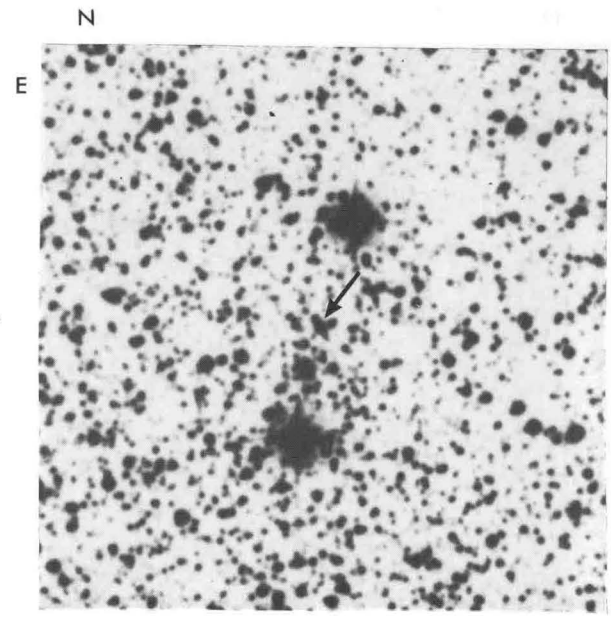
058.3-10.9 IC 4997 POS E 276



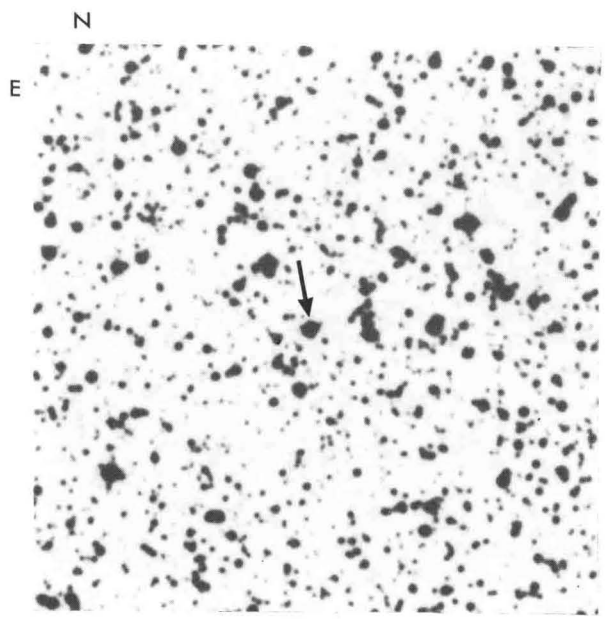
058.6+06.1 A 57 POS E 149



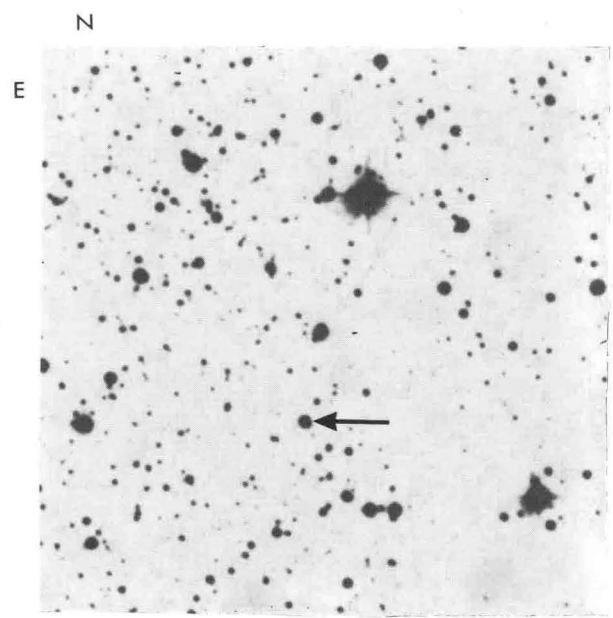
058.6-05.5 WeSb 5 POS E 372



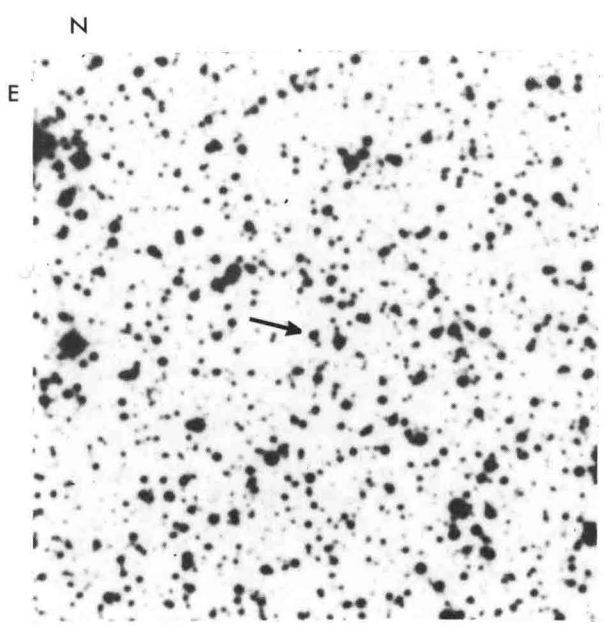
058.9+01.3 K 3-40 POS E 185



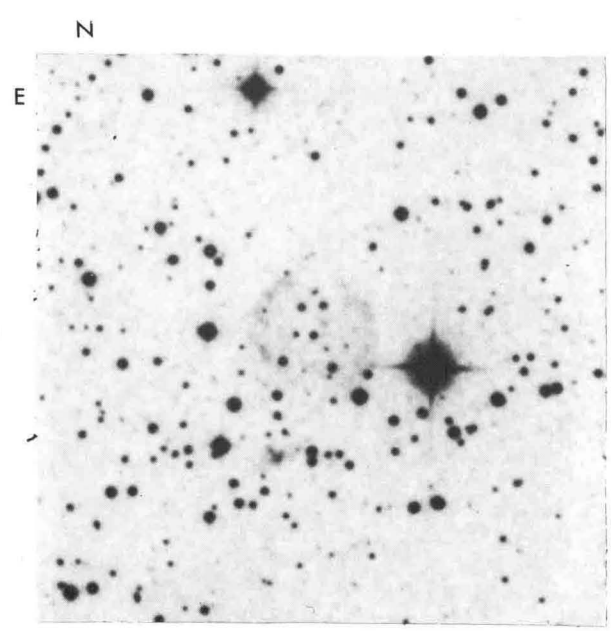
059.0+04.6 K 3-34 POS E 185



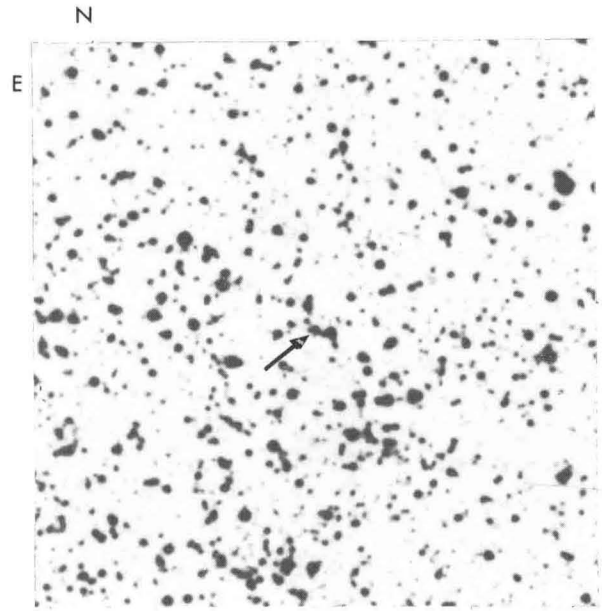
059.0-01.7 He 1- 3 POS E 185



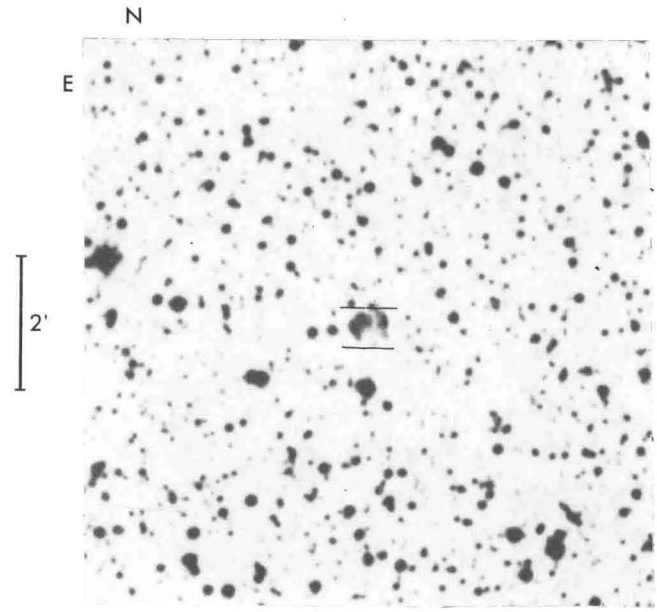
059.4+02.3 K 3-37 POS E 185



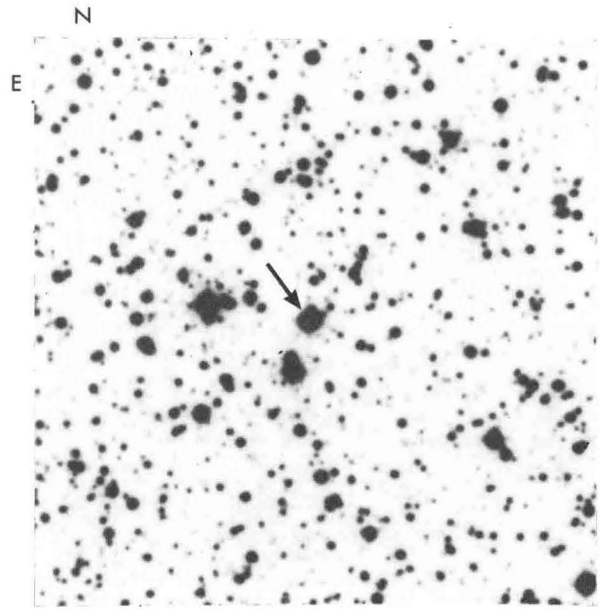
059.7-18.7 A 72 POS E 558



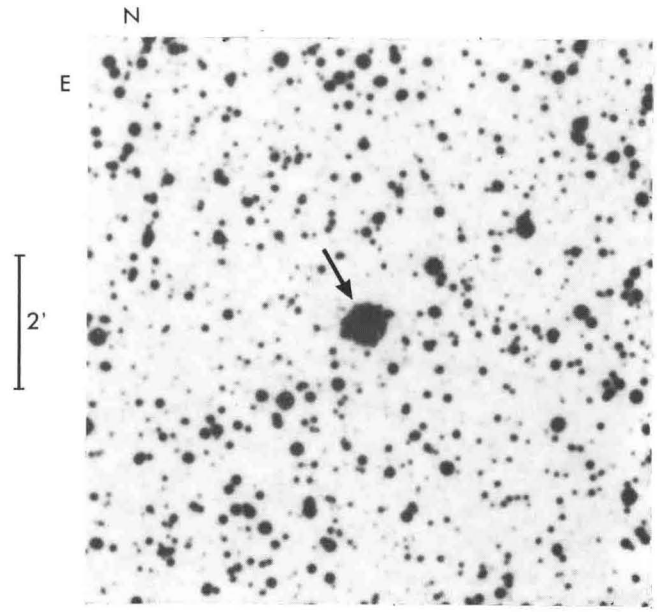
059.9+02.0 K 3-39 POS E 185



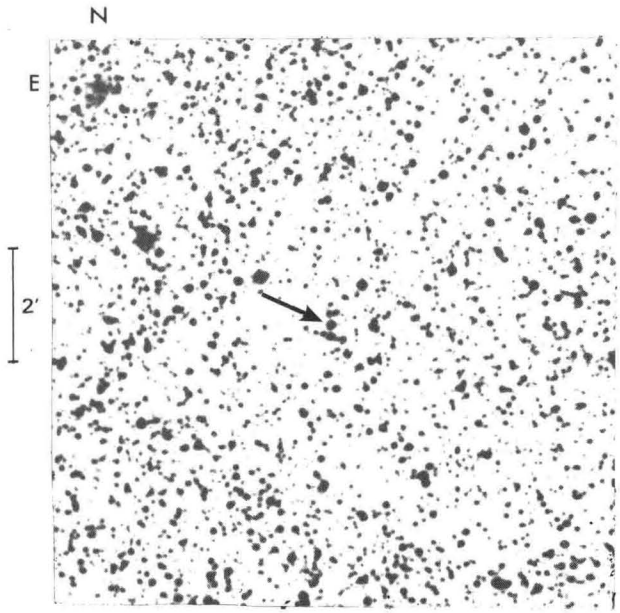
060.0-04.3 A 68 POS E 289



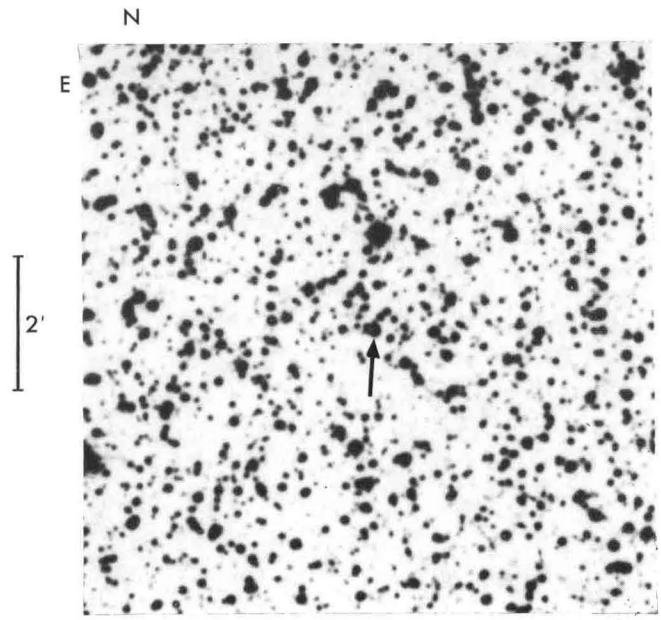
060.1-07.7 NGC 6886 POS E 372



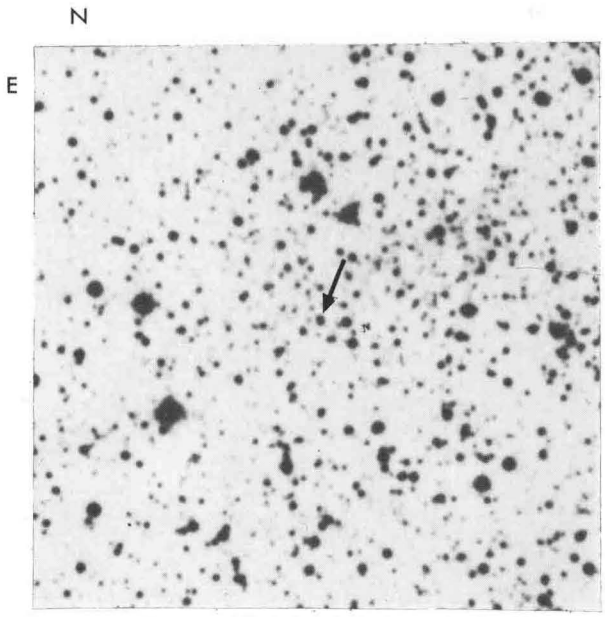
060.3-07.3 He 1- 5 POS E 372



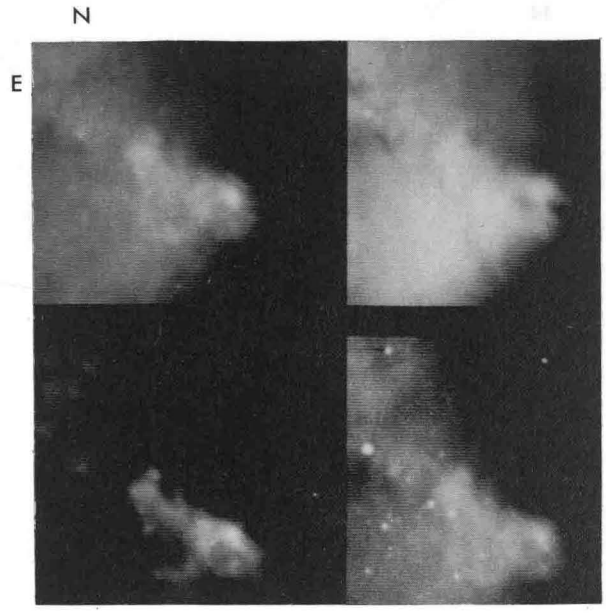
060.4+01.5 HuDo 1 POS O 185



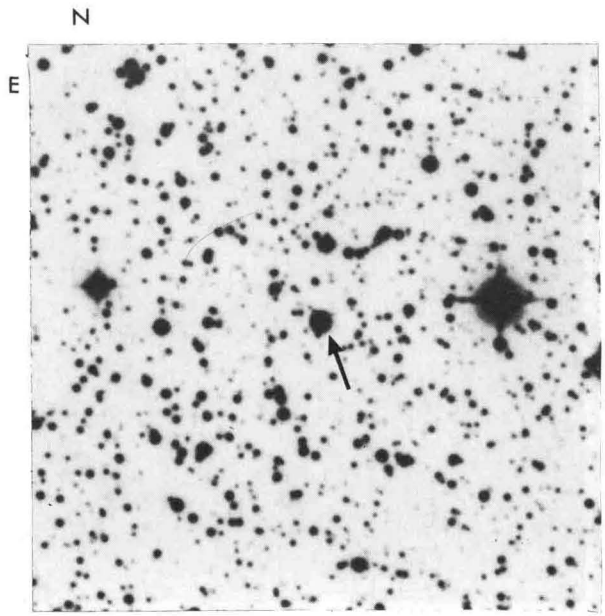
060.5+01.8 He 2-440 POS E 185



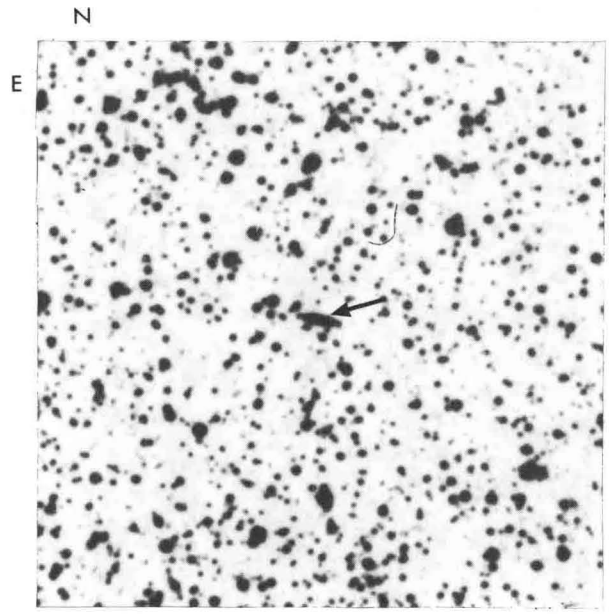
060.5 - 00.3 K 3-45 POS E 185



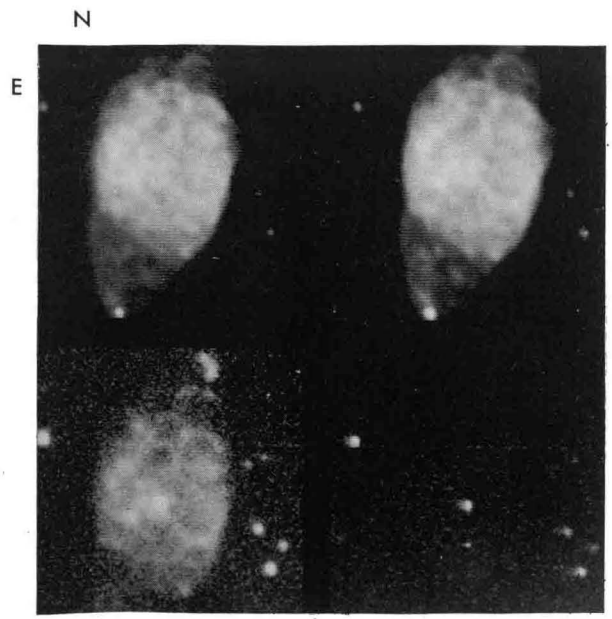
060.8-03.6 NGC 6853 BALICK 87



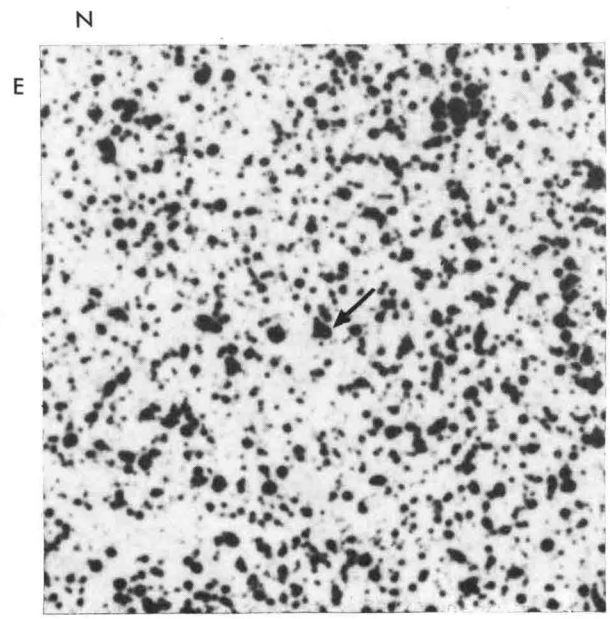
061.0+08.0 K 3-27 POS E 153



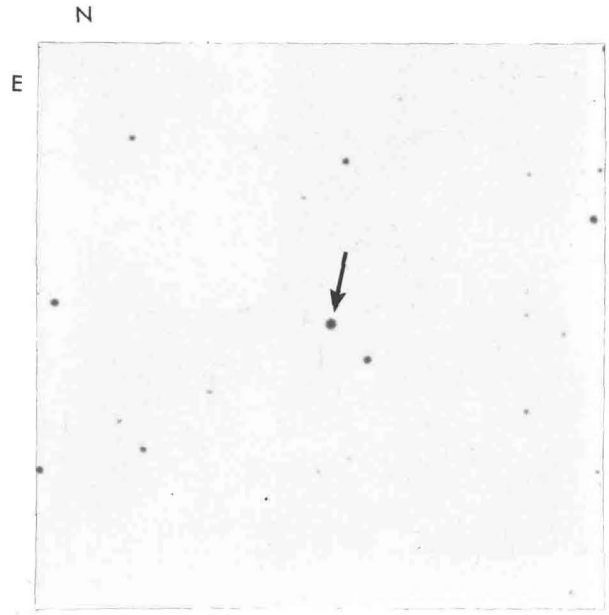
061.3+03.6 He 2- 437 POS E 185



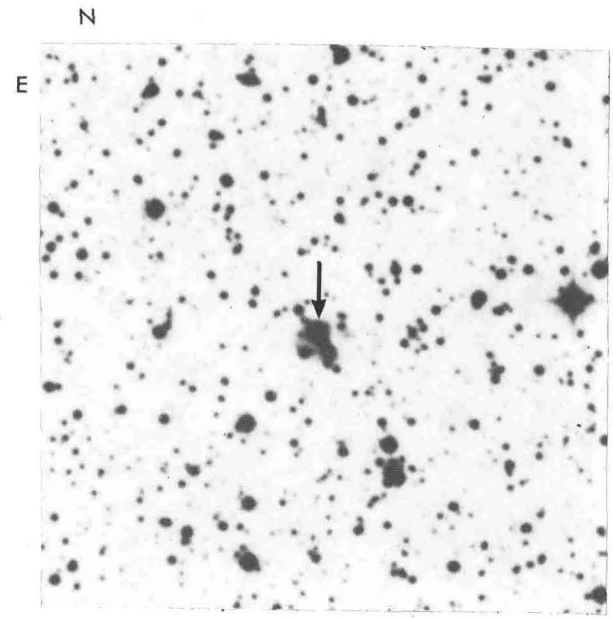
061.4-09.5 NGC 6905 BALICK 87



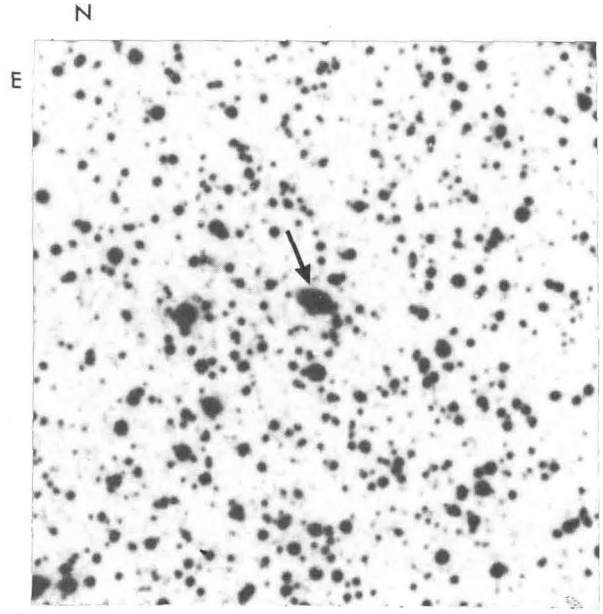
061.8+02.1 He 2-442 POS E 185



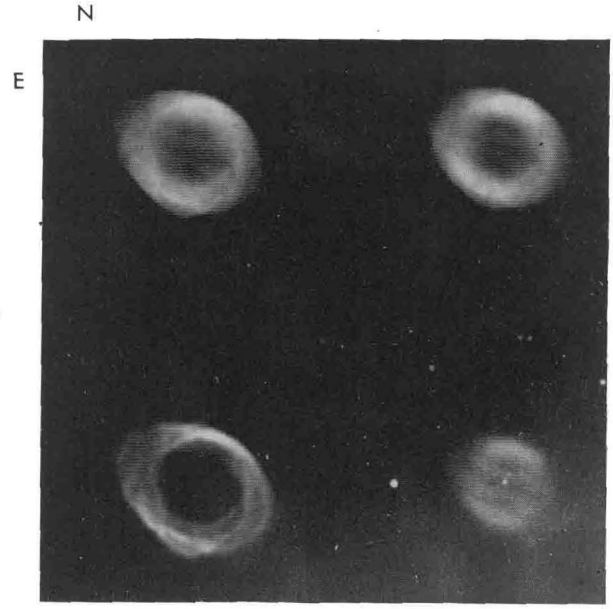
061.9+41.3 DdDm 1 POS E 743



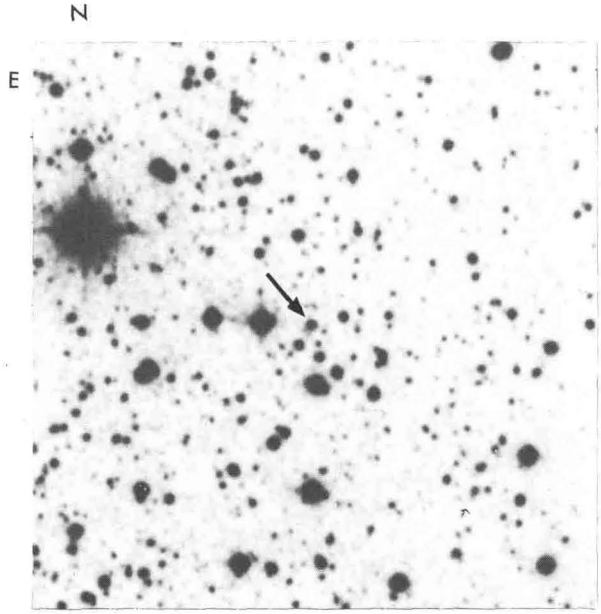
062.4+09.5 NGC 6765 POS E 153



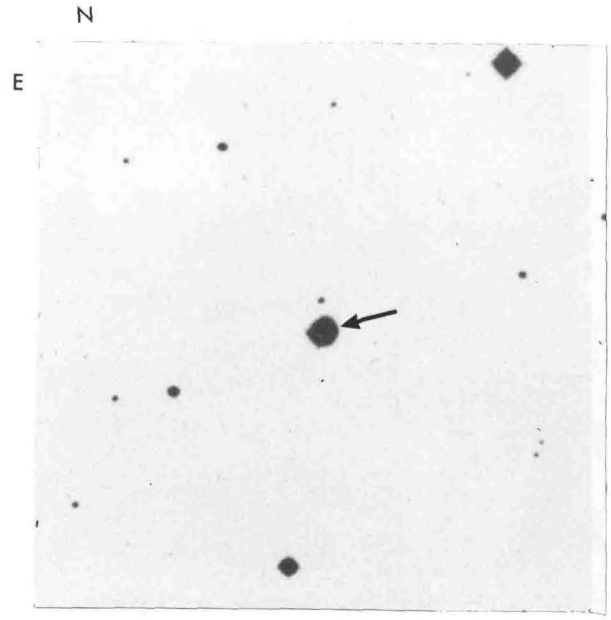
062.4 - 00.2 M 2-48 POS E 289



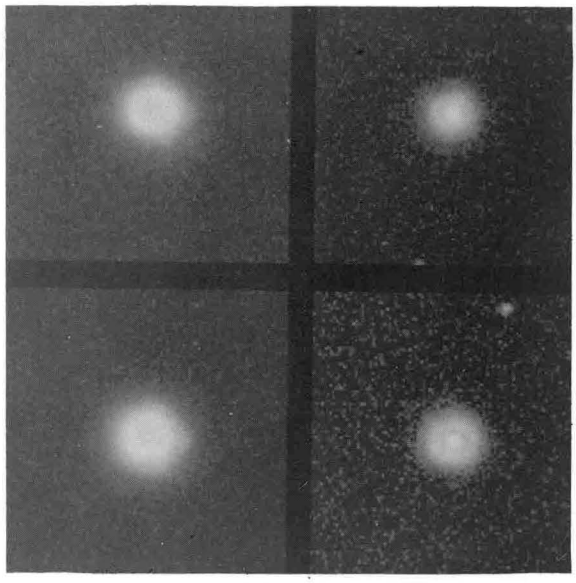
063.1+13.9 NGC 6720 BALICK 87



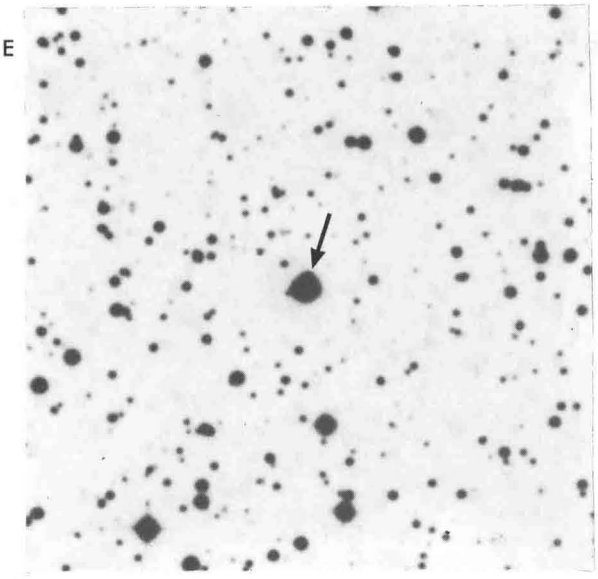
063.8-03.3 K 3-54 POS E 289



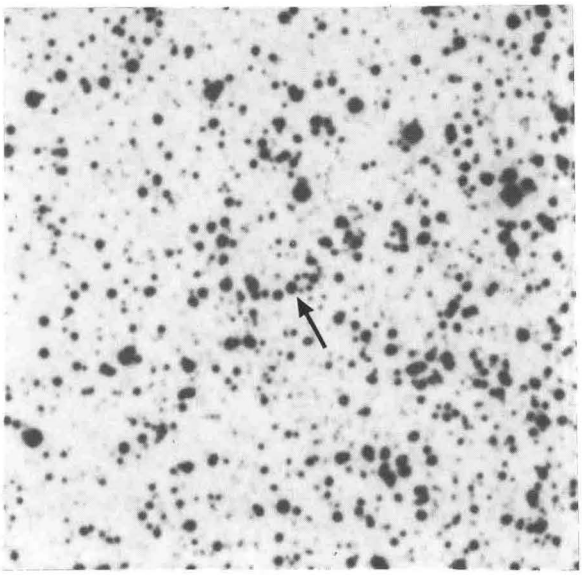
064.6+48.2 NGC 6058 POS E1369



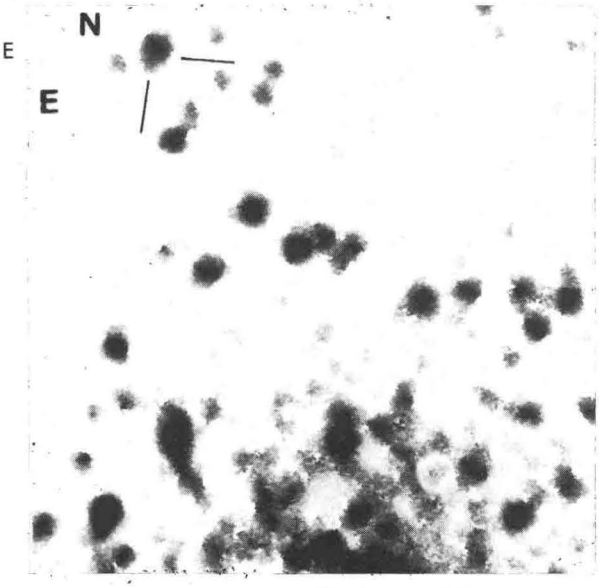
064.7+05.0 BD+30 3639 BALICK 87



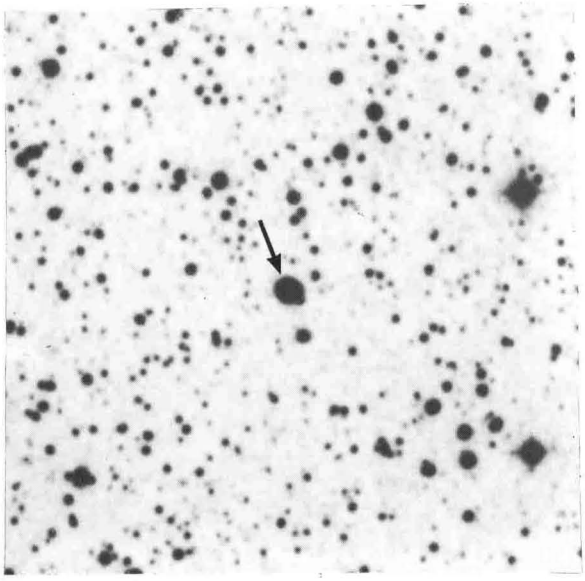
064.9+15.5 M 1-64 POS E 148



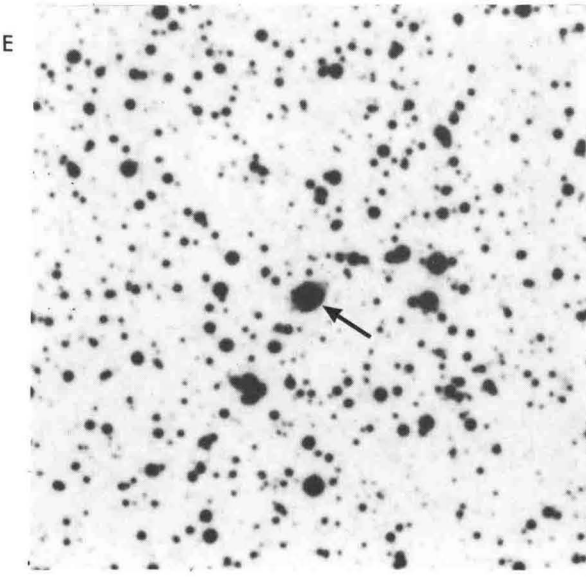
064.9-02.1 K 3-53 POS E 289



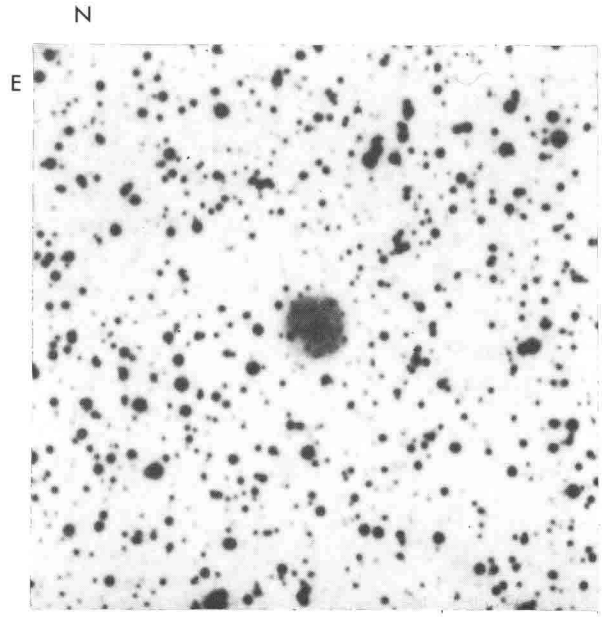
065.0-27.3 Ps 1 CCD image



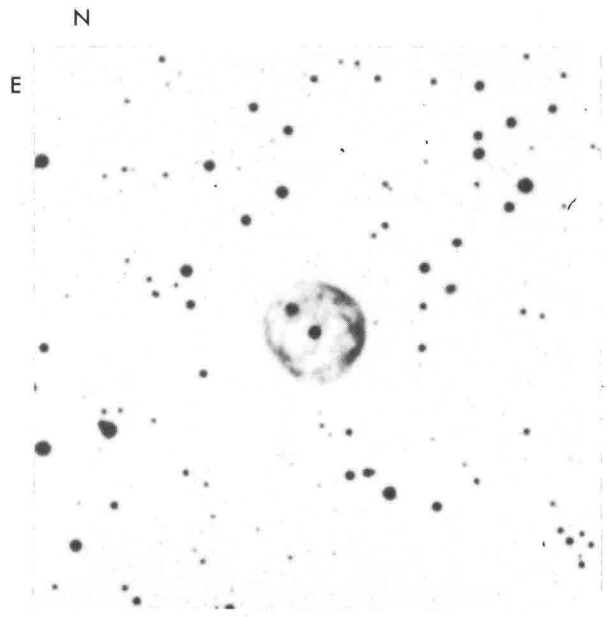
065.1-03.5 We 1- 9 POS E 289



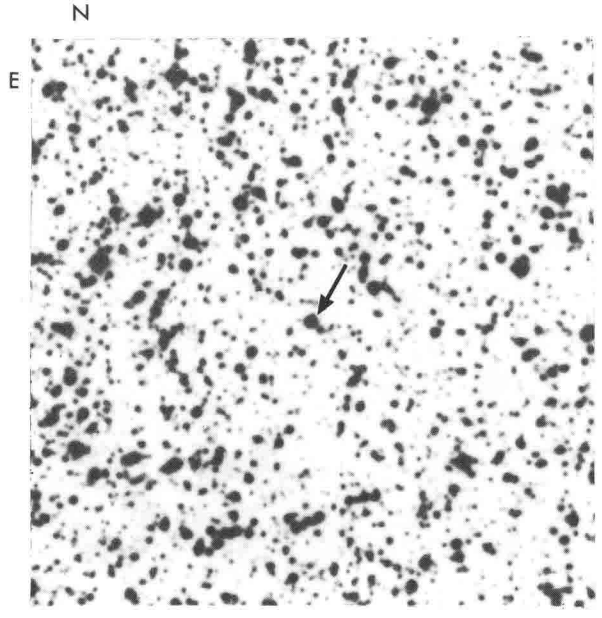
065.2-05.6 He 1- 6 POS E1608



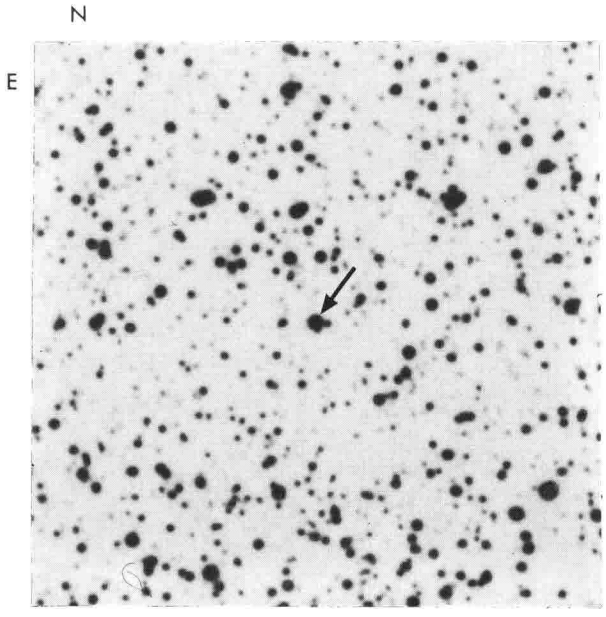
065.9+00.5 NGC 6842 POS E 771



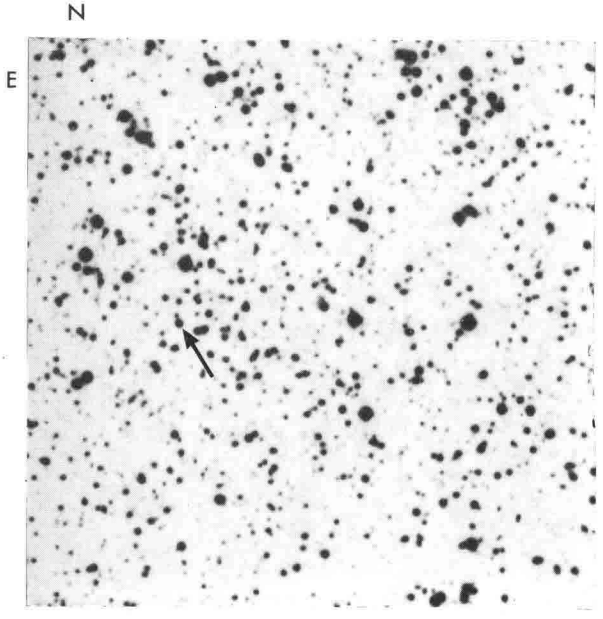
066.7-28.2 NGC 7094 POS E 799



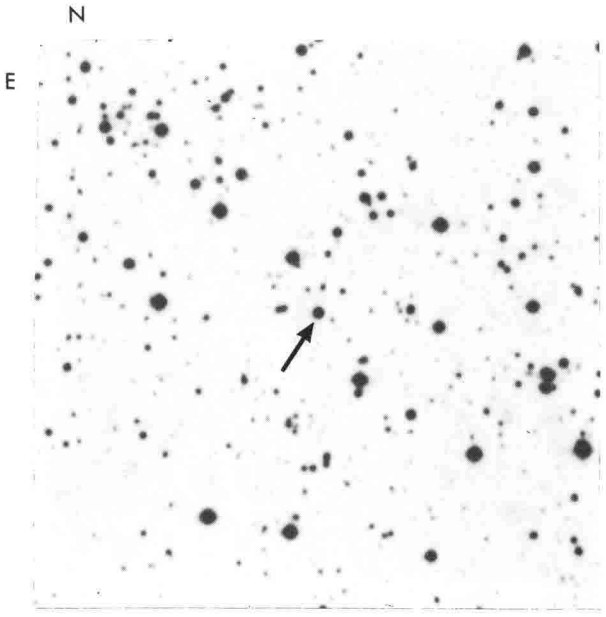
066.9+02.2 K 4-37 POS E 771



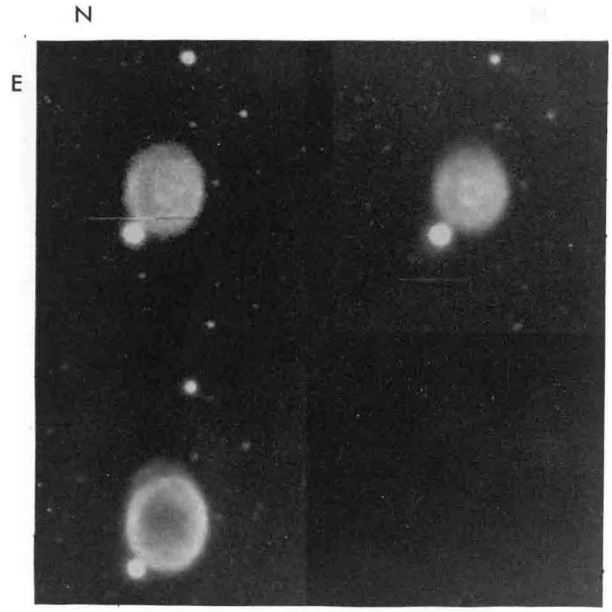
066.9-05.2 PC 24 POS E1068



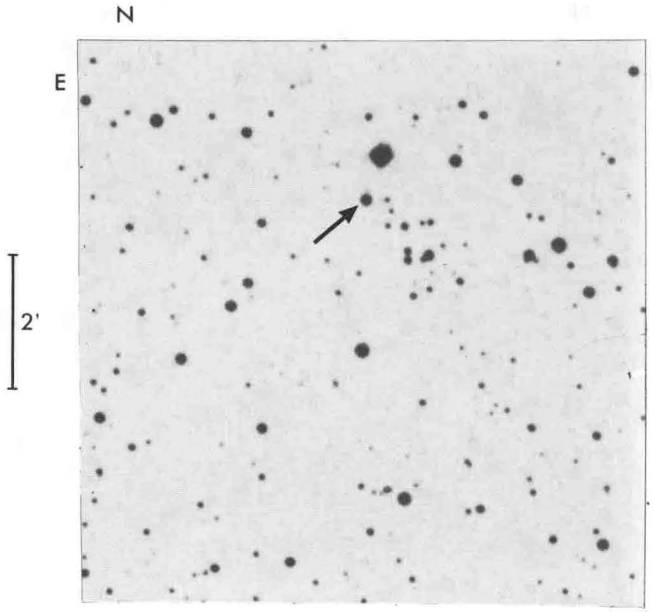
067.9 - 00.2 K 3-52 POS E 771



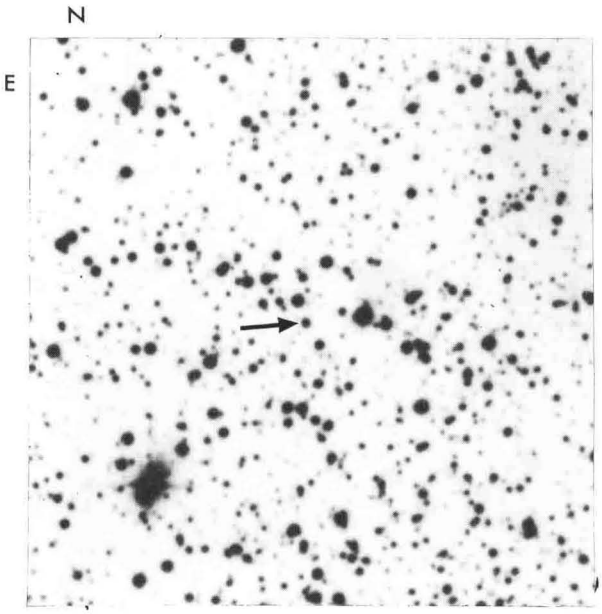
068.3-02.7 He 2- 459 POS E 771



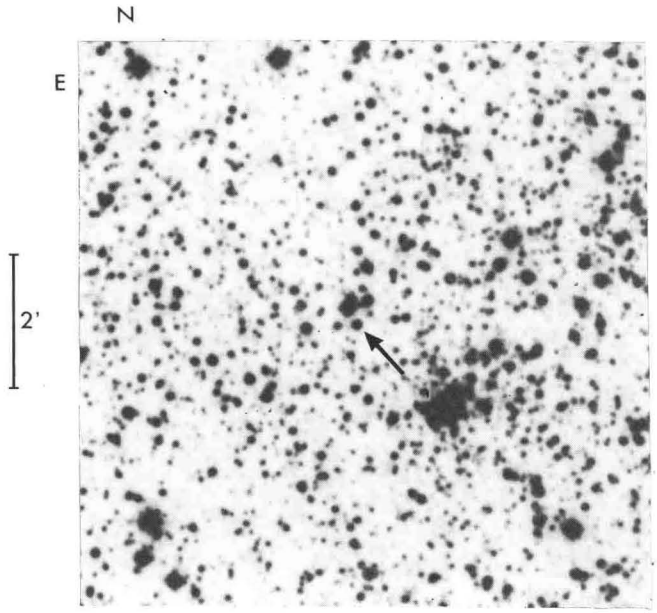
068.6+01.1 He 1- 4 BALICK 87



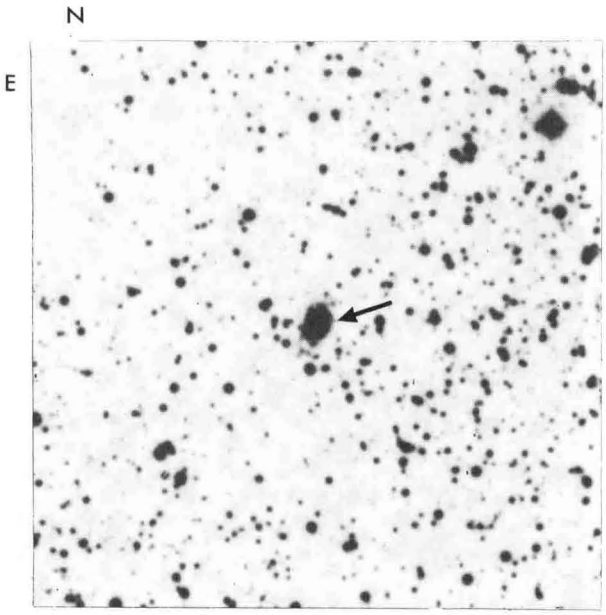
068.7+14.8 SP 4-1 POS E1434



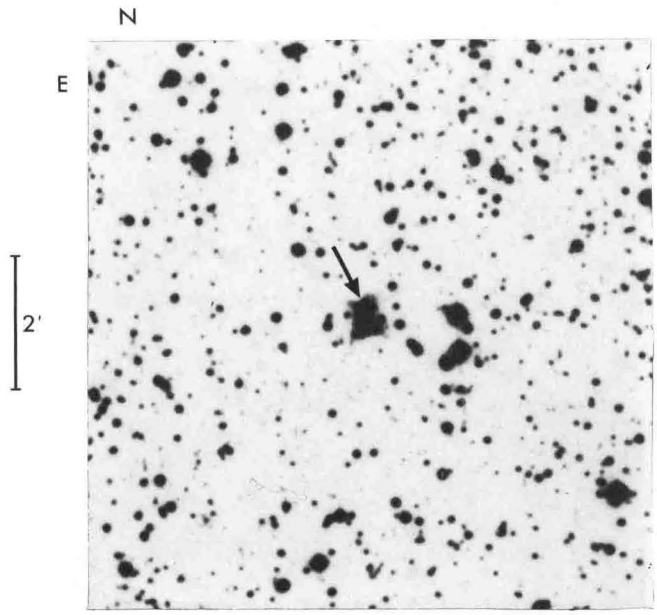
068.7+03.0 PC 23 POS O 771



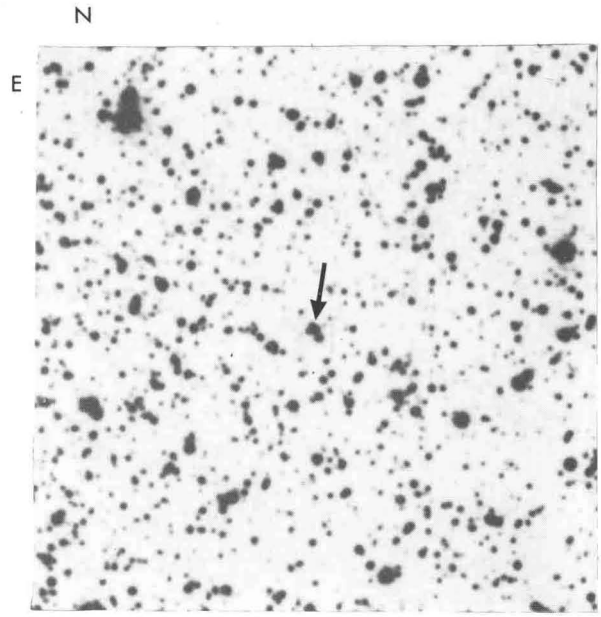
068.7+01.9 K 4-41 POS E 771



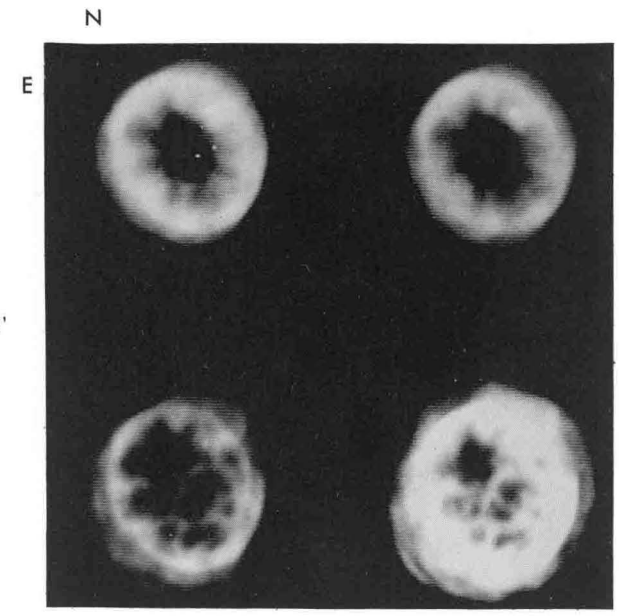
068.8 - 00.0 M 1-75 POS E 771



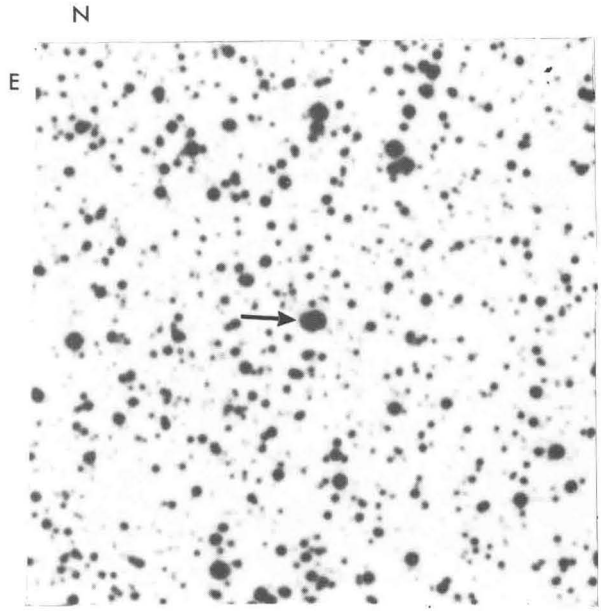
069.2+03.8 K 3-46 POS E 530



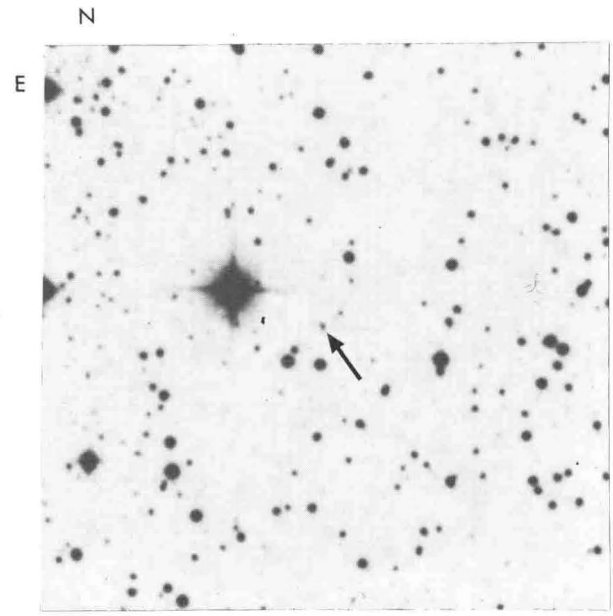
069.2+02.8 K 3-49 POS E 771



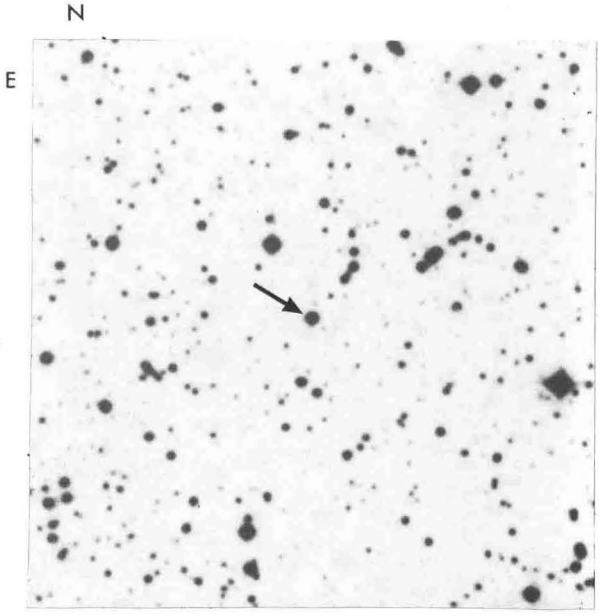
069.4-02.6 NGC 6894 BALICK 87



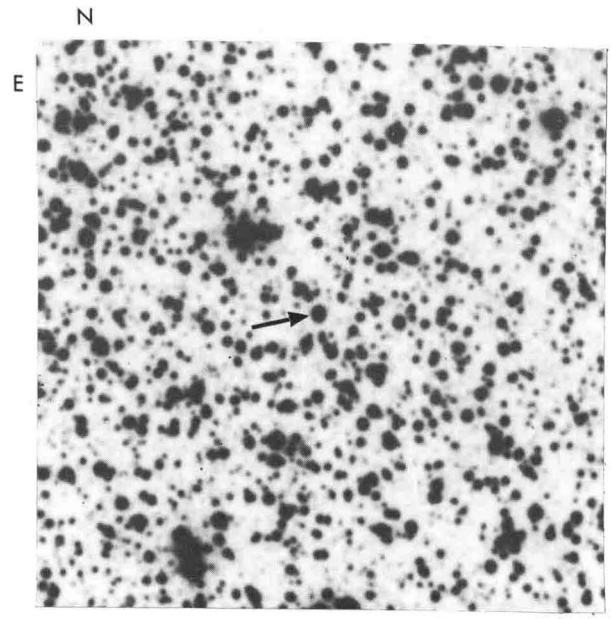
069.6-03.9 K 3-58 POS E 332



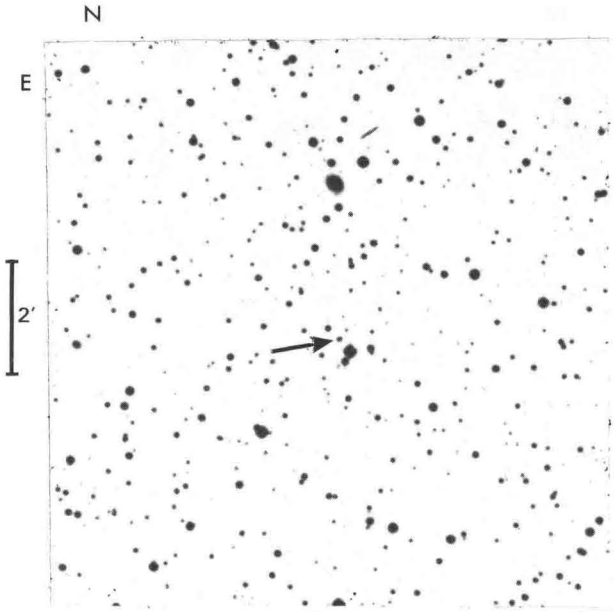
069.7+00.0 K 3-55 POS O 771



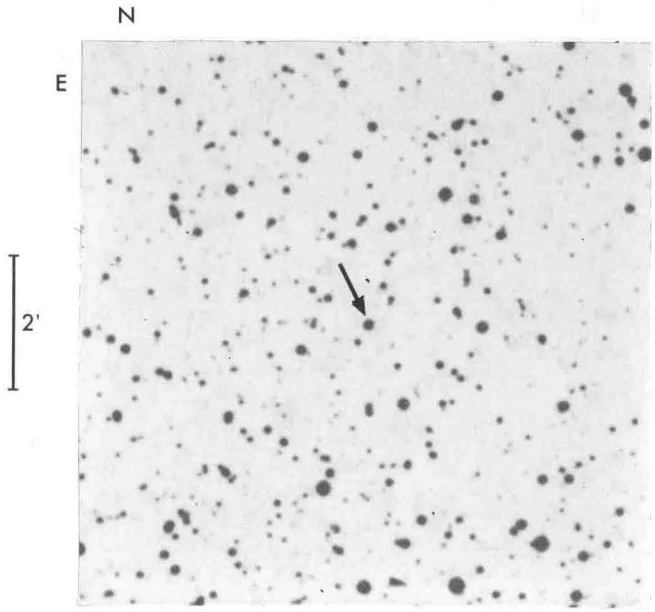
071.6-02.3 M 3-35 POS E 332



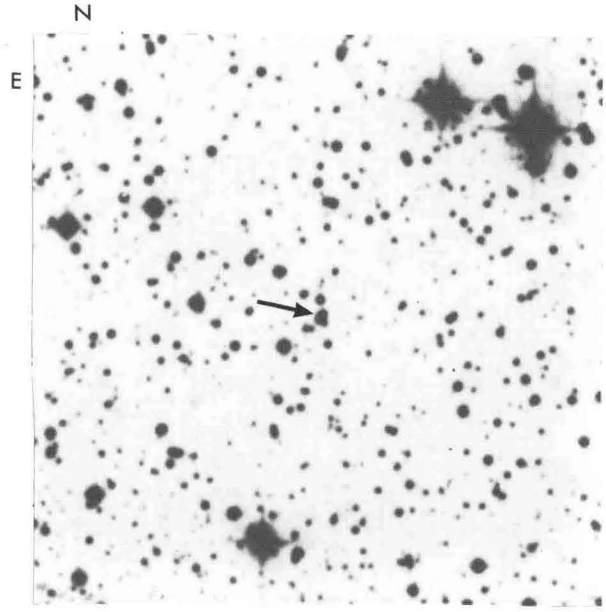
072.1+00.1 K 3-57 POS E 200



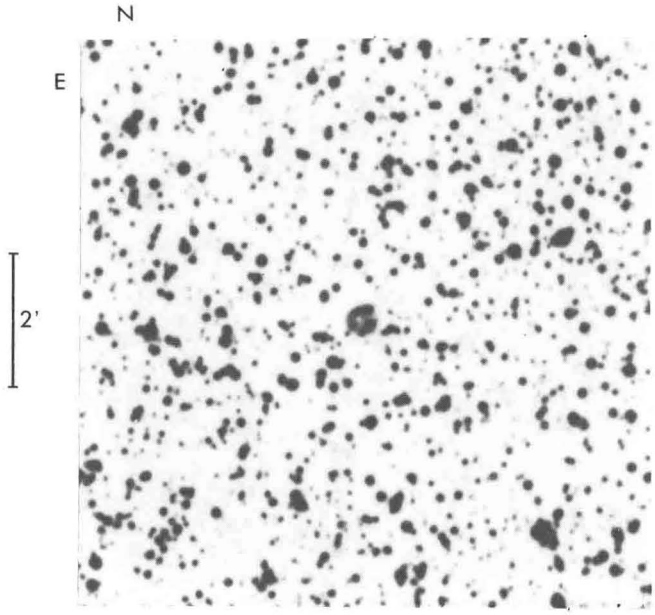
072.7-17.1 A 74 POS E 290



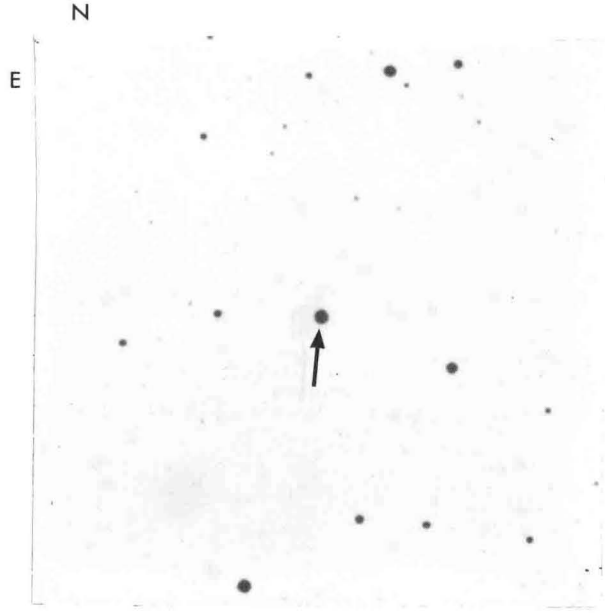
073.0-02.4 K 3-76 POS E 332



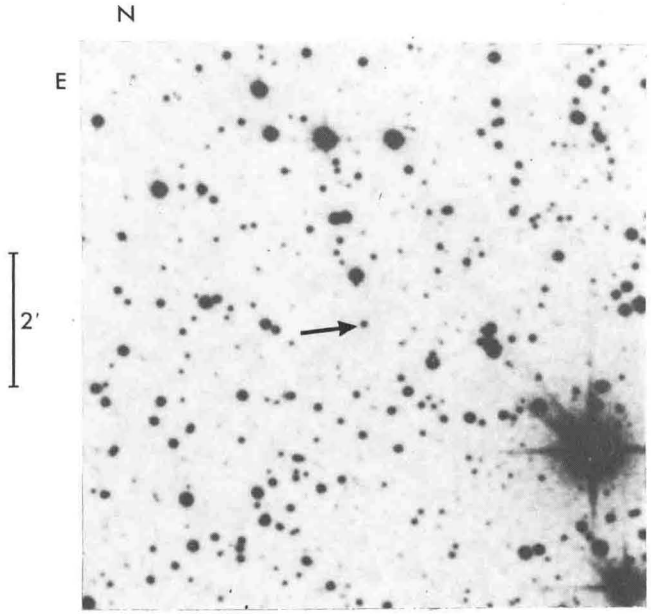
074.5+02.1 NGC 6881 POS O 200



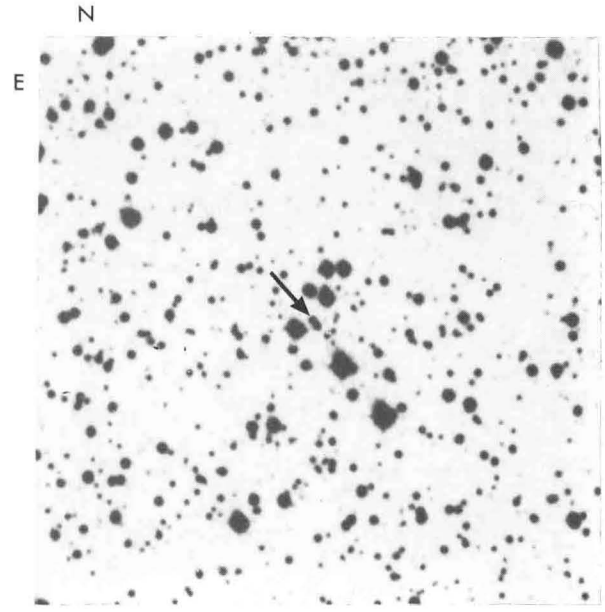
075.6+04.3 Anon. 20H02m POS E1145



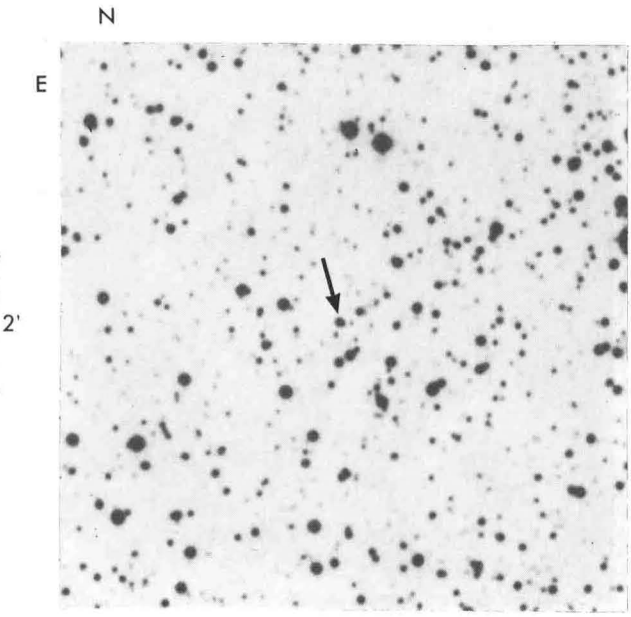
075.7+35.8 Sa 4-1 POS E1370



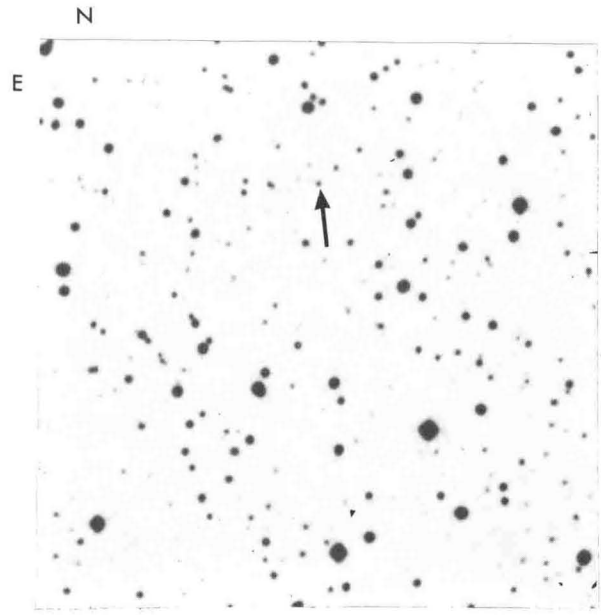
076.3+01.1 A 69 POS E 200



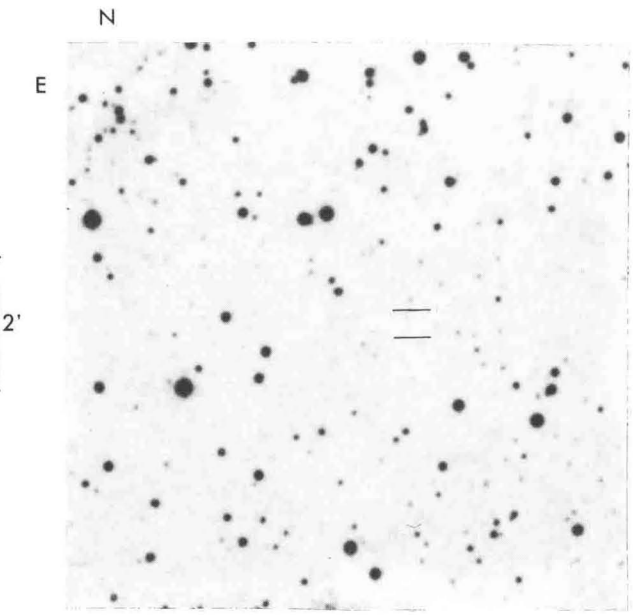
076.4+01.8 KjPn 3 POS E 200



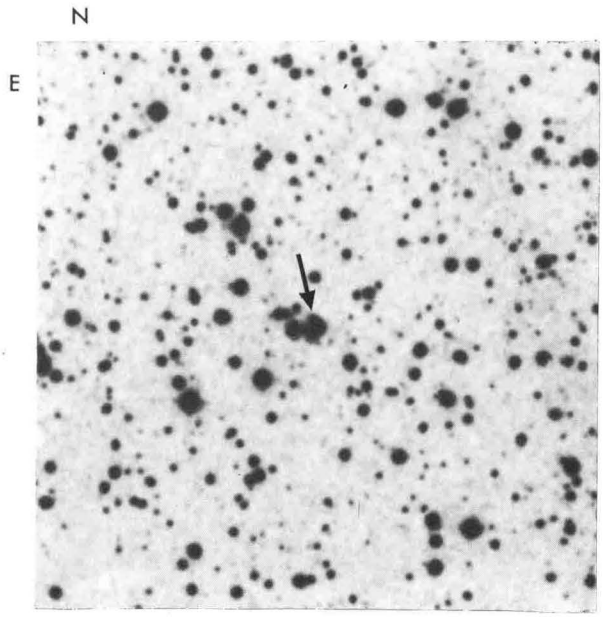
077.5+03.7 KjPn 1 POS O1145



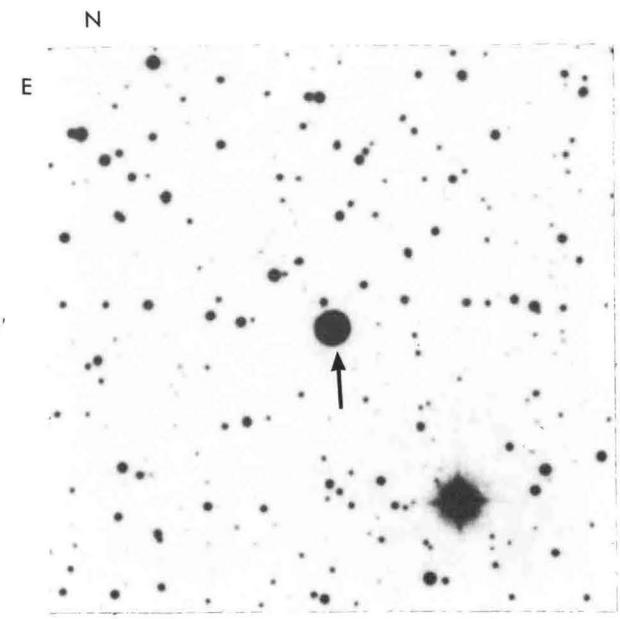
077.6+14.7 A 61 POS E 814



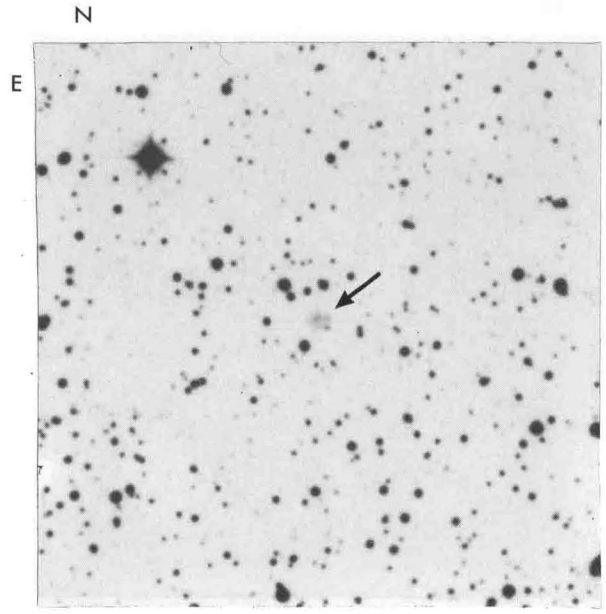
077.7+03.1 KjPn 2 POS O1145



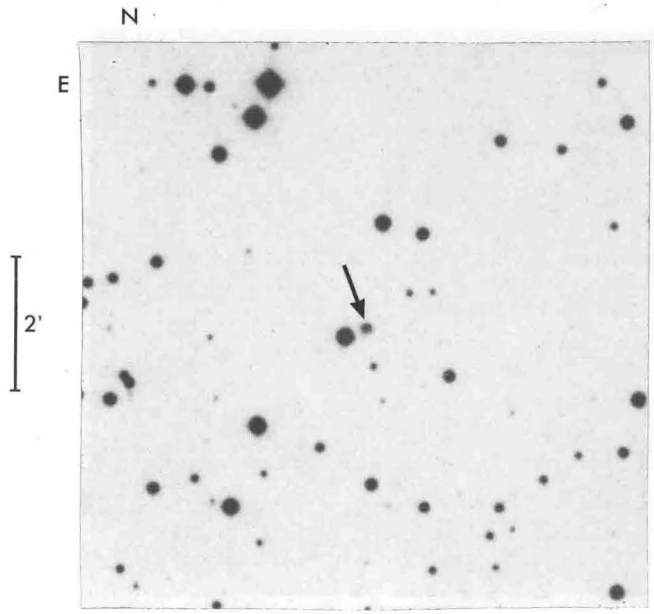
078.3-02.7 K 4-53 POS E 288



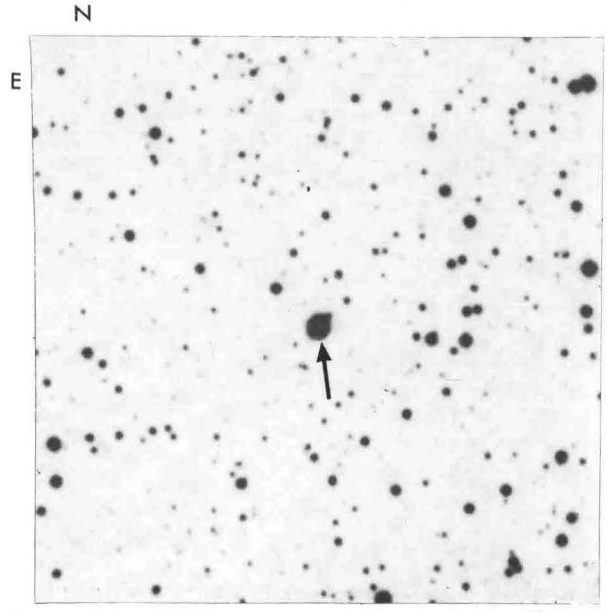
078.5+18.7 A 50 POS E 770



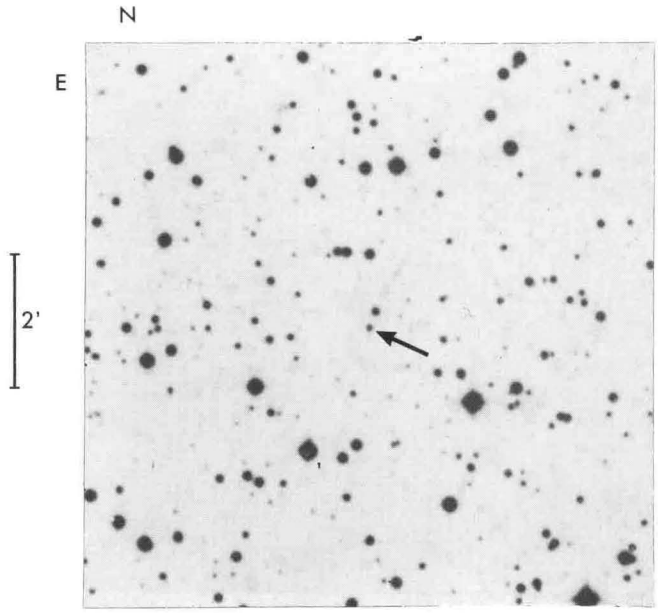
078.6+05.2 Dd 1 POS O1145



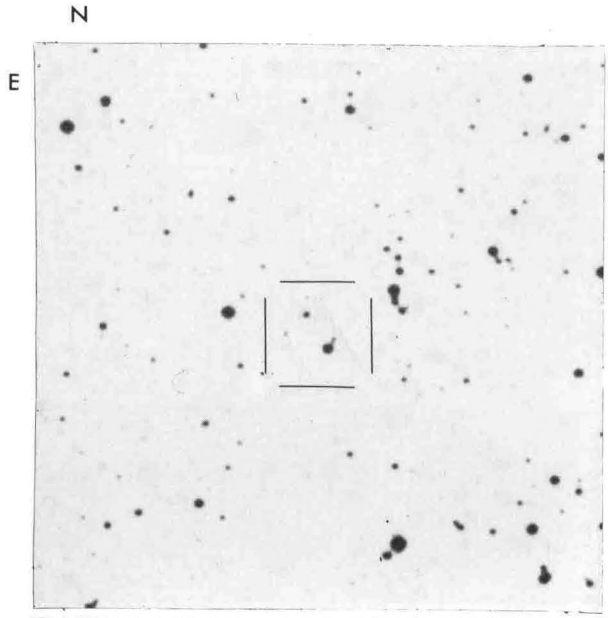
078.9+00.7 Sd 1 POS O 754



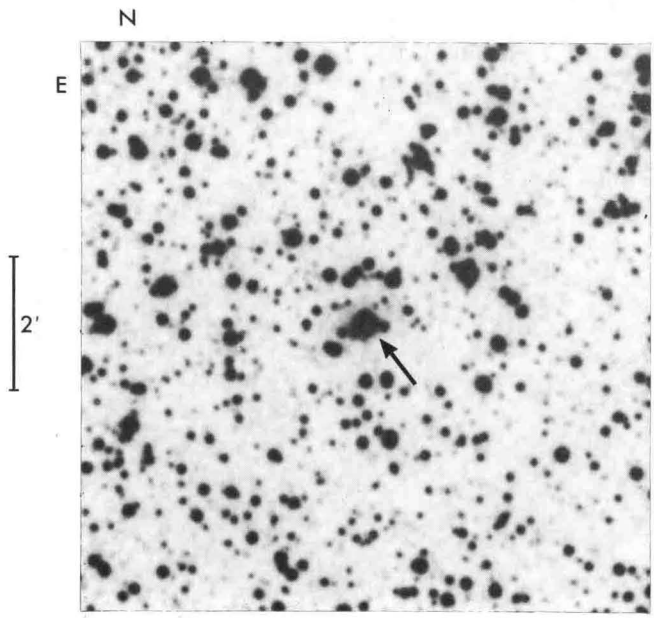
079.6+05.8 M 4-17 POS O1145



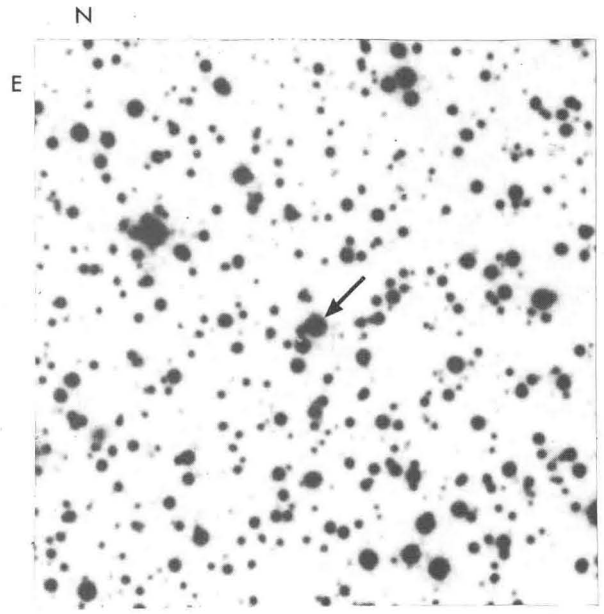
079.9+06.4 K 3-56 POS O1145



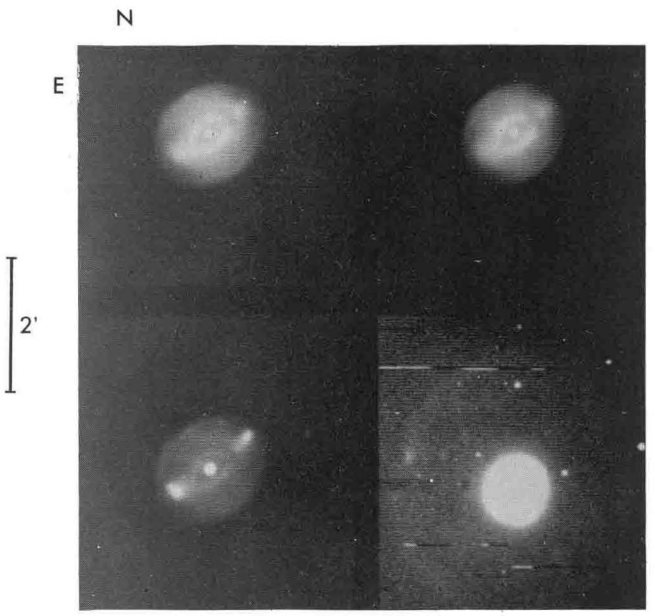
081.2-14.9 A 78 POS E1212



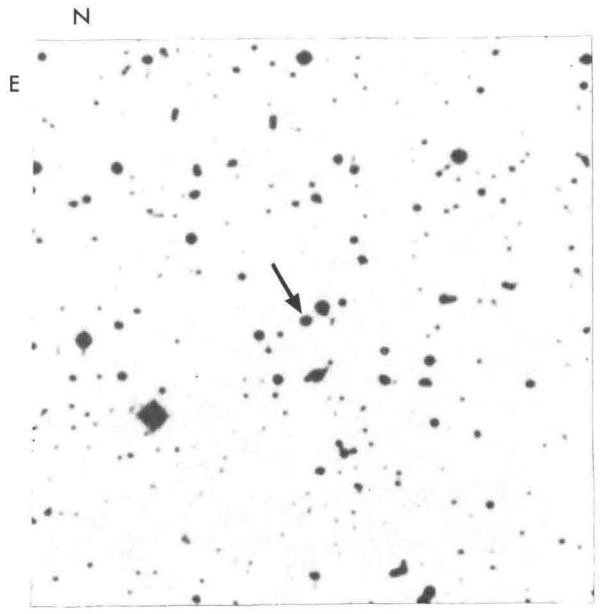
082.1+07.0 NGC 6884 POS E 283



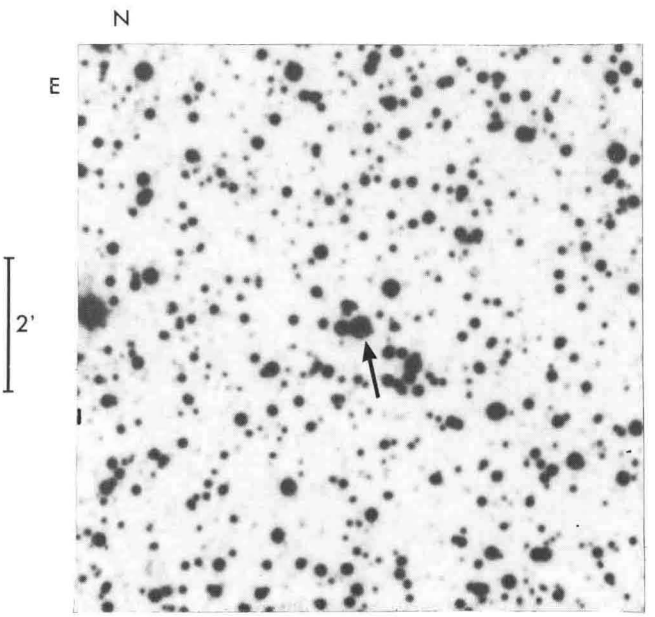
082.5+11.3 NGC 6833 POS E 283



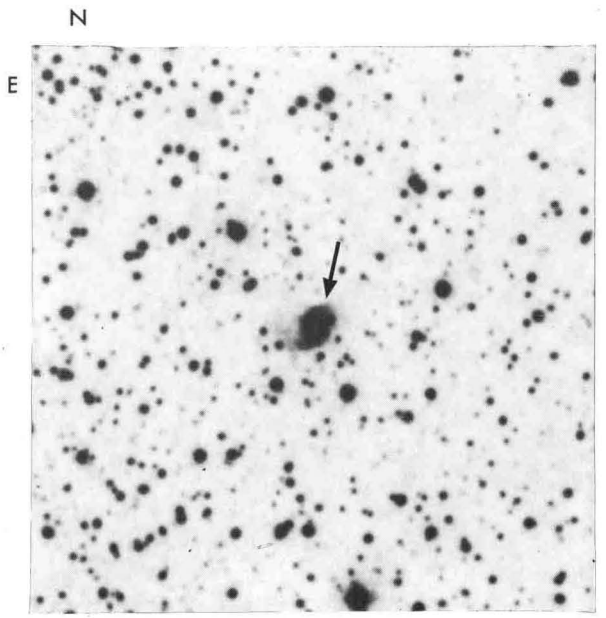
083.5+12.7 NGC 6826 BALICK 87



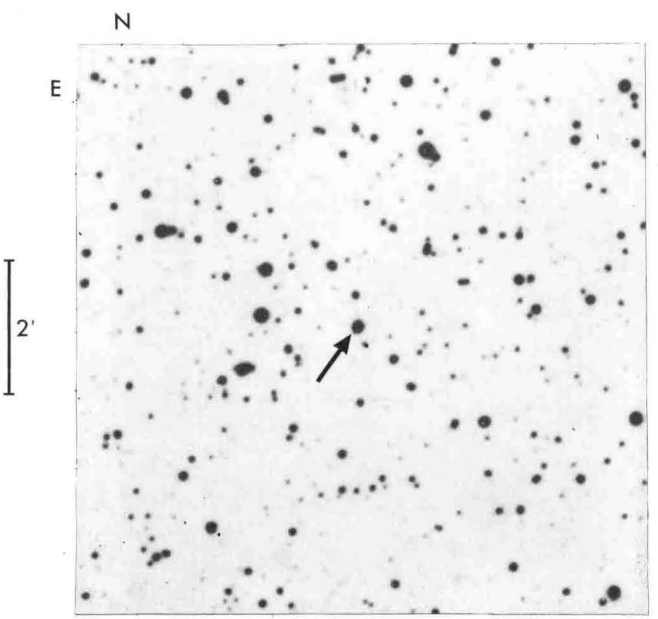
083.9-08.4 K 3-81 POS E 269



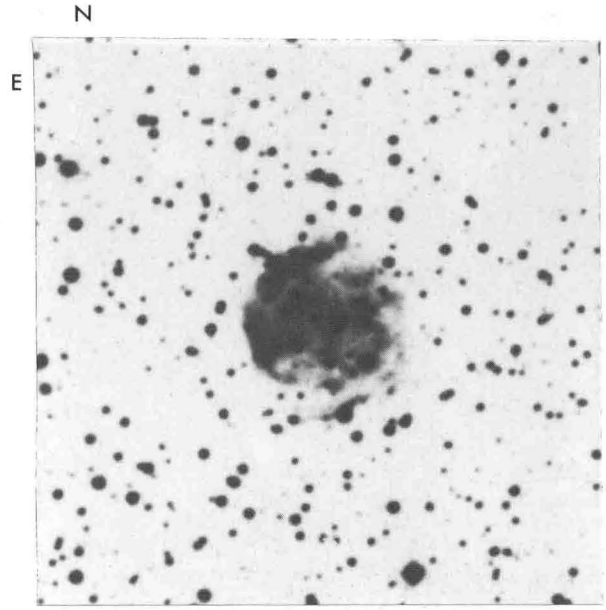
084.0+09.5 K 3-73 POS E 283



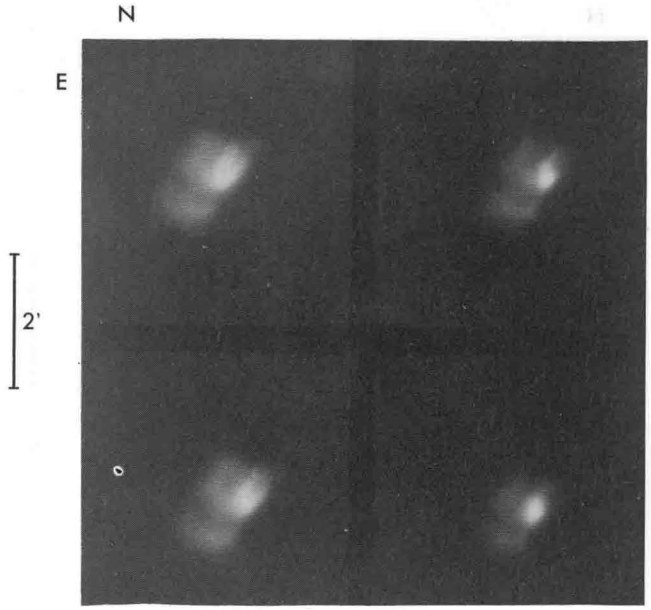
084.2+01.0 K 4-55 POS E 754



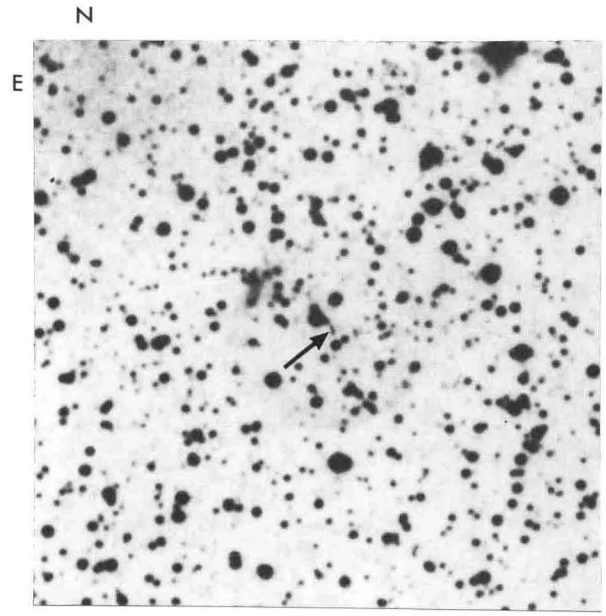
084.2-04.2 K 3-80 POS E1133



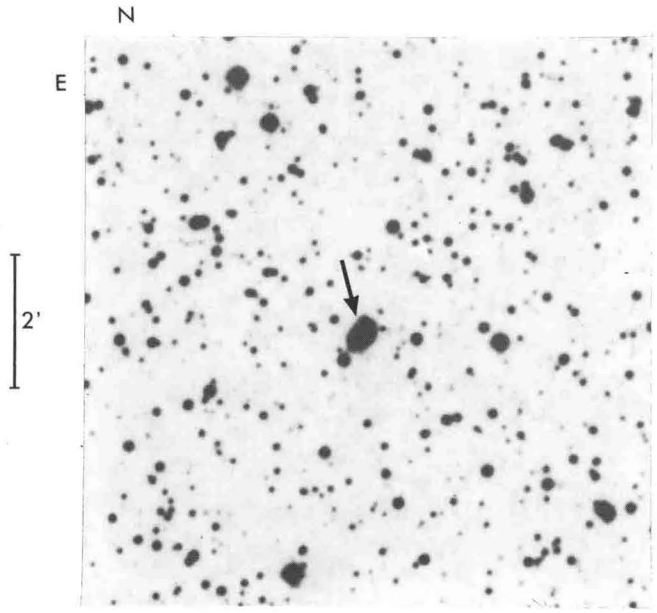
084.9+04.4 A 71 POS E1099



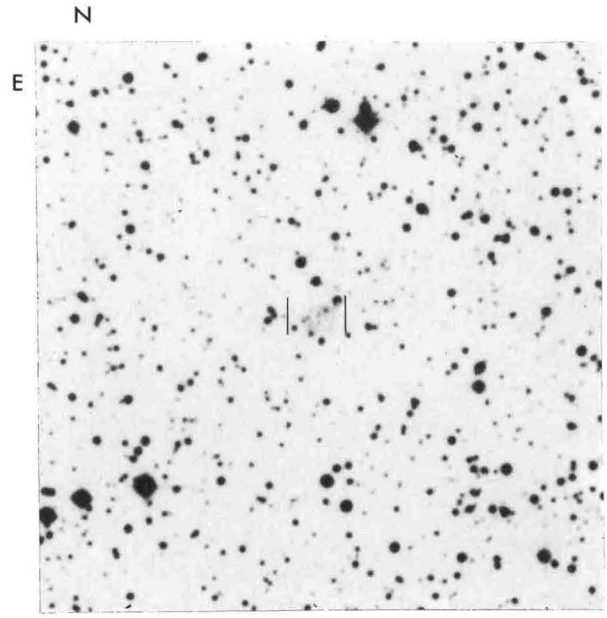
084.9-03.4 NGC 7027 BALICK 87



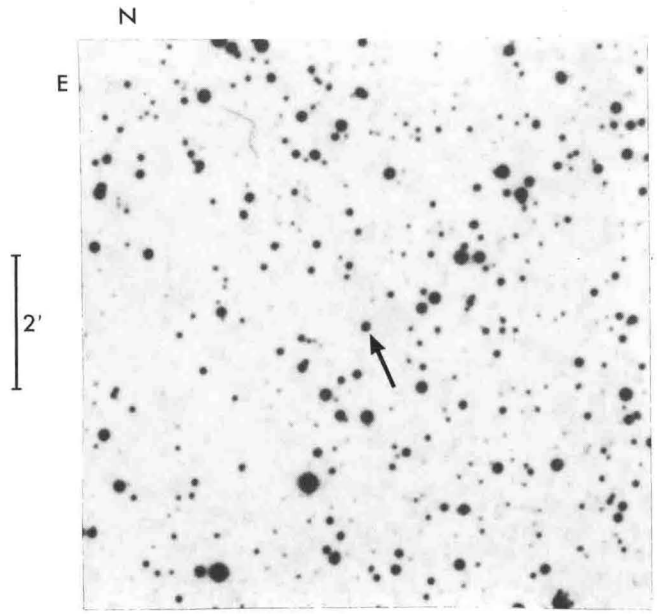
086.1+05.4 We 1- 10 POS E1099



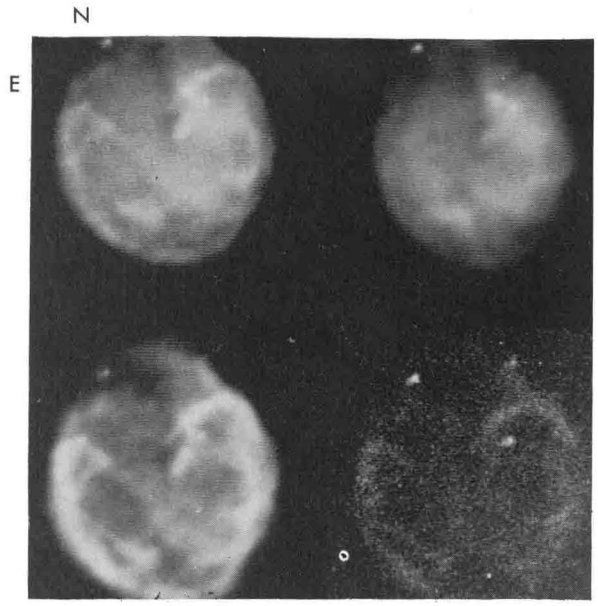
086.5-08.8 Hu 1-2 POS E 806



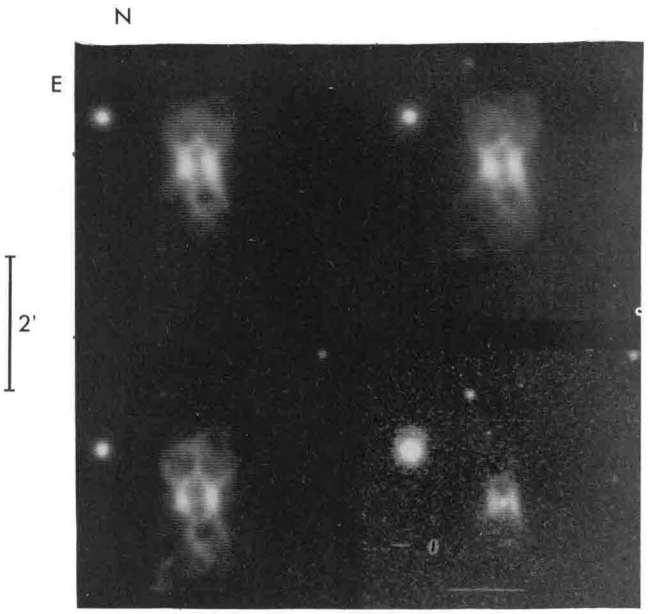
087.4-03.8 We 2-245 POS E1133



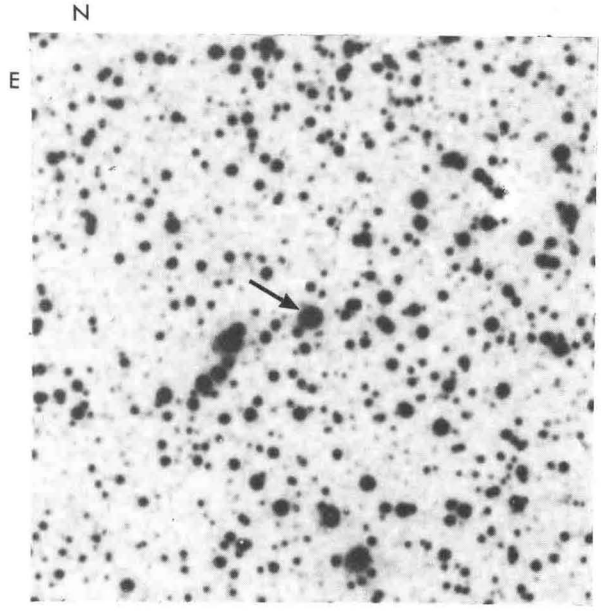
088.7+04.6 K 3-78 POS E1099



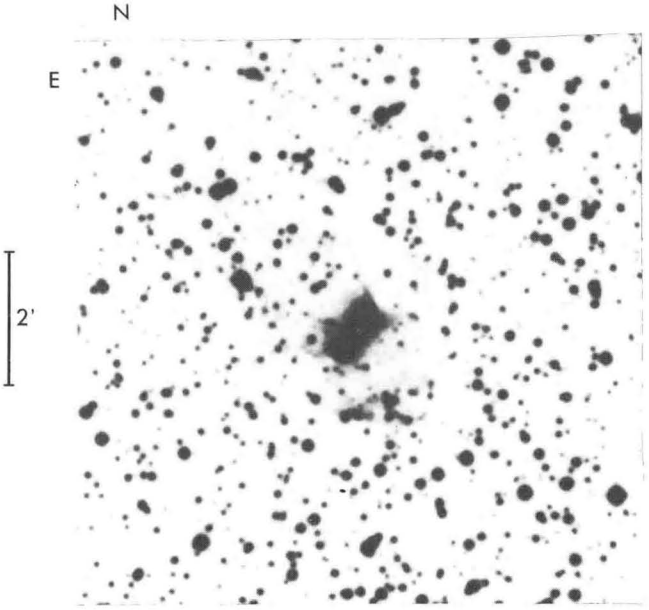
088.7-01.6 NGC 7048 BALICK 87



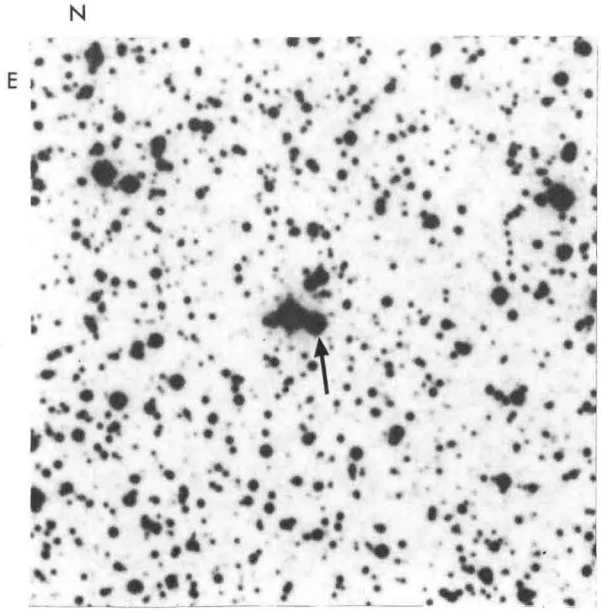
089.0+00.3 NGC 7026 BALICK 87



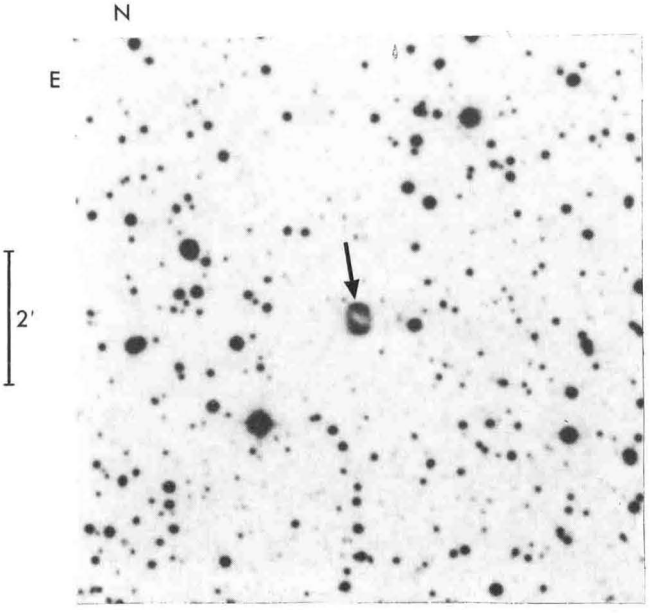
089.3-02.2 M 1-77 POS E 533



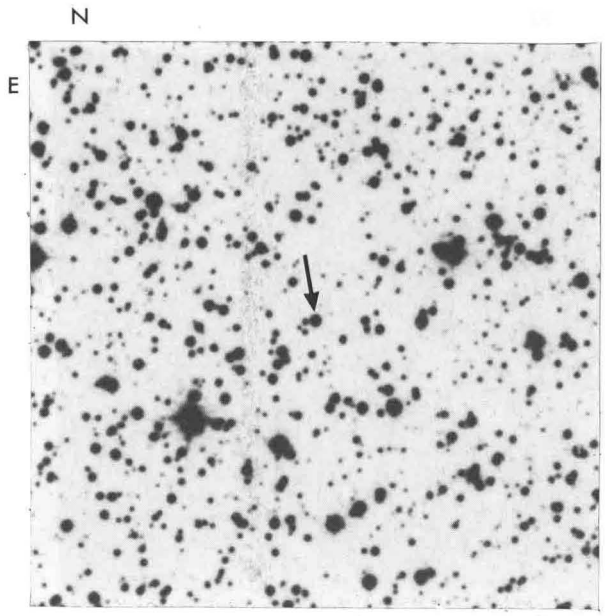
089.8 - 00.6 Sh 1- 89 POS E 533



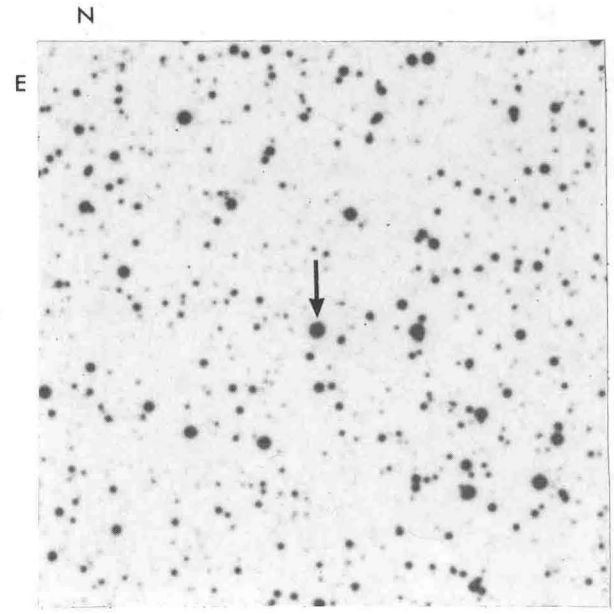
089.8-05.1 IC 5117 POS E 806



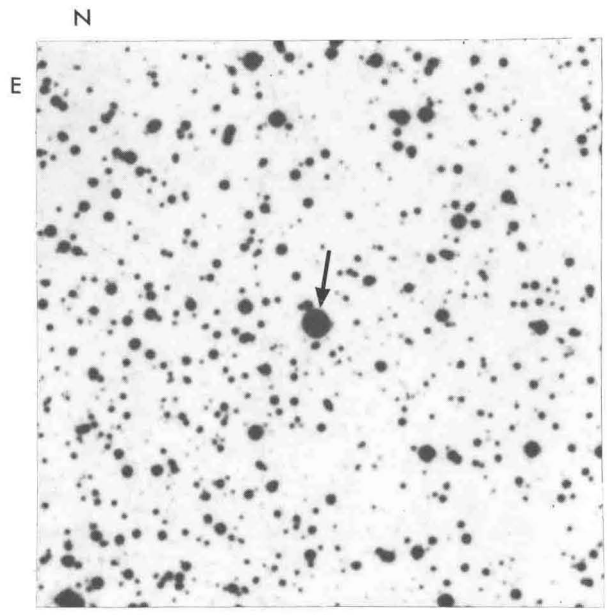
091.6+01.8 We 1- 11 POS E 533



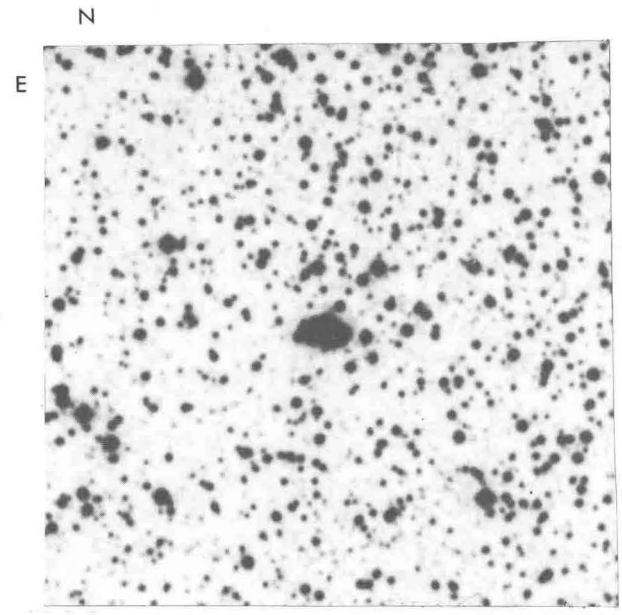
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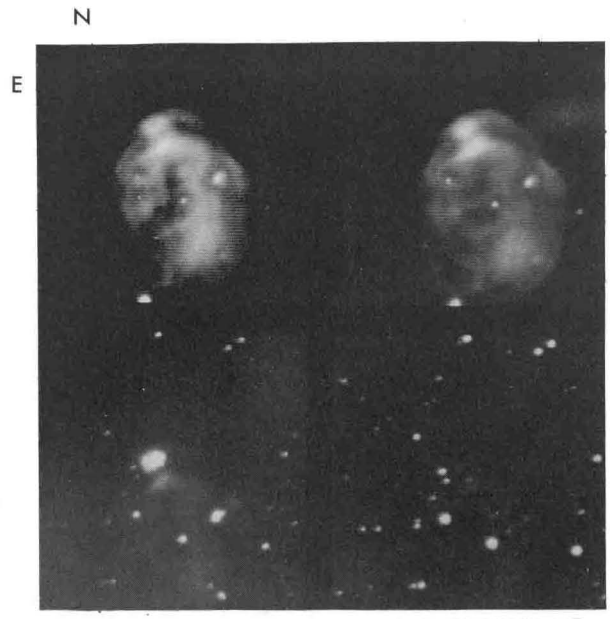
092.1+05.8 K 3-79 POS E 598



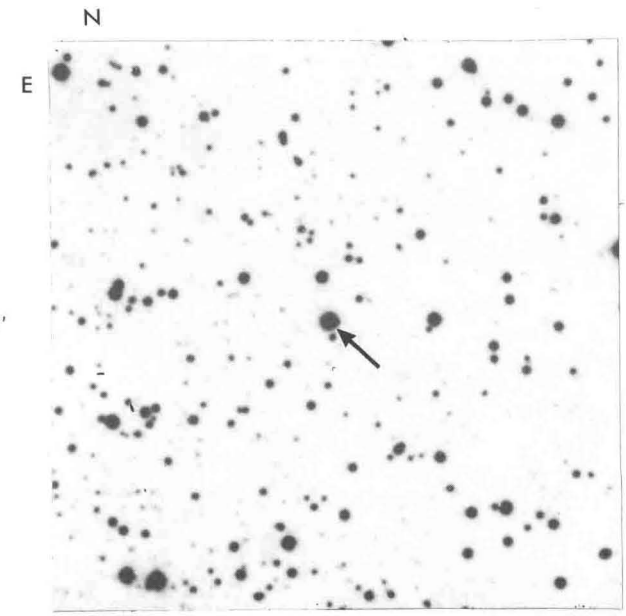
093.3 -00.9 K 3-82 POS E 589



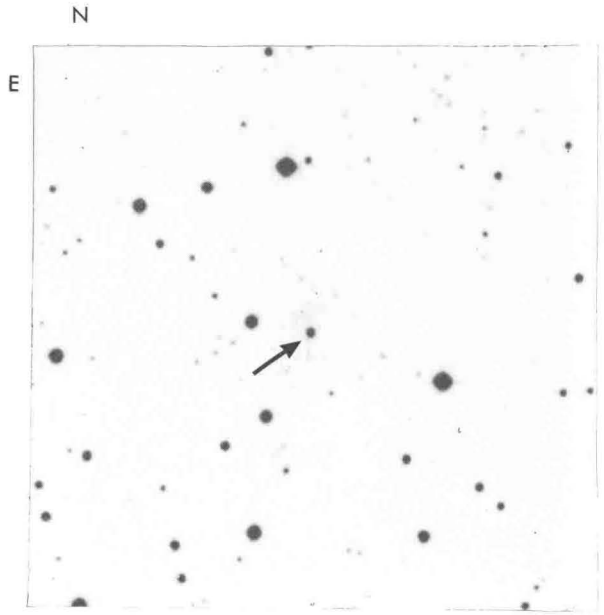
093.3-02.4 M 1-79 POS E 589



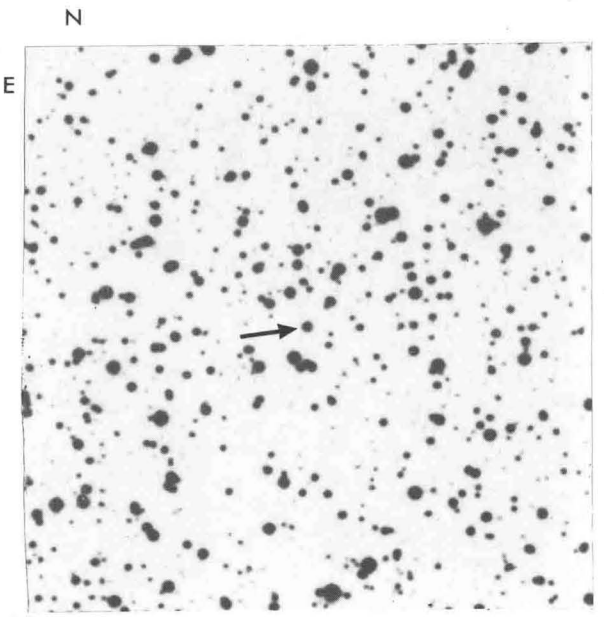
093.4+05.4 NGC 7008 BALICK 87



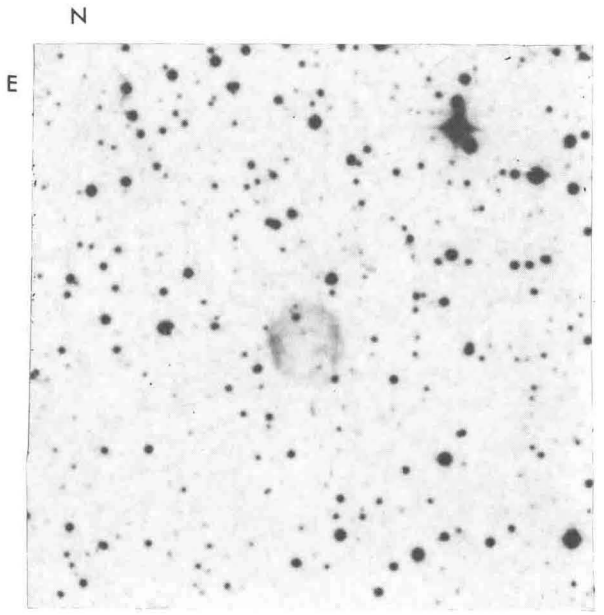
093.5+01.4 M 1-78 POS E1496



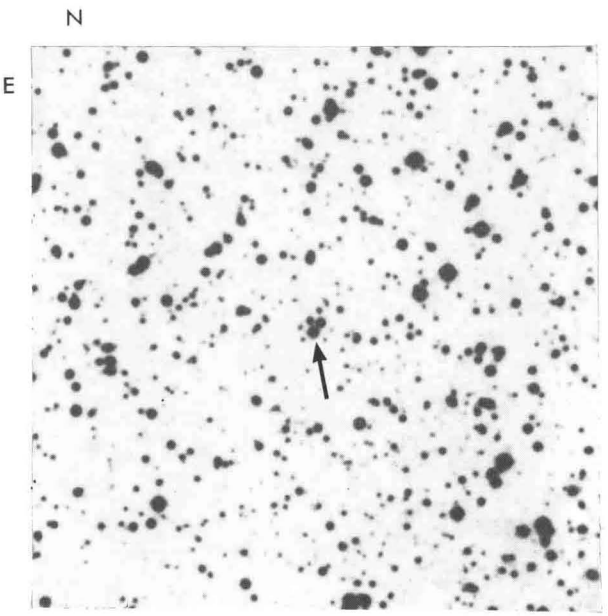
094.0+27.4 K 1-16 POS E 550



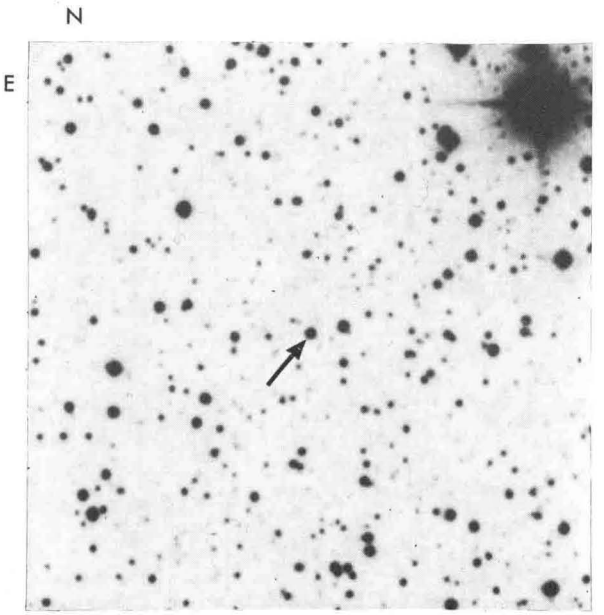
094.5 - 00.8 K 3-83 POS E 589



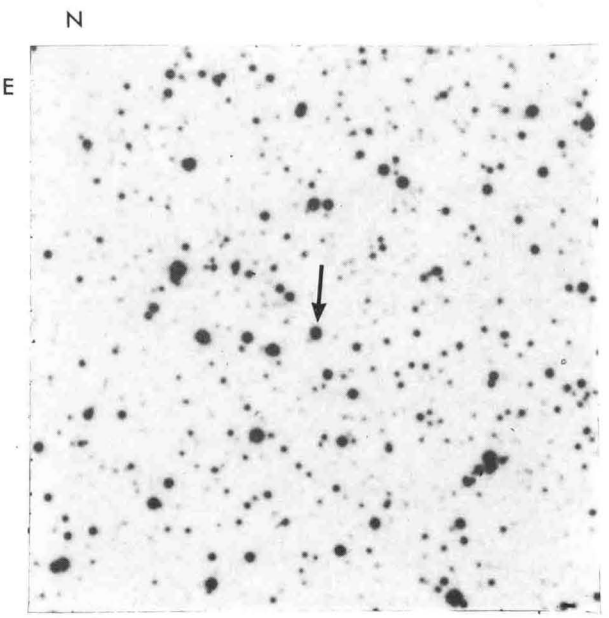
095.2+07.8 A 73 POS E 598



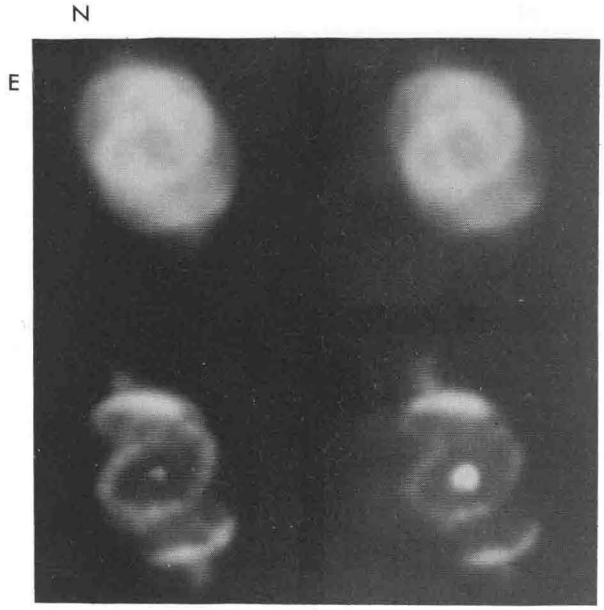
095.1-02.0 M 2-49 POS E 589



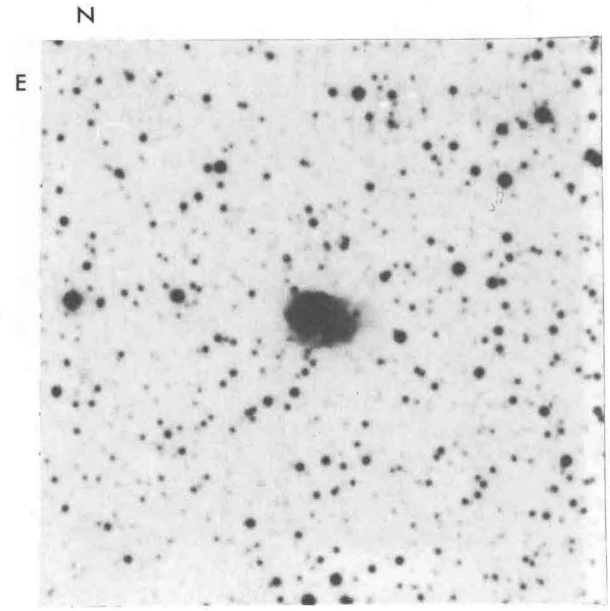
095.2+00.7 K 3-62 POS E1489



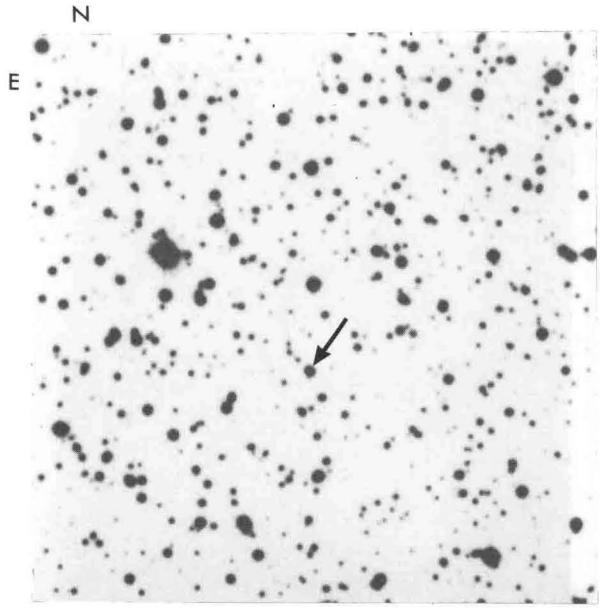
096.3+02.3 K 3-61 POS E1496



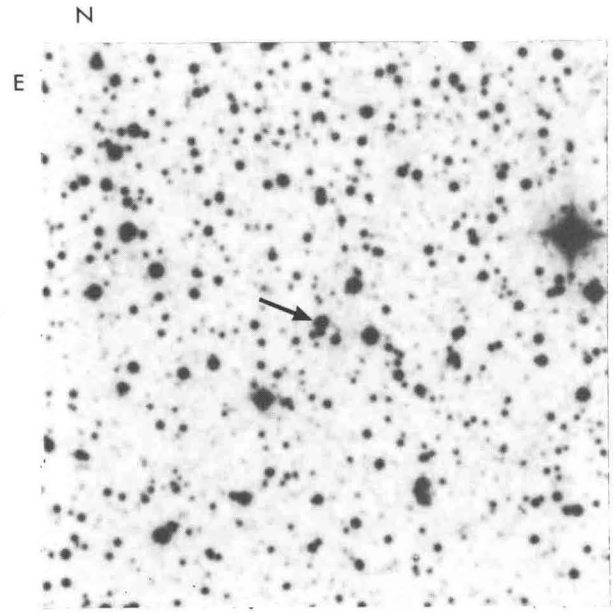
096.4+29.9 NGC 6543 BALICK 87



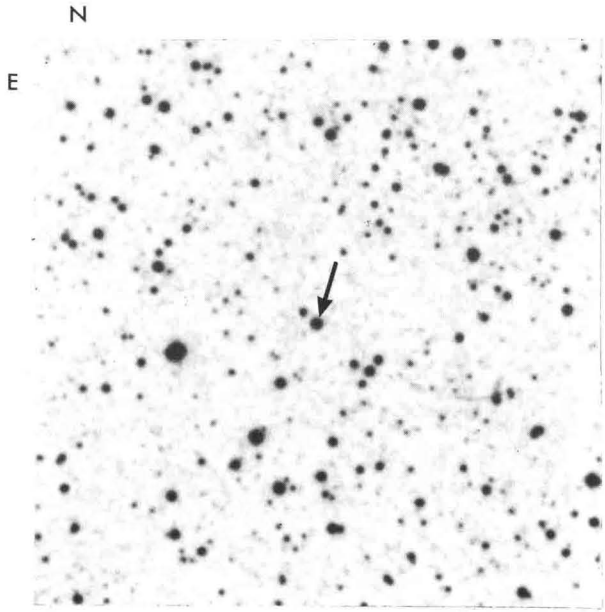
097.5+03.1 A 77 POS E1496



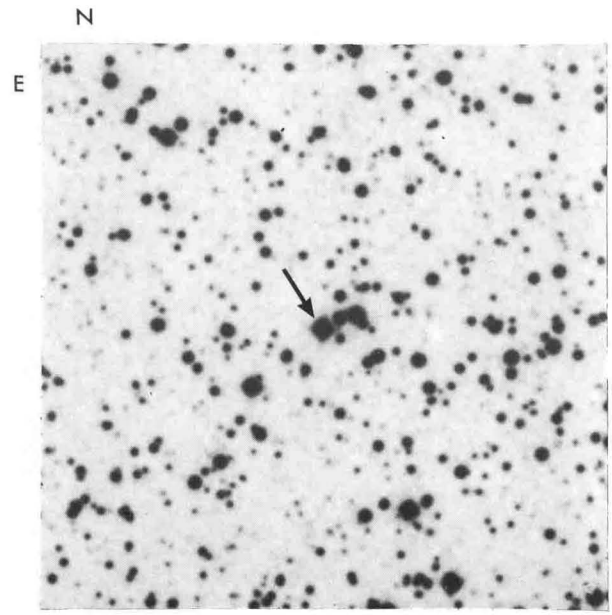
097.6-02.4 M 2-50 POS E 588



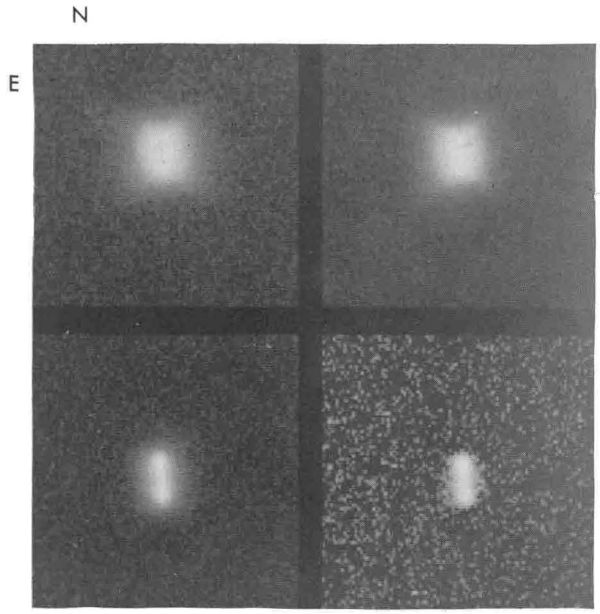
098.1+02.4 K 3-63 POS E1496



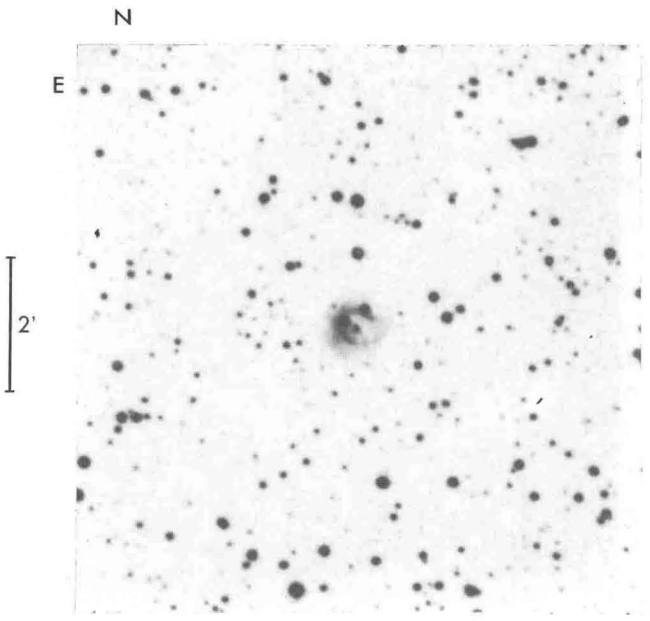
098.2+04.9 K 3-60 POS E 540



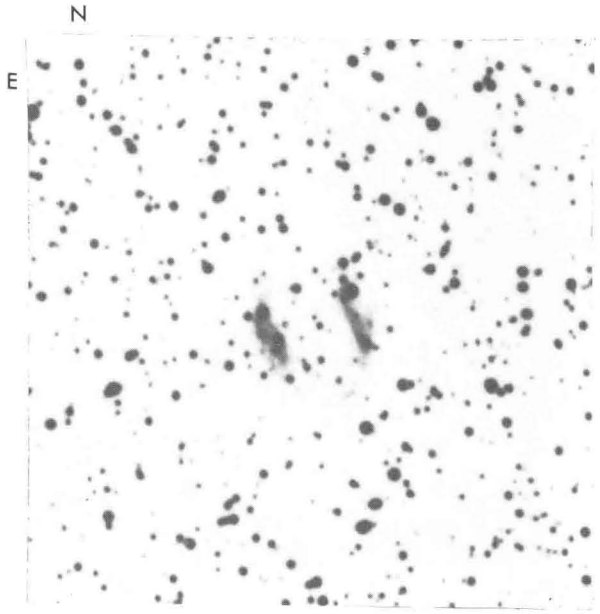
100.0-08.7 Me 2-2 POS E 590



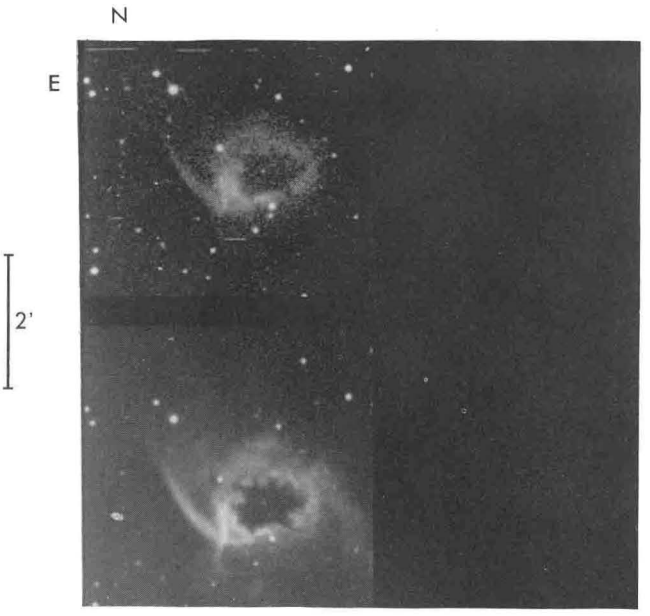
100.6-05.4 IC 5217 BALICK 87



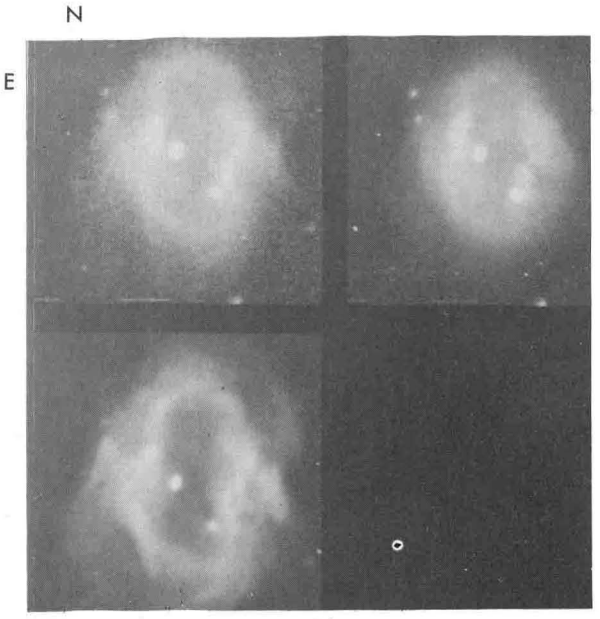
101.8+08.7 A 75 POS E 540



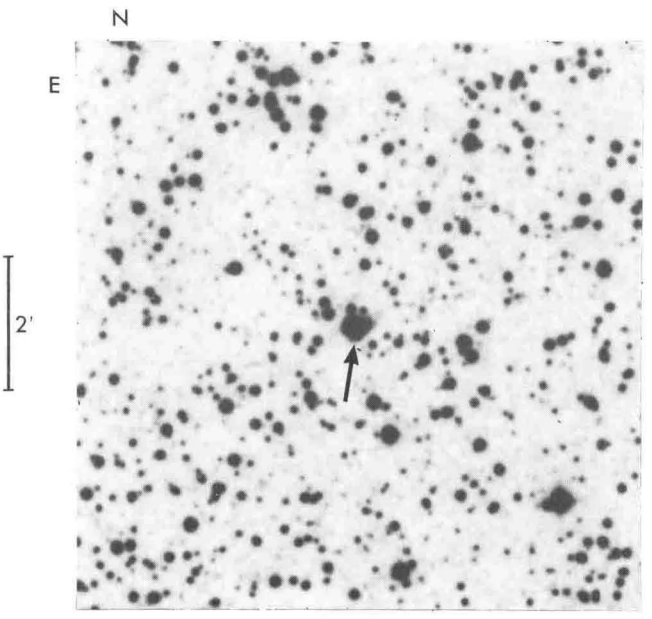
102.8-05.0 A 80 POS E 588



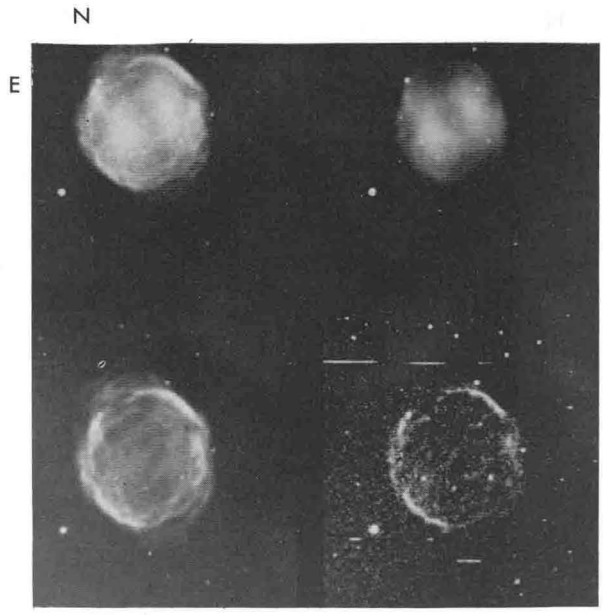
102.9-02.3 A 79 BALICK 87



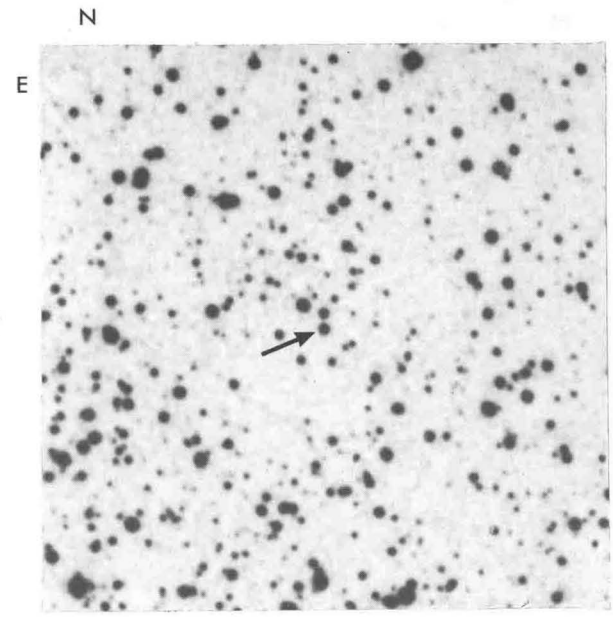
103.2+00.6 M 2-51 BALICK 87



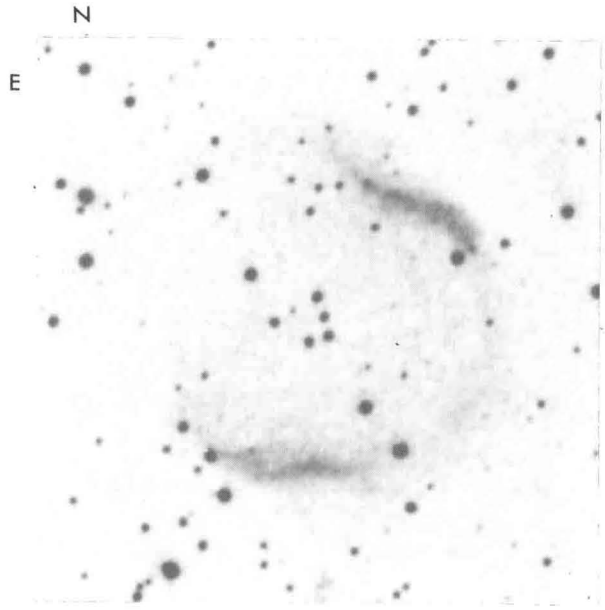
103.7+00.4 M 2-52 POS E 588



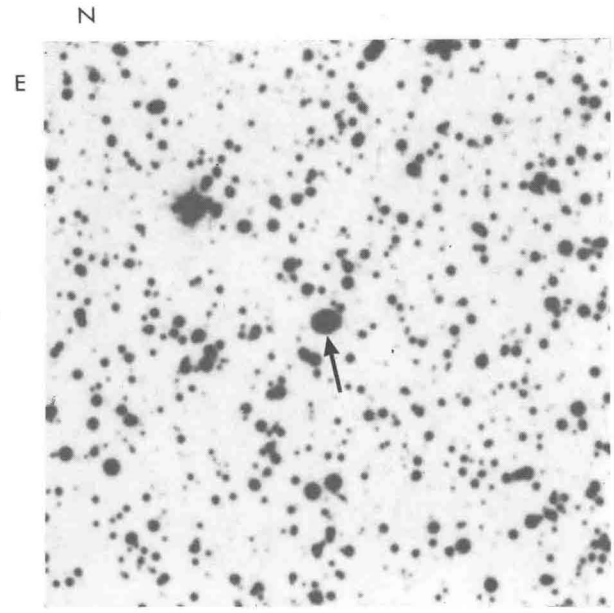
104.1+07.9 NGC 7139 BALICK 87



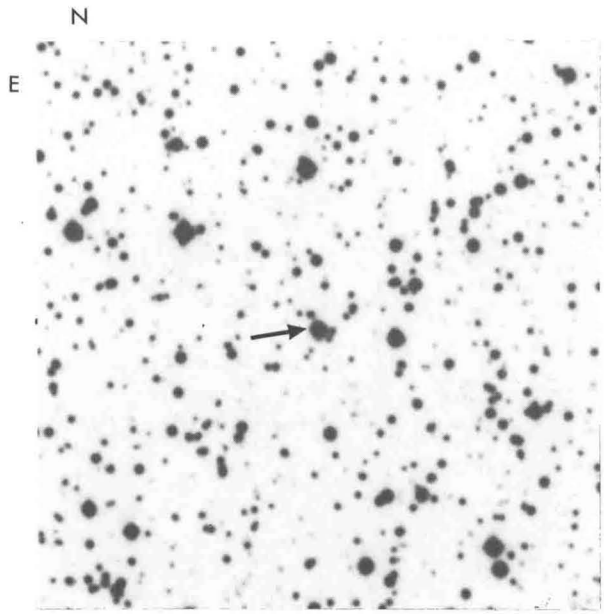
104.1+01.0 Bl 2- 1 POS E 594



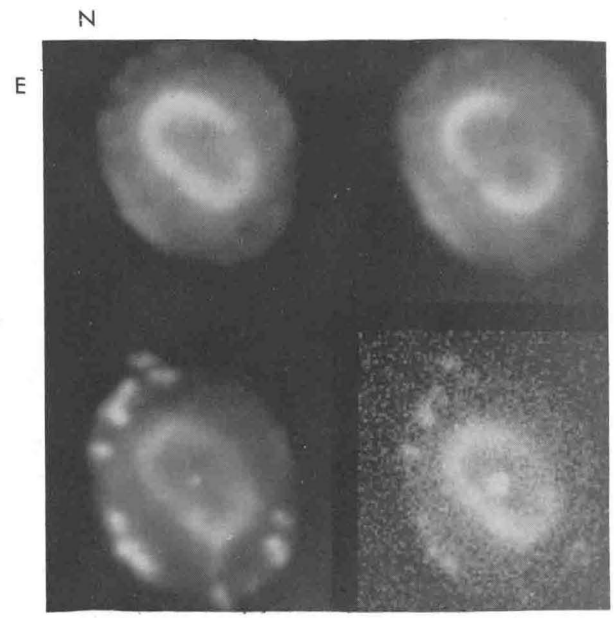
104.2-29.6 Ju 1 POS E 914



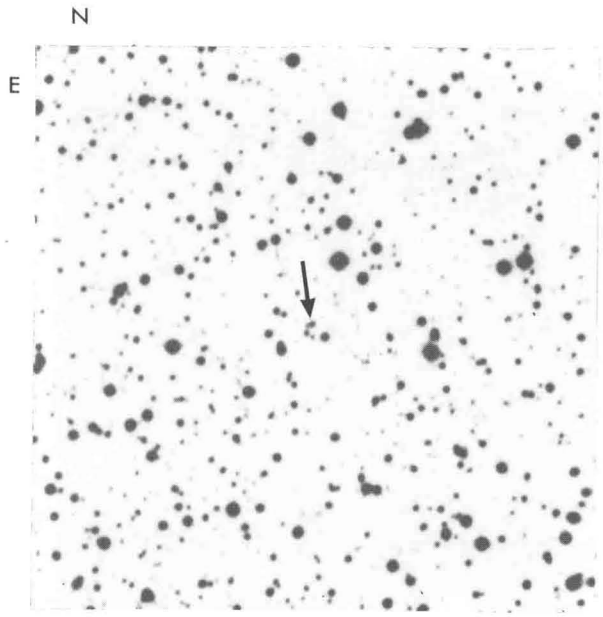
104.4-01.6 M 2-53 POS E 588



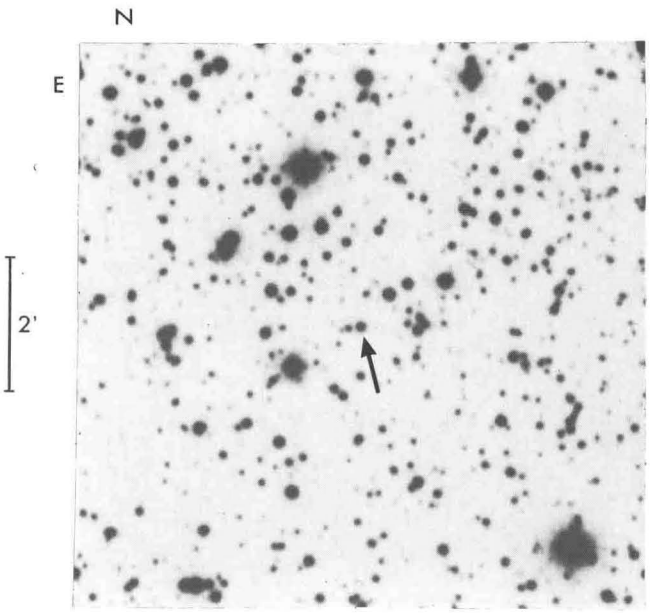
104.8-06.7 M 2-54 POS E 872



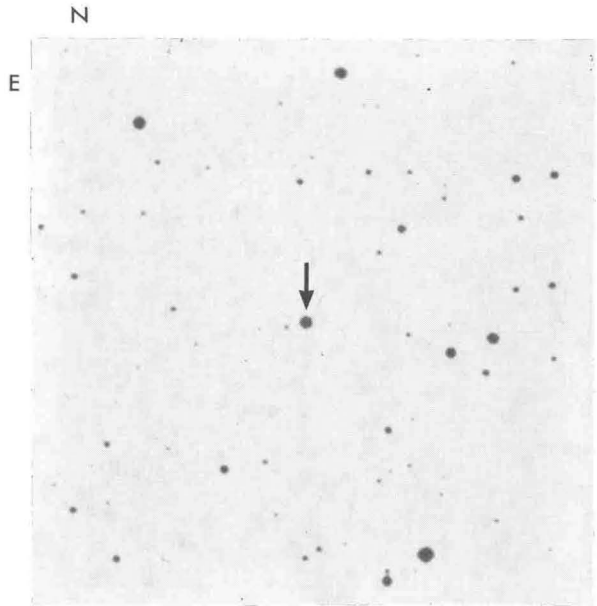
106.5-17.6 NGC 7662 BALICK 87



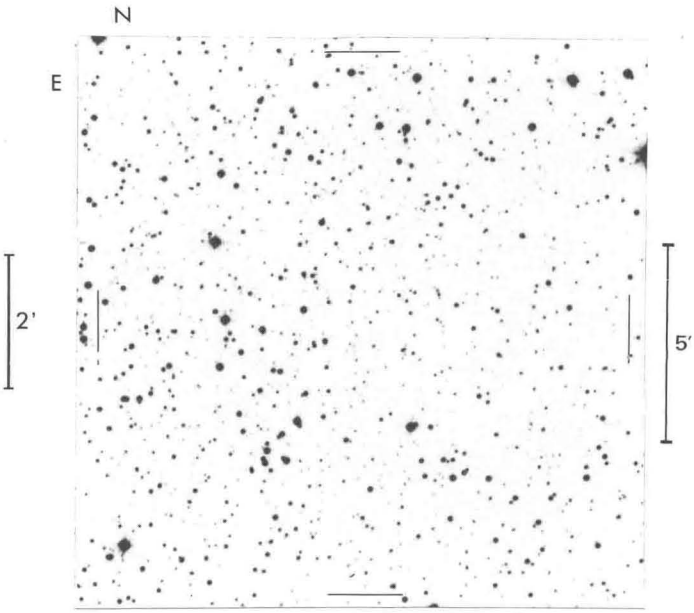
107.4 - 00.6 K 4-57 POS E 874



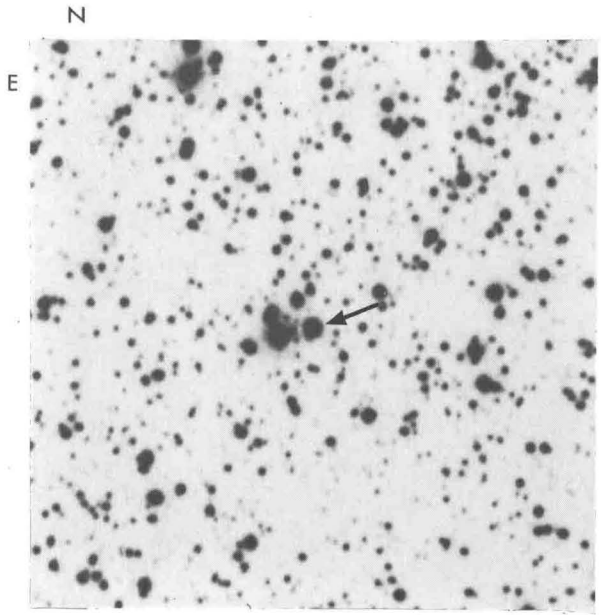
107.4-02.6 K 3-87 POS E 872



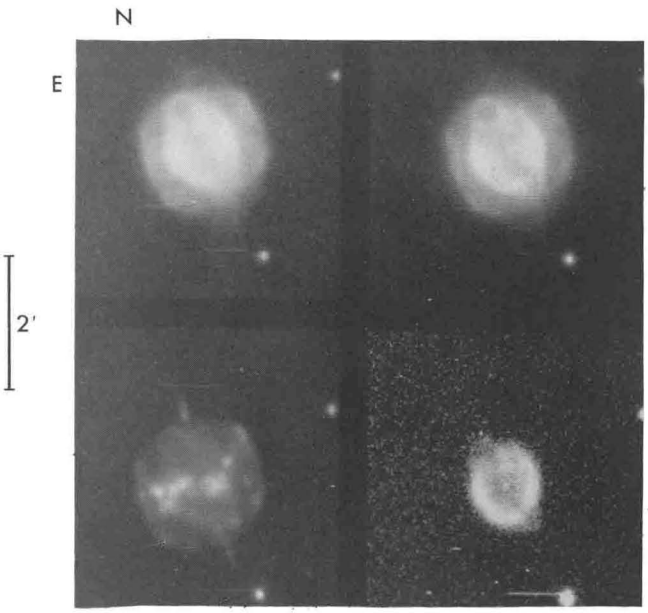
107.6-13.3 Vy 2- 3 POS E1162



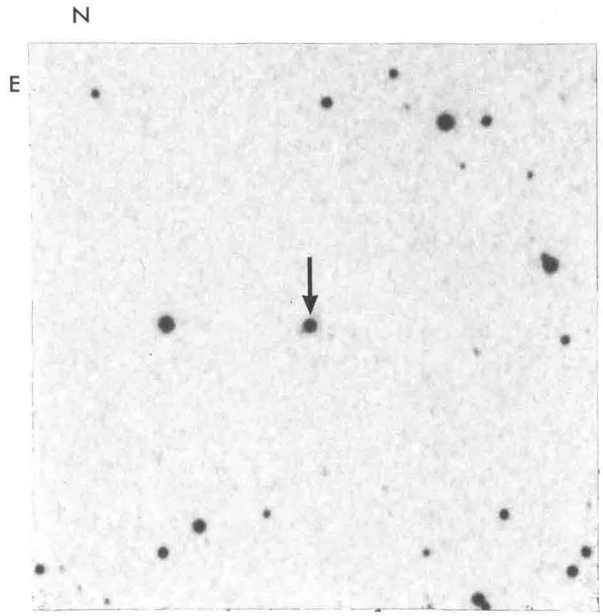
107.7+07.8 IsWe 2 POS E 553



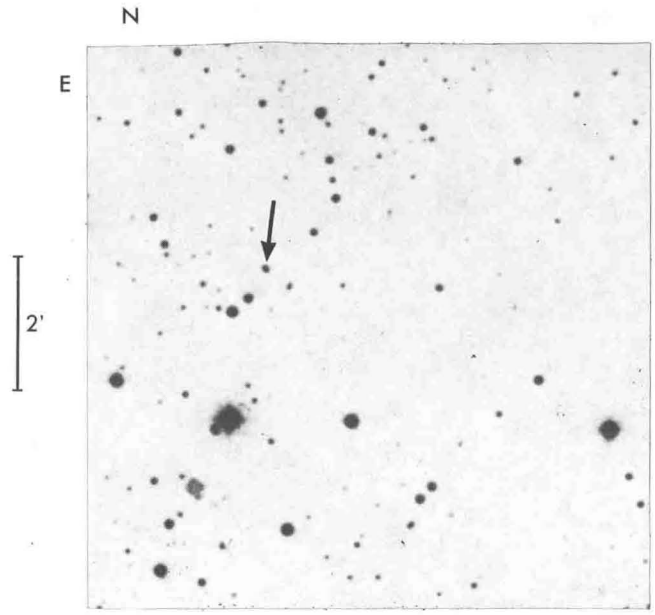
107.7-02.2 M 1-80 POS E 872



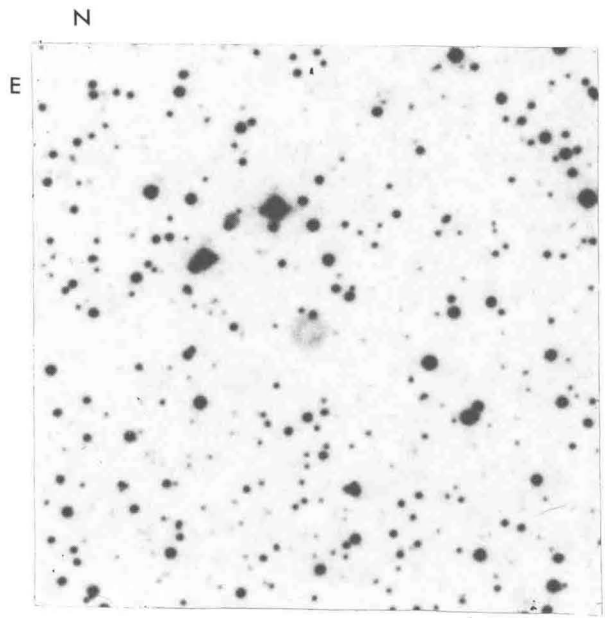
107.8+02.3 NGC 7354 BALICK 87



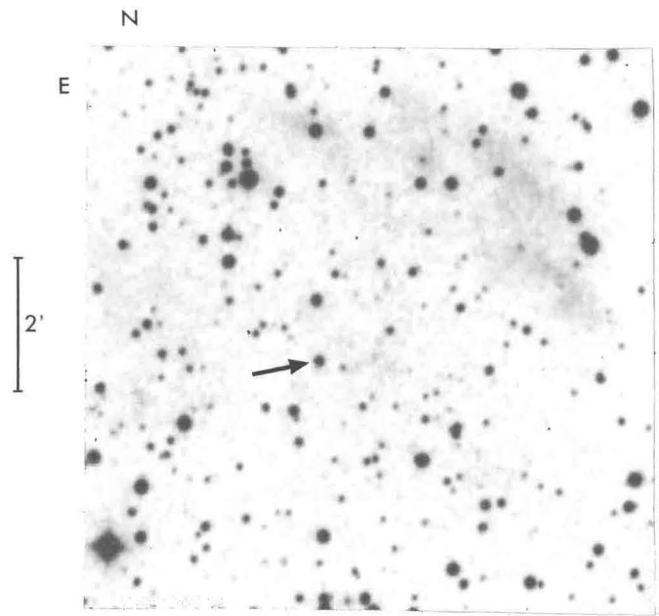
108.4-76.1 BoBn 1 POS E1203



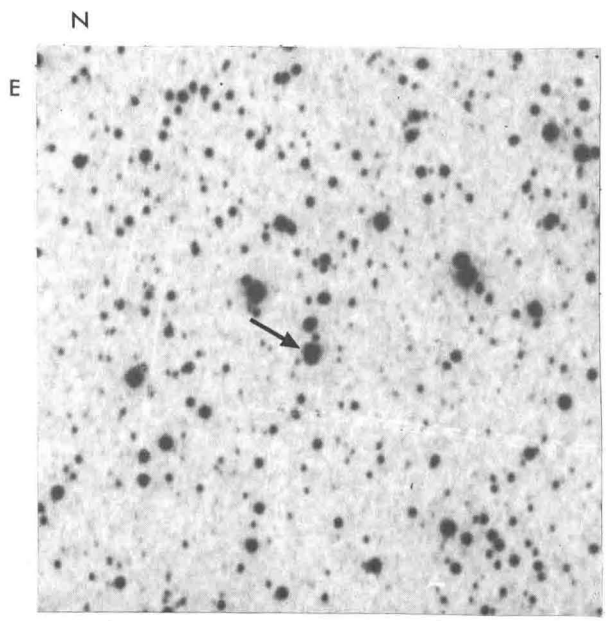
110.1+01.9 PM 1-339 POS E 874



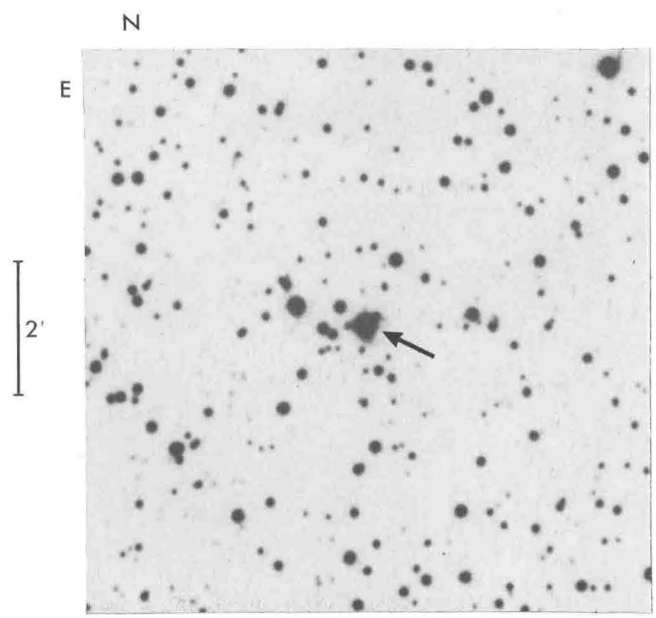
110.6-12.9 K 1-20 POS E 368



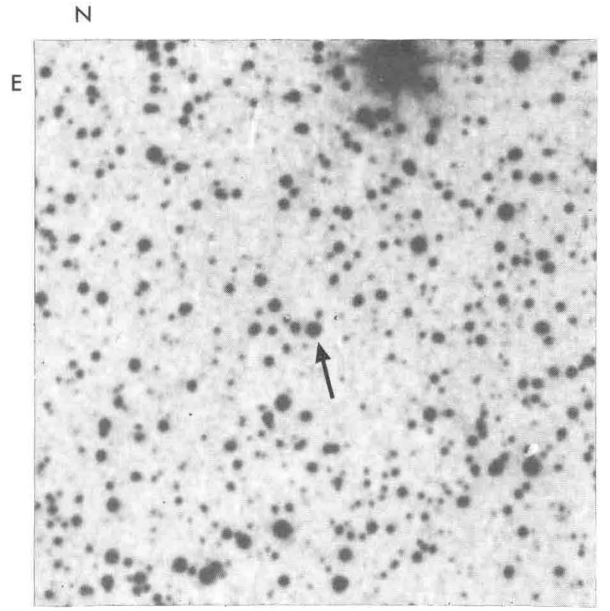
111.0+11.6 DeHt 5 POS E 559



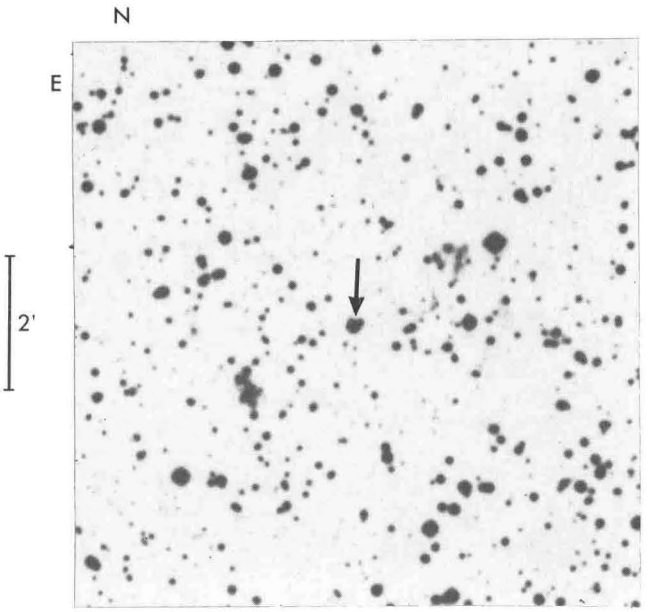
111.2+07.0 KjPn 6 POS E 563



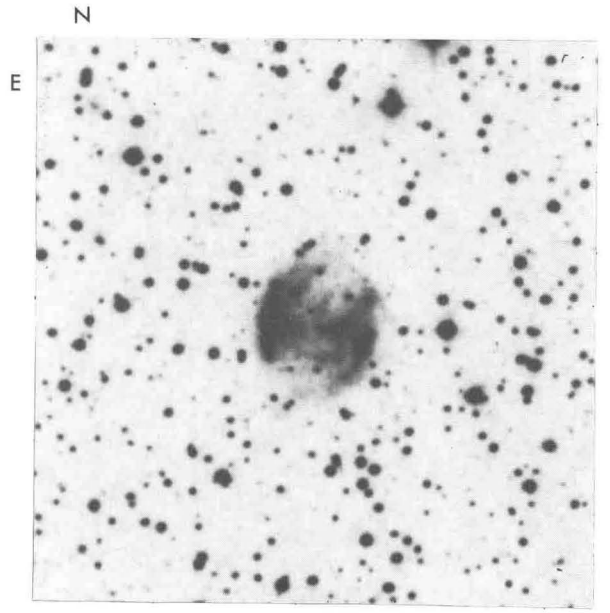
111.8-02.8 Hb 12 POS E1173



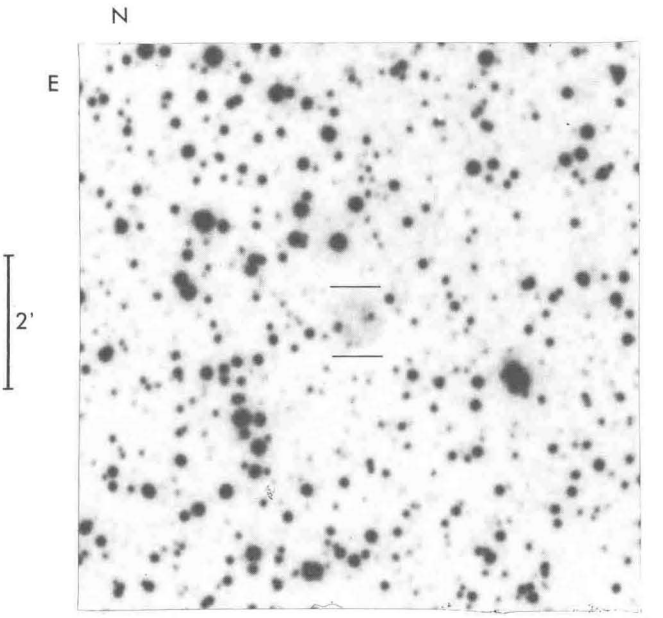
112.5+03.7 K 3-88 POS E 548



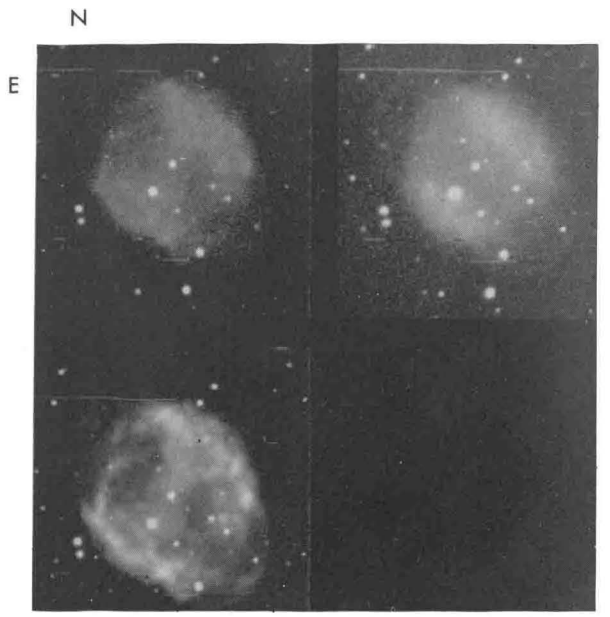
112.5 - 00.1 KjPn 8 POS E1173



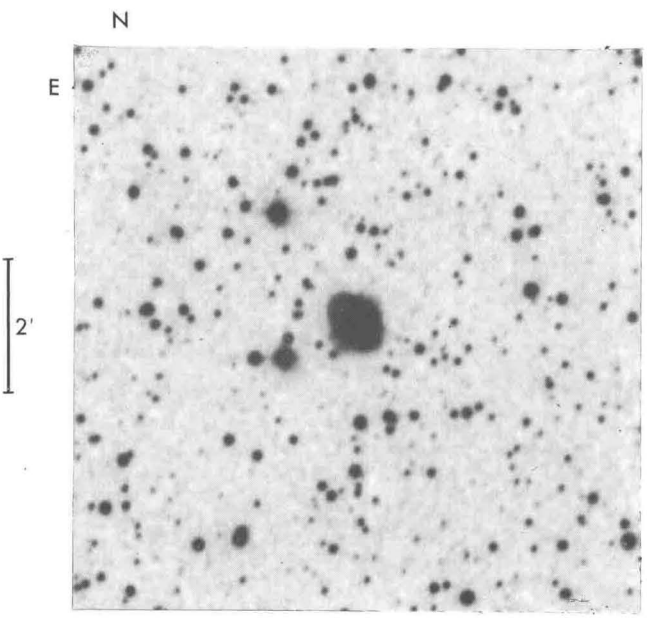
112.9-10.2 A 84 POS E 368



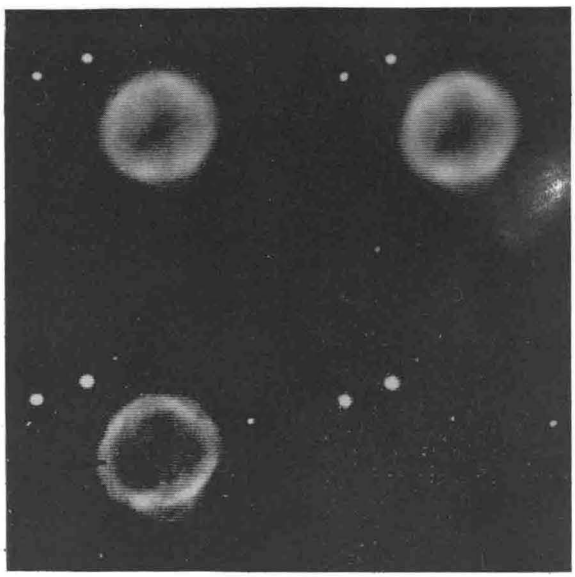
113.6-06.9 A 83 POS E 595



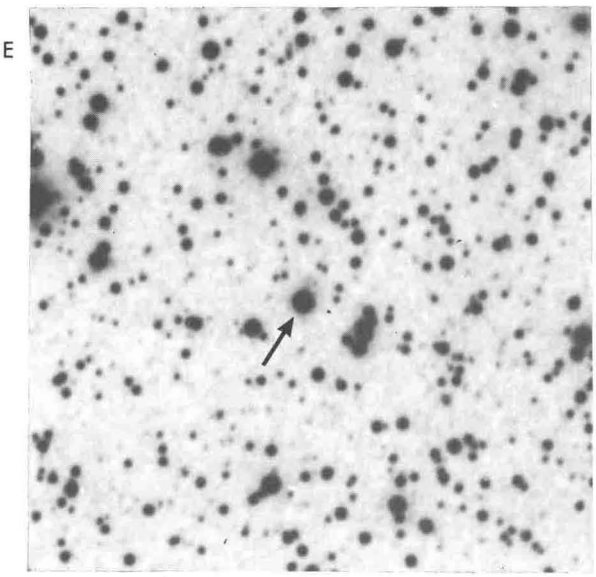
114.0-04.6 A 82 BALICK 87



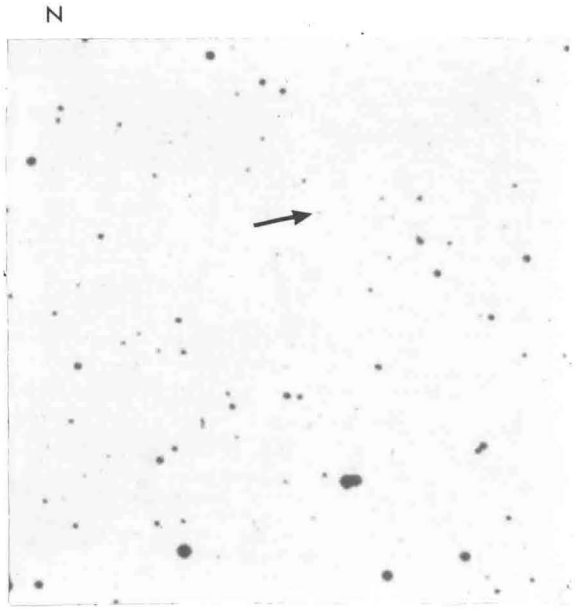
116.2+08.5 M 2-55 POS O 560



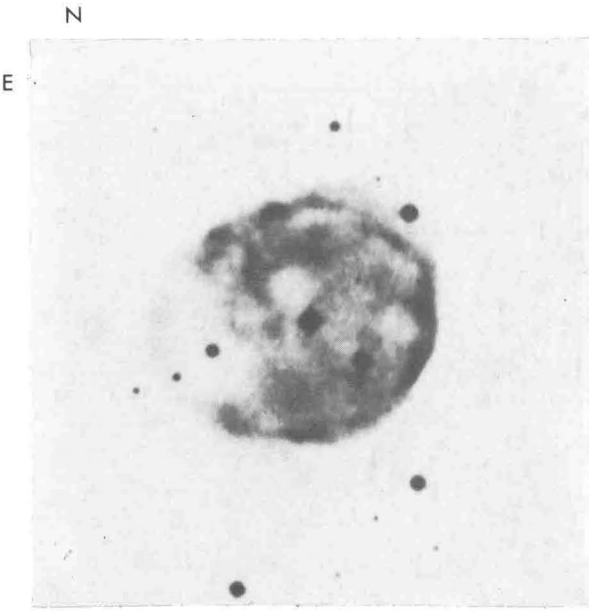
117.5+18.9 IC 1454 BALICK 87



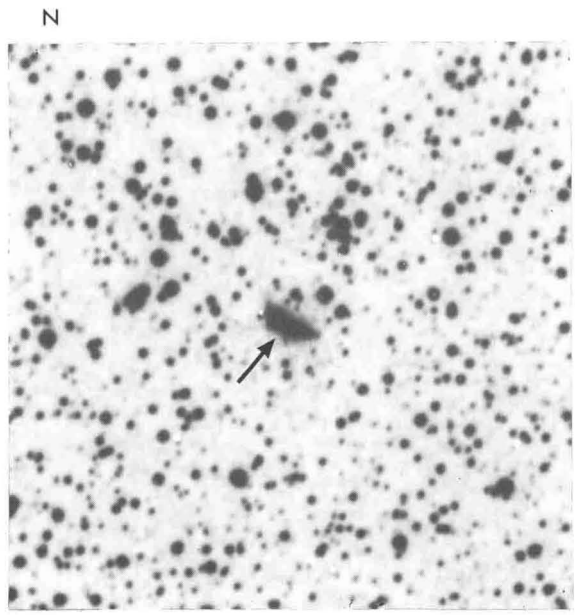
118.0-08.6 Vy 1- 1 POS E 636



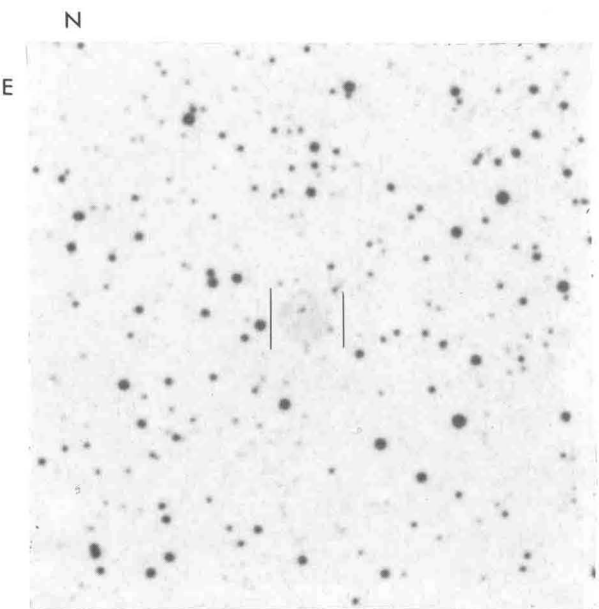
118.7+08.2 A 86 POS E 560



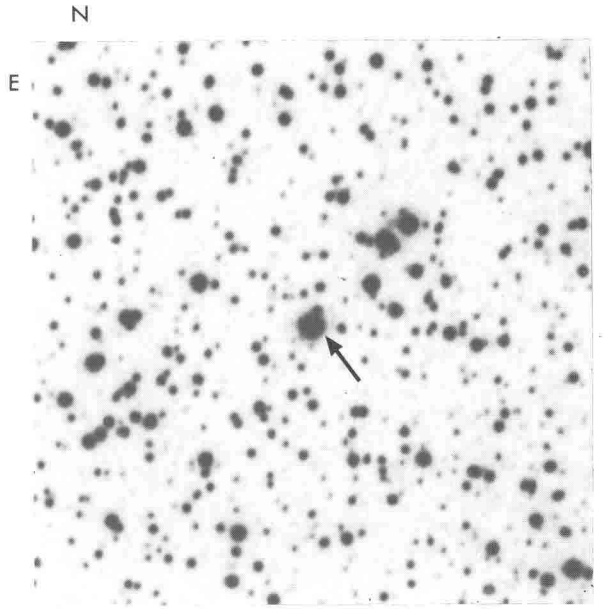
118.8-74.7 NGC 246 POS E1204



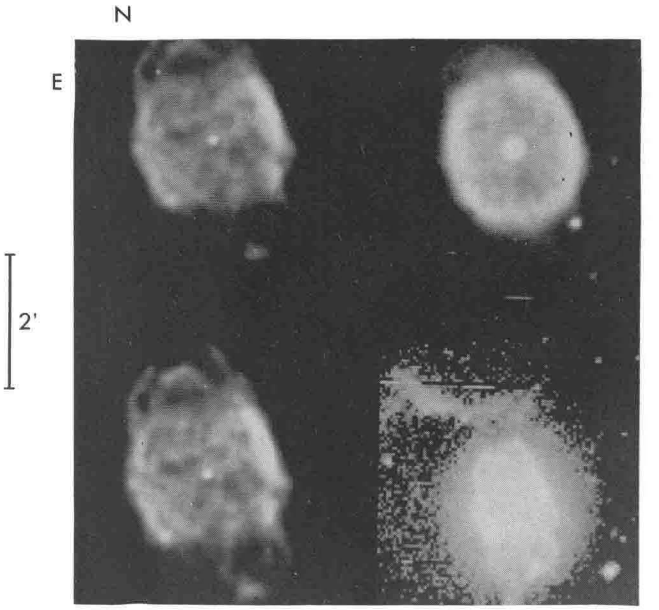
119.3+00.3 BV 5-1 POS E1233



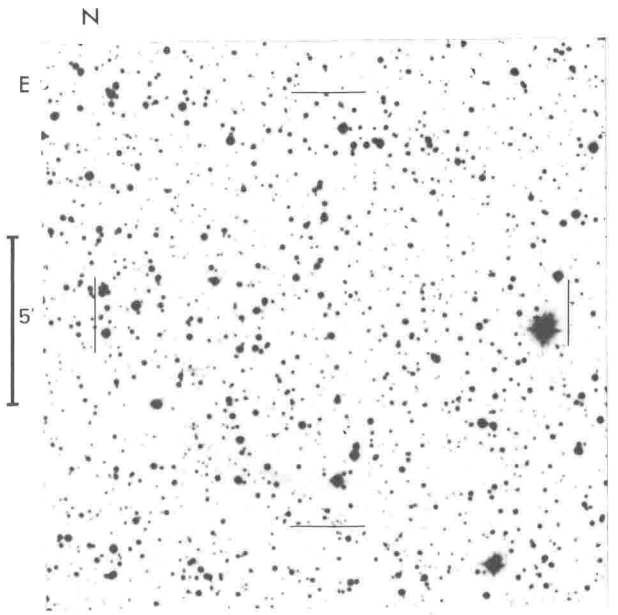
119.4+06.5 A 1 POS E 555



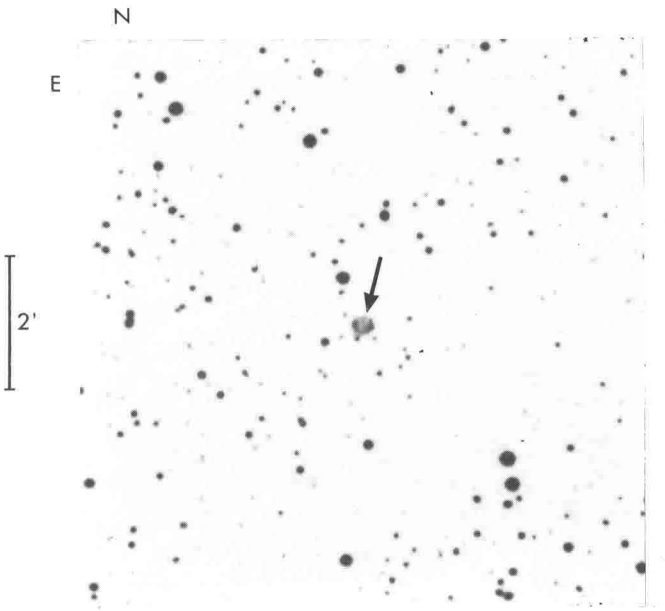
119.6-06.7 Hu 1-1 POS E 636



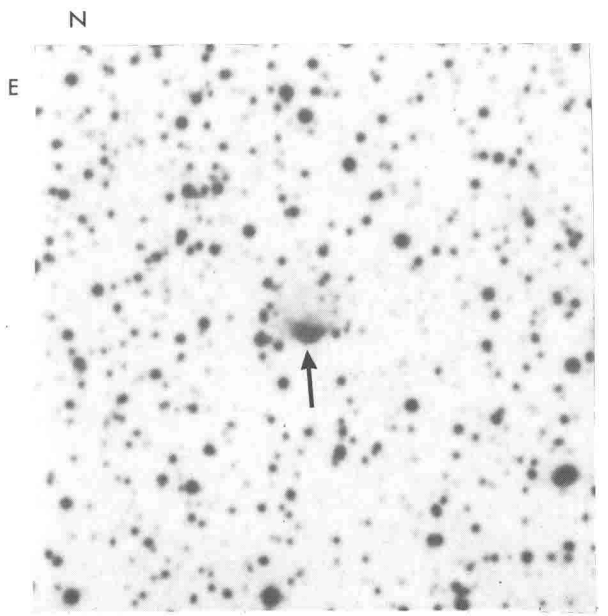
120.0+09.8 NGC 40 BALICK 87



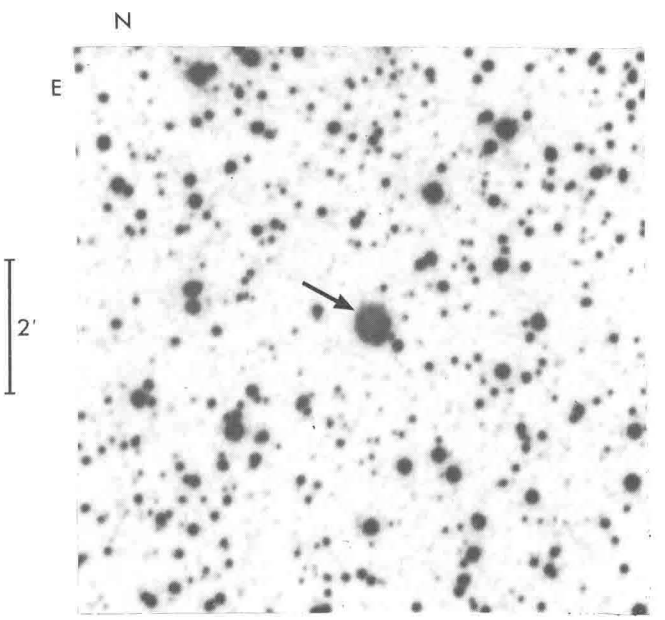
120.2-05.3 Sh 2-176 POS E 596



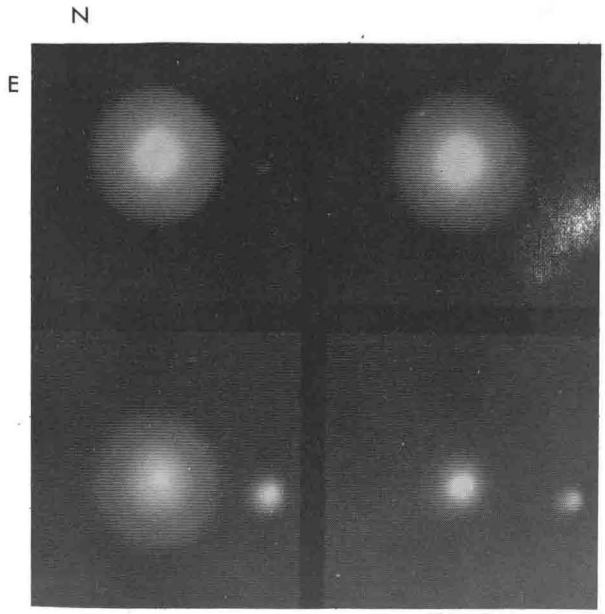
121.6+03.5 We 1- 1 POS E1234



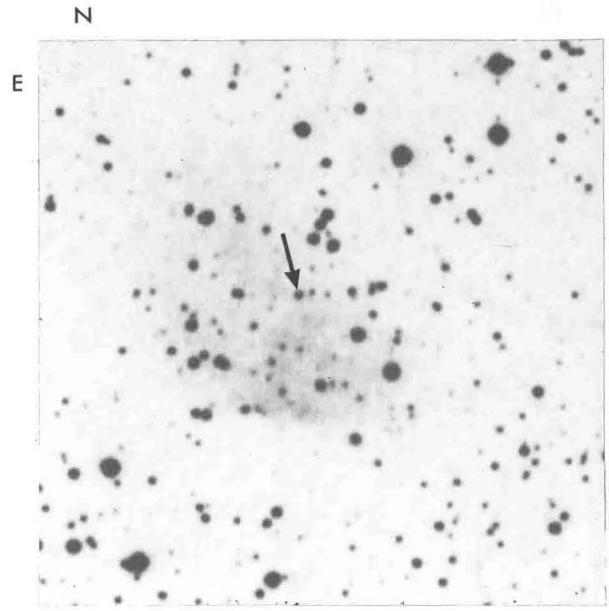
121.6+00.0 BV 5-2 POS E 596



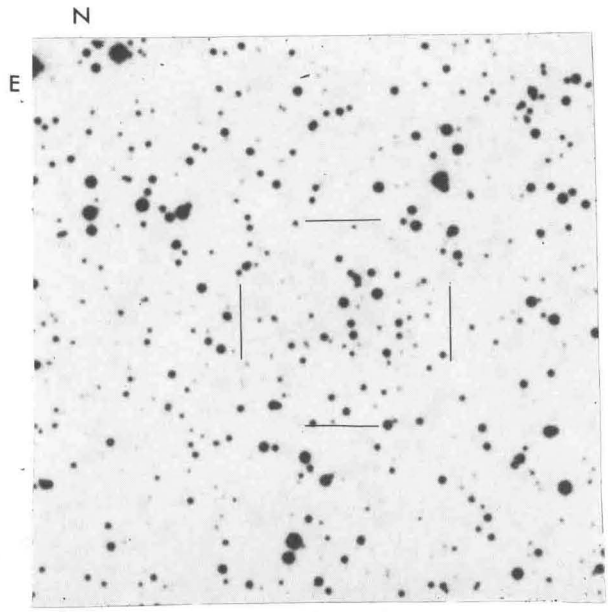
122.1-04.9 A 2 POS E 596



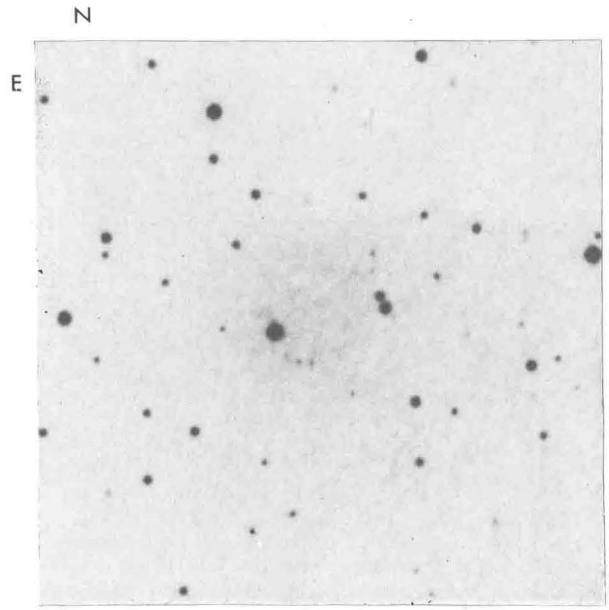
123.6+34.5 IC 3568 BALICK 87



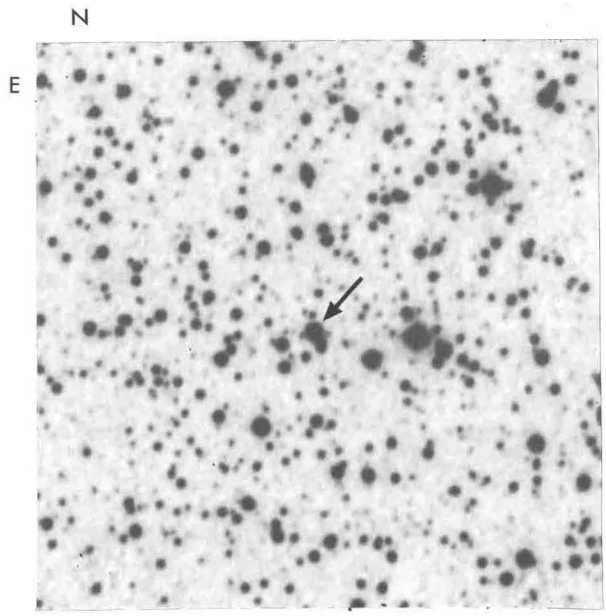
124.0+10.7 EGB 1 POS E1218



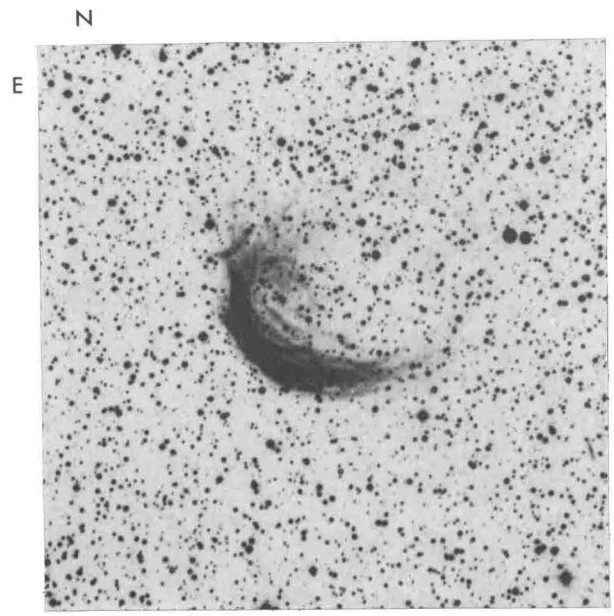
124.2-07.7 WeSb 1 POS E1237



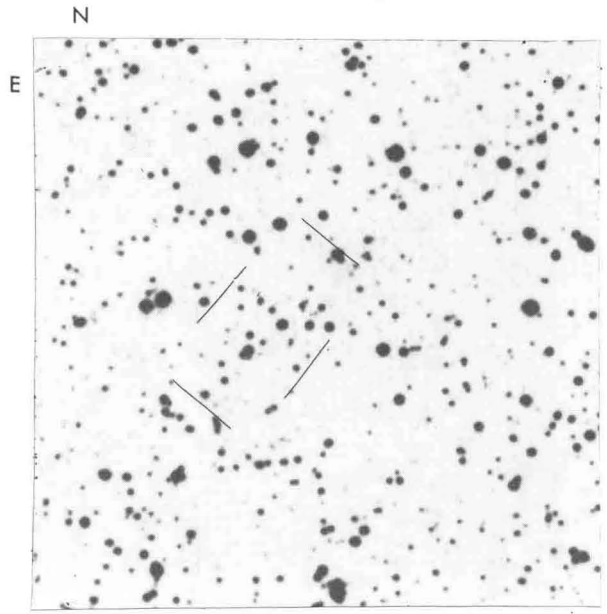
125.9-47.0 PHL 932 POS E1274



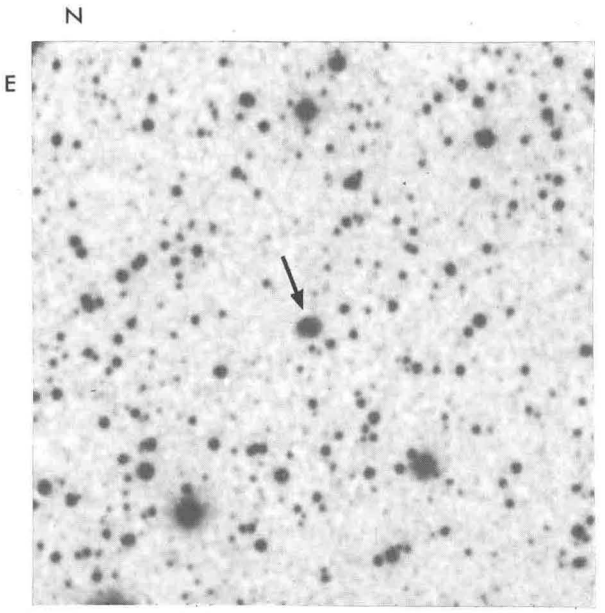
126.3+02.9 K 3-90 POS E1234



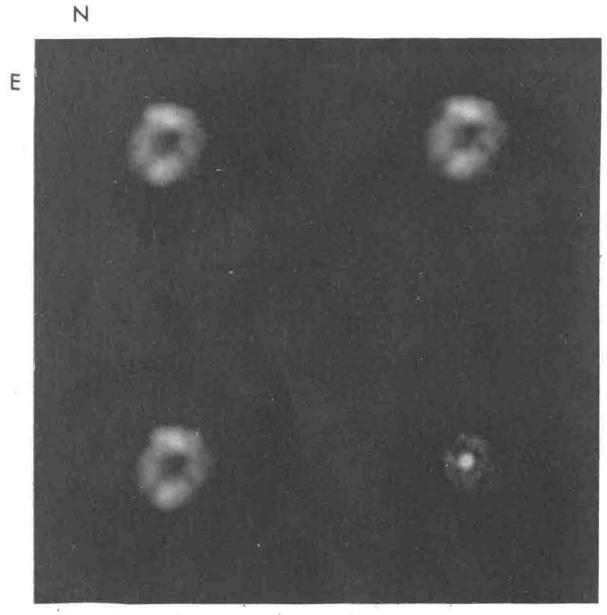
128.0-04.1 Simeiz 22 POS E1240



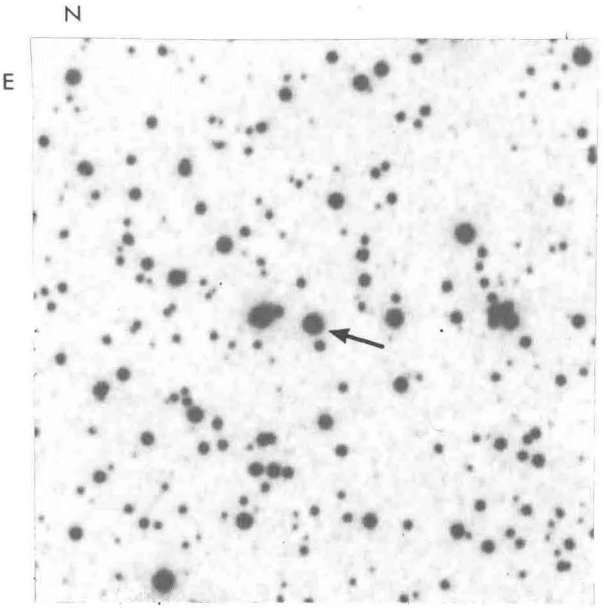
129.2-02.0 We 2- 5 POS E1240



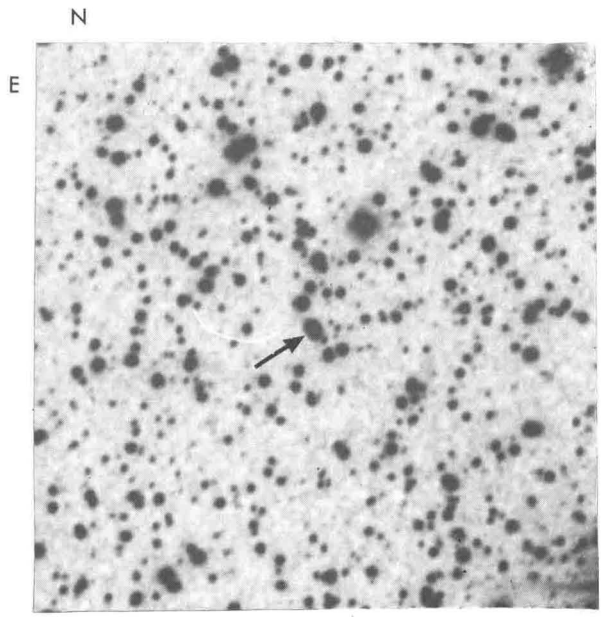
129.5+04.5 K 3-91 POS E 878



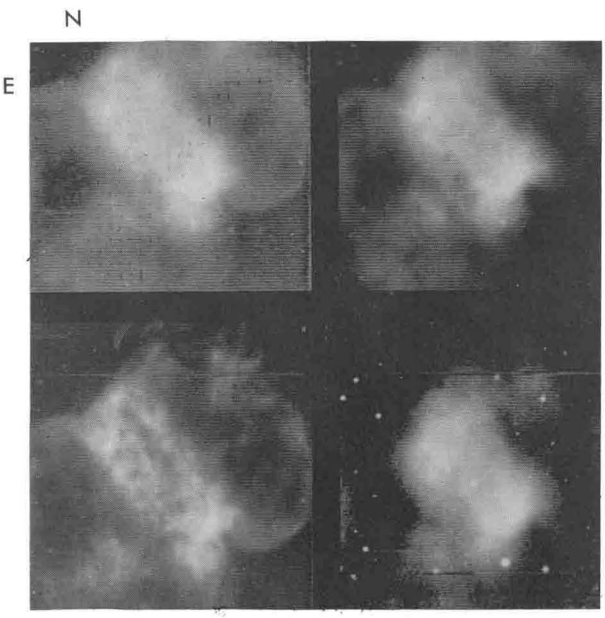
130.2+01.3 IC 1747 BALICK 87



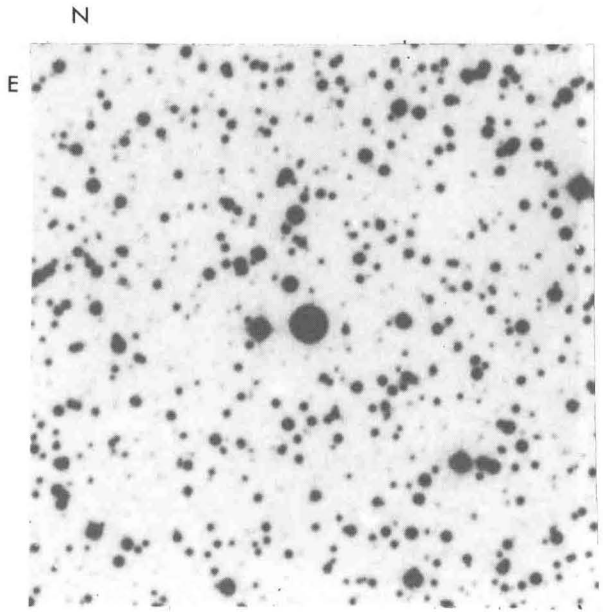
130.3-11.7 M 1- 1 POS E 861



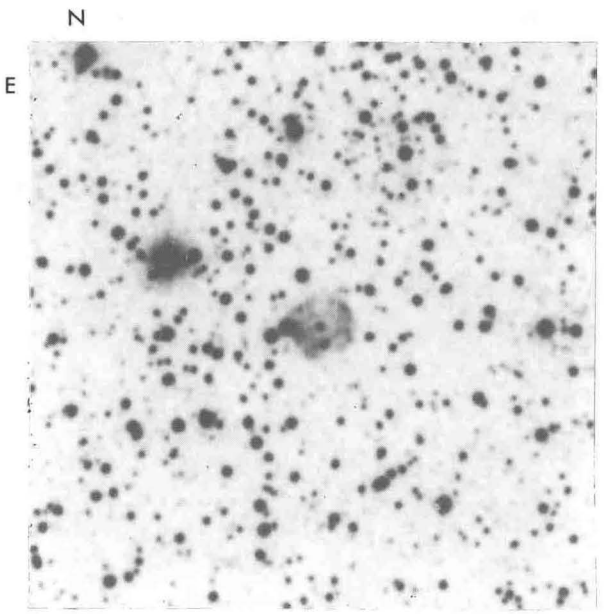
130.4+03.1 K 3-92 POS E 878



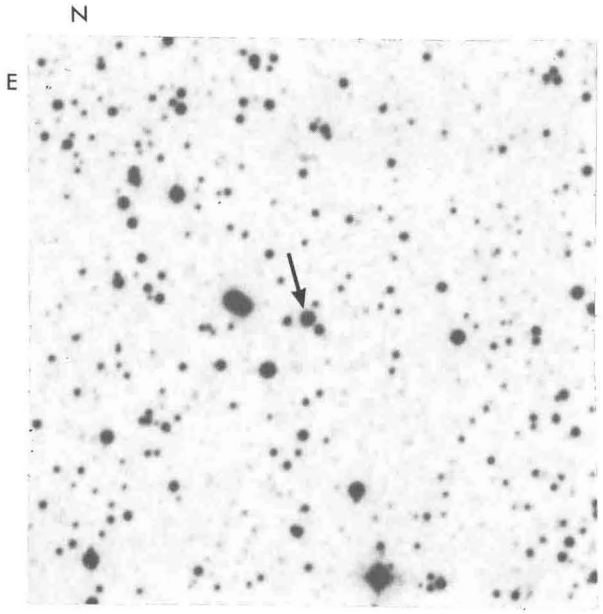
130.9-10.5 NGC 650-51 BALICK 87



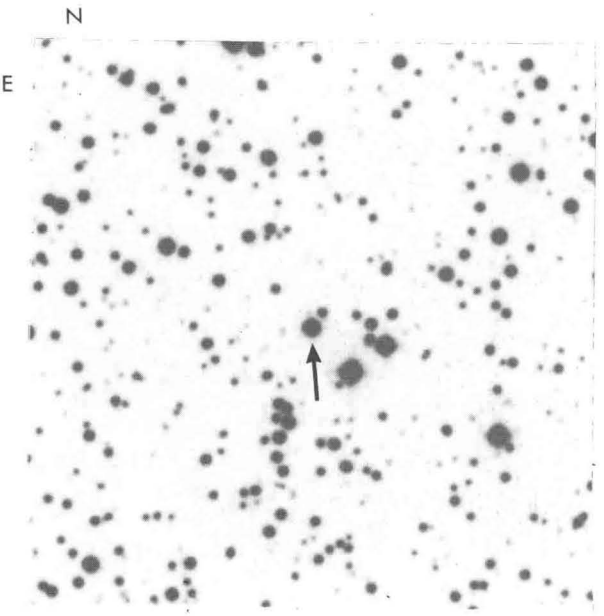
131.4-05.4 BV 5-3 POS E1245



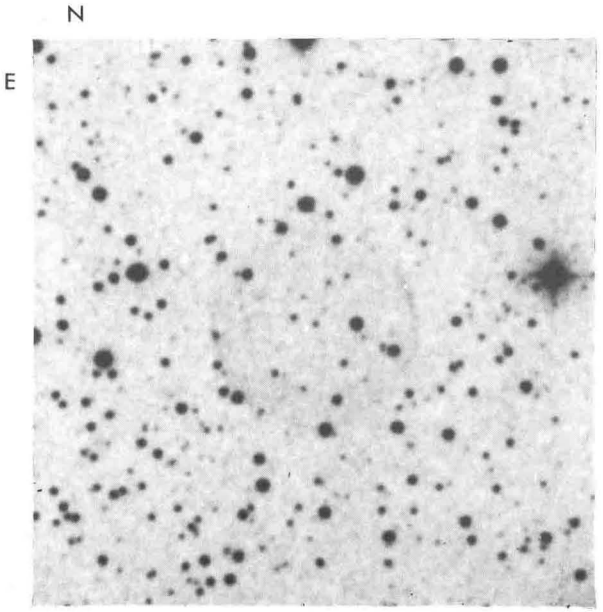
131.5+02.6 A 3 POS E 878



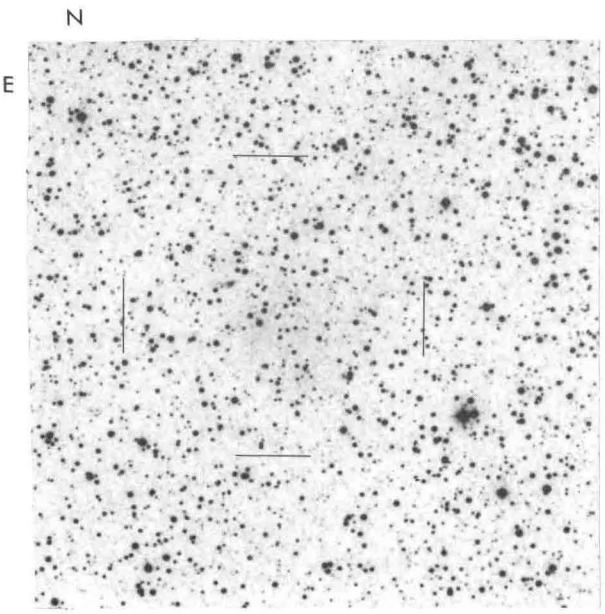
132.4+04.7 K 3-93 POS E1241



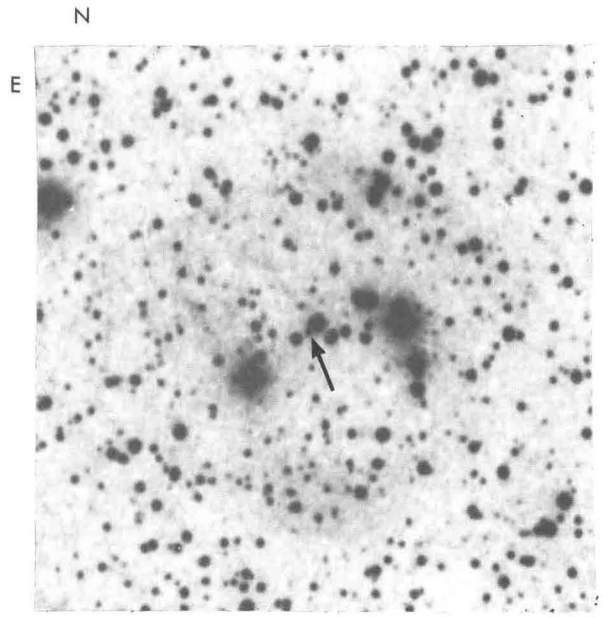
133.1-08.6 M 1- 2 POS E1245



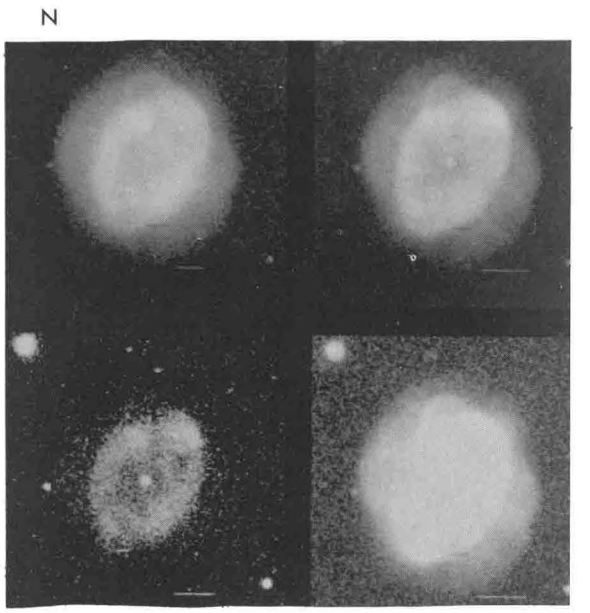
136.1+04.9 A 6 POS E1241



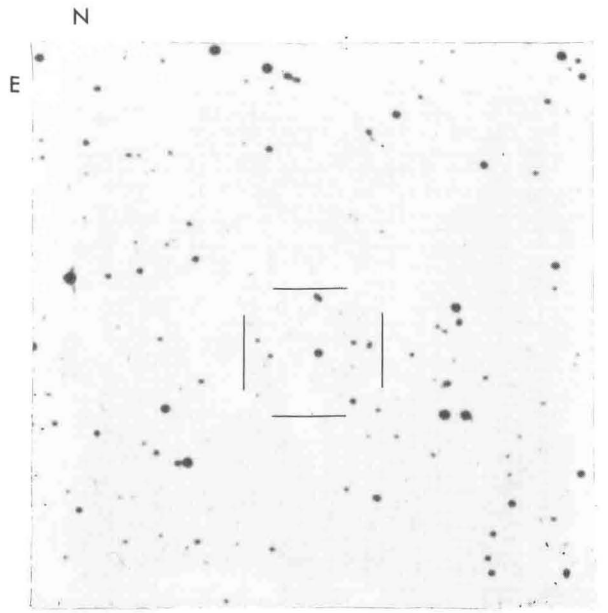
136.3+05.5 HFG 1 POS E1241



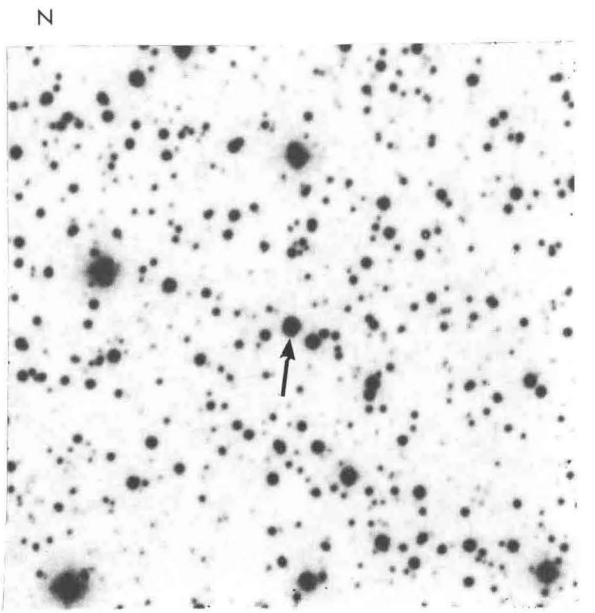
138.1+04.1 HDW 2 POS E 968



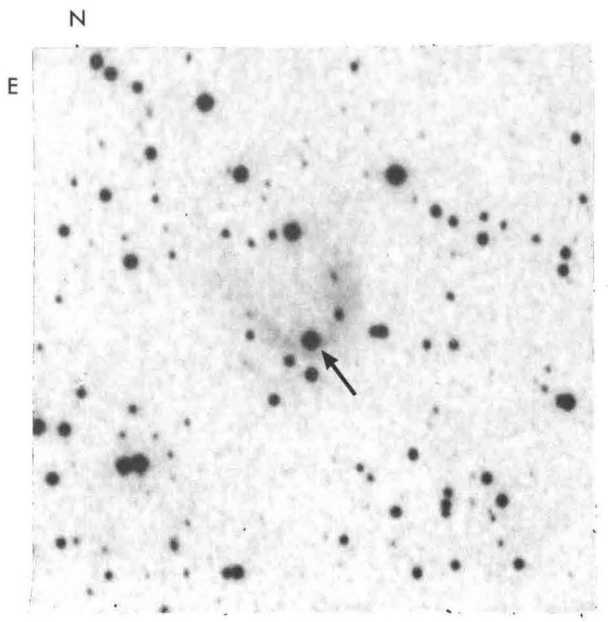
138.8+02.8 IC 289 BALICK 87



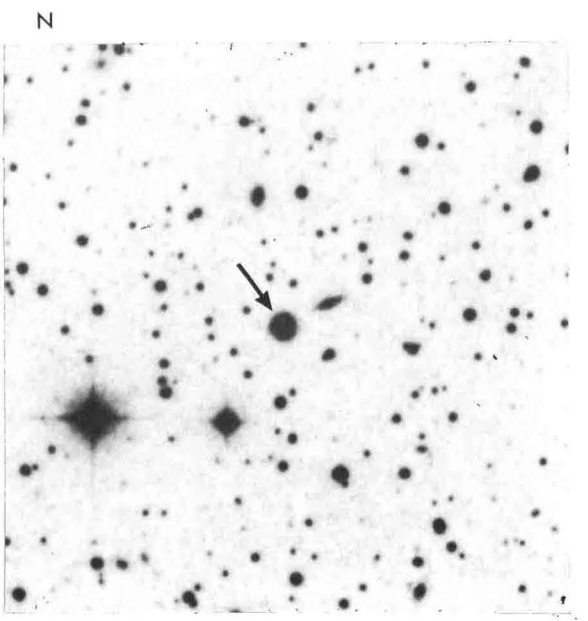
141.7-07.8 A 5 POS E 645



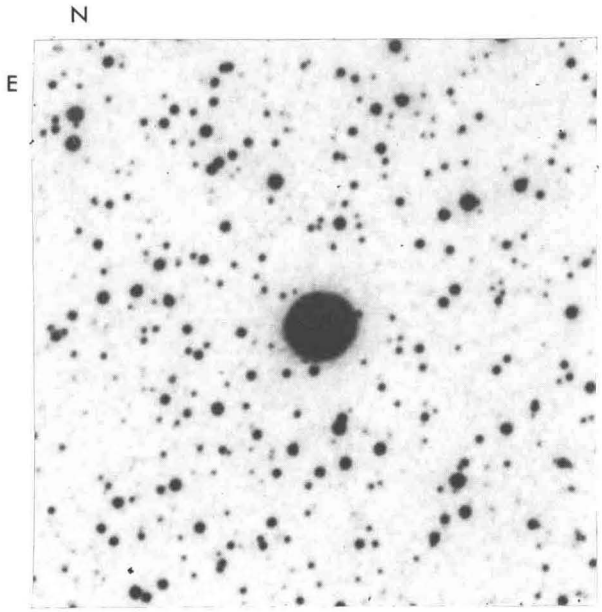
142.1+03.4 K 3-94 POS E 957



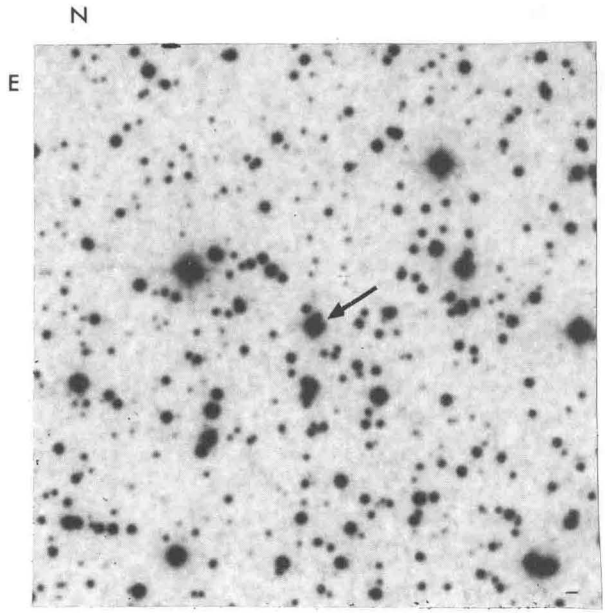
143.6+23.8 EGB 4 POS E 665



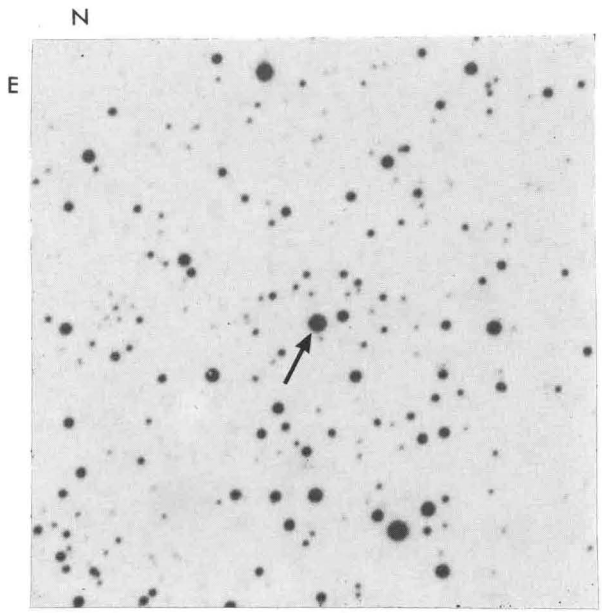
144.3-15.5 A 4 POS E 449



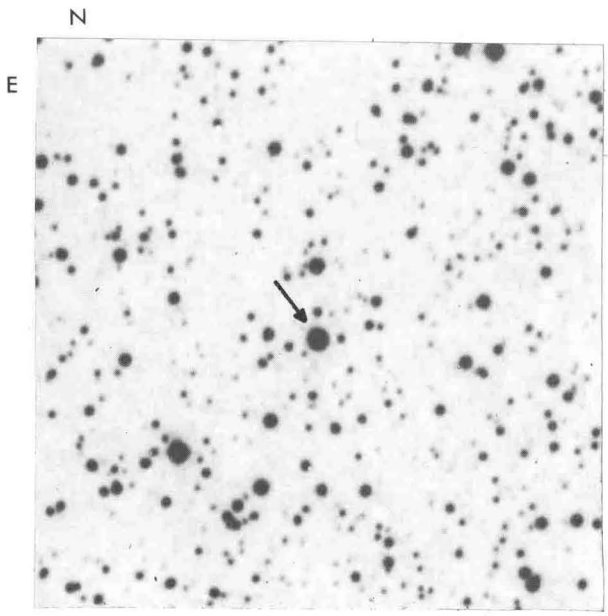
144.5+06.5 NGC 1501 POS E 957



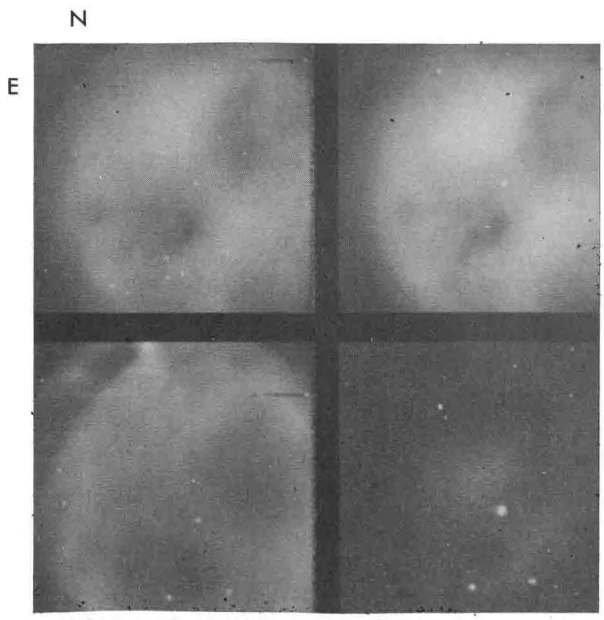
146.7+07.6 M 4-18 POS E 663



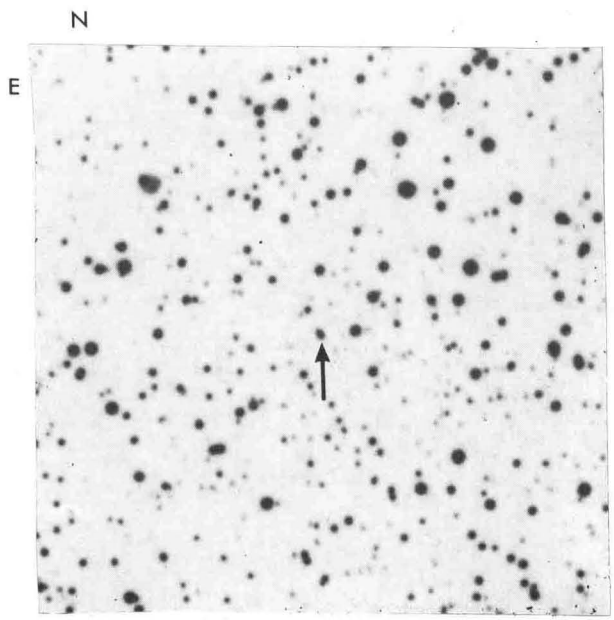
147.4-02.3 M 1- 4 POS E1236



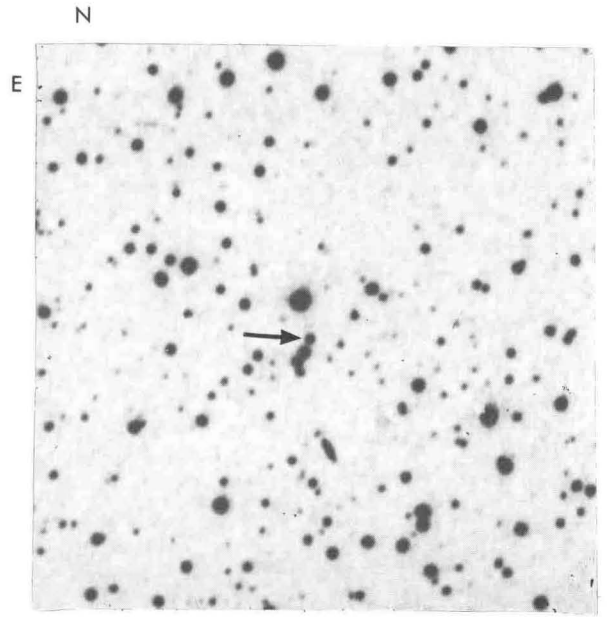
147.8+04.1 M 2- 2 POS E1236



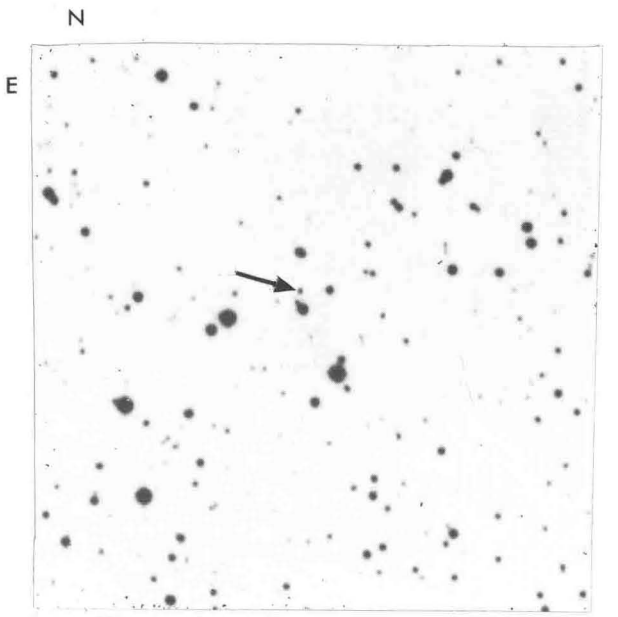
148.4+57.0 NGC 3587 BALICK 87



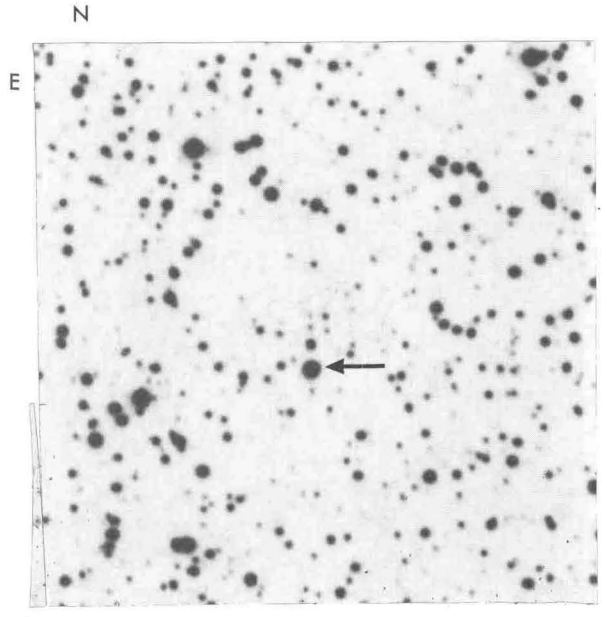
149.0+04.4 K 4-47 POS E1236



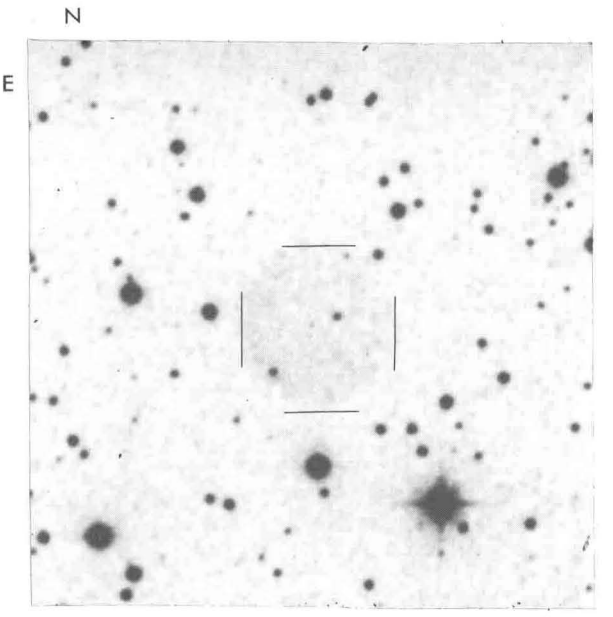
149.4-09.2 HDW 3 POS E 643



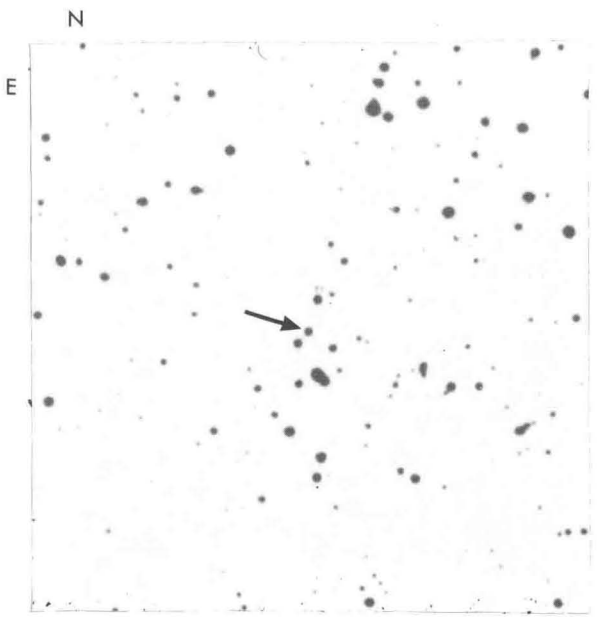
149.7-03.3 IsWe 1 POS E1249



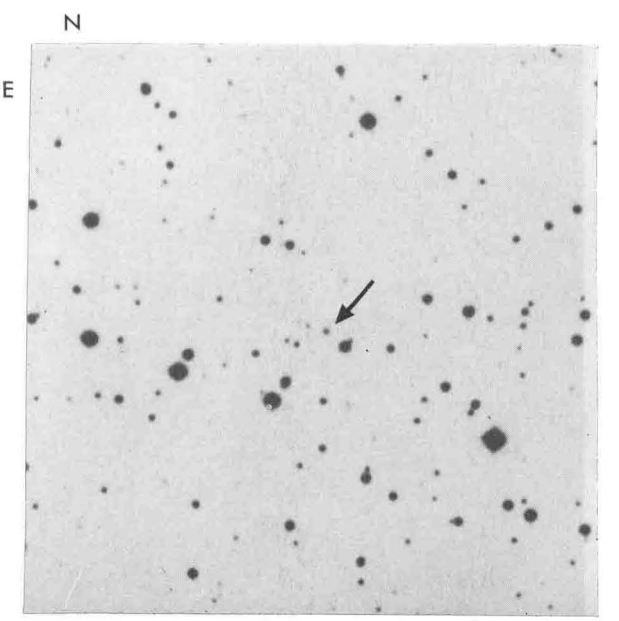
151.4+00.5 K 3- 64 POS E1246



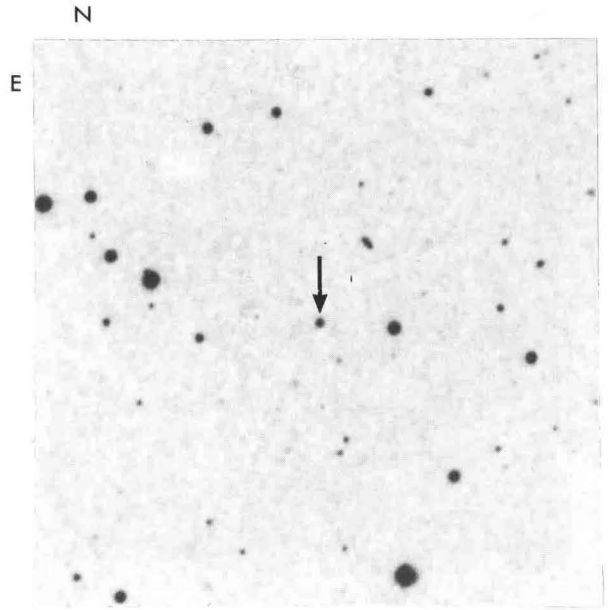
153.7+22.8 A 16 POS E1264



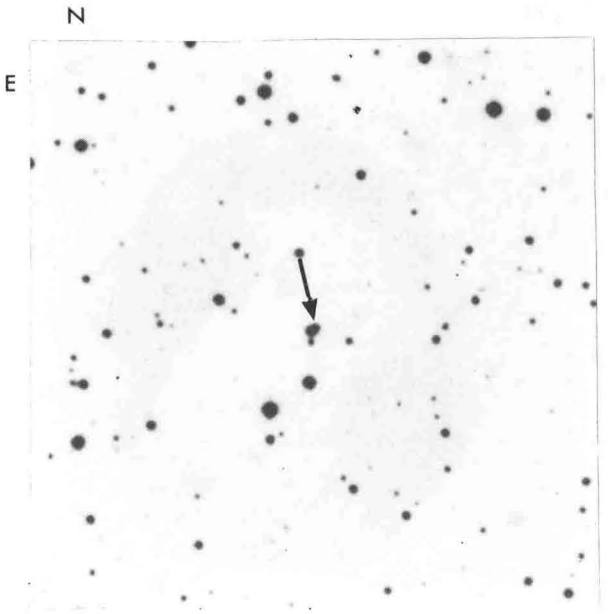
153.7-01.4 K 3-65 POS E1253



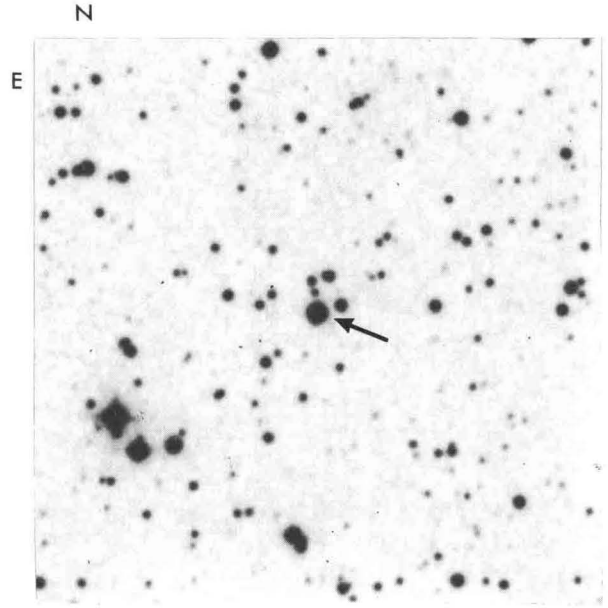
156.9-13.3 HaWe 5 POS E1302



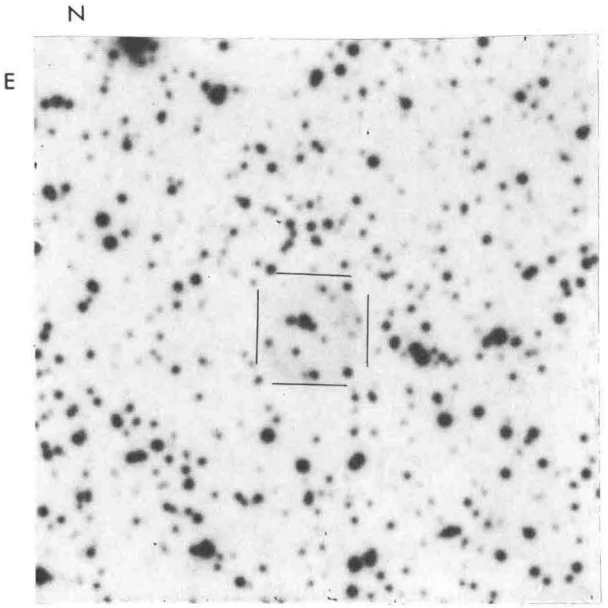
158.8+37.1 A 28 POS E1296



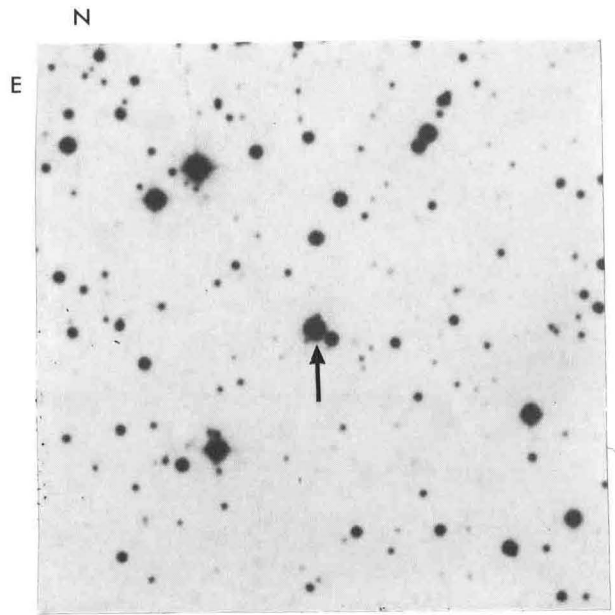
158.9+17.8 PuWe 1 POS E 984



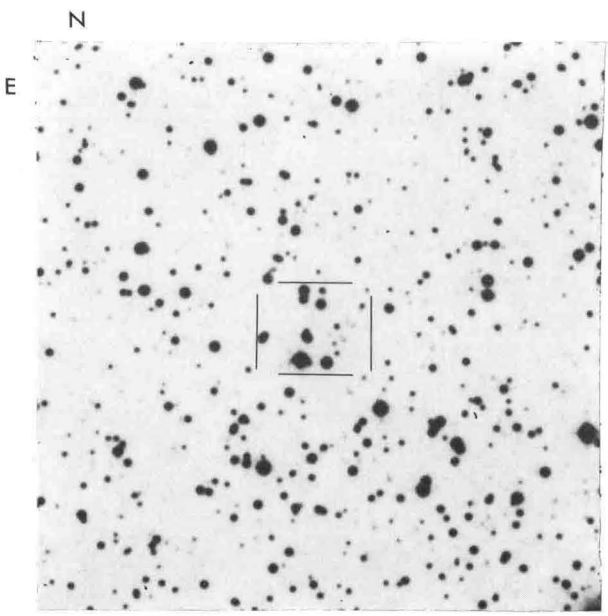
159.0-15.1 IC 351 POS E1302



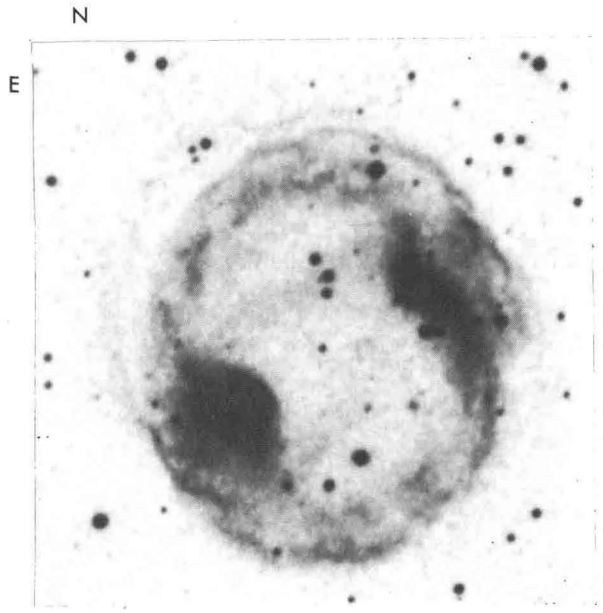
160.5 - 00.5 We 1- 2 POS E 644



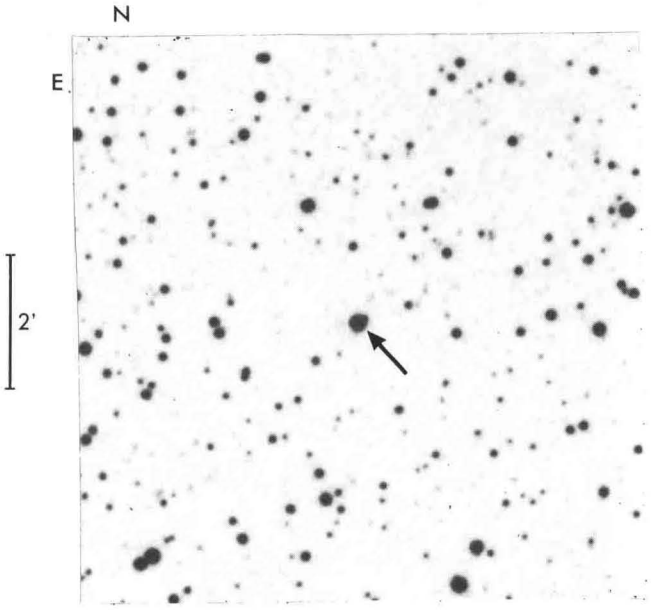
161.2-14.8 IC 2003 POS E1302



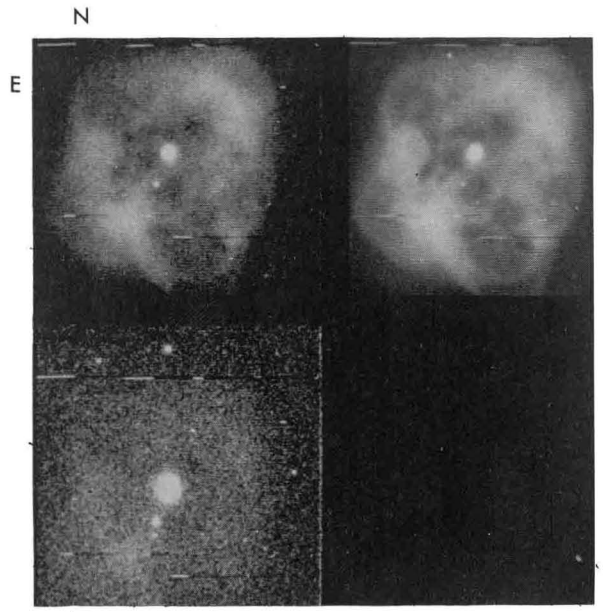
163.1 - 00.8 We 1- 3 POS E 644



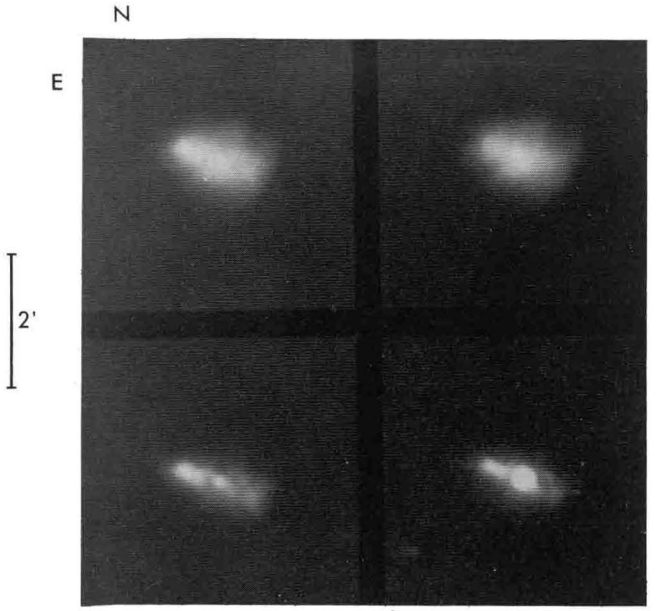
164.8+31.1 JnEr 1 POS E 985



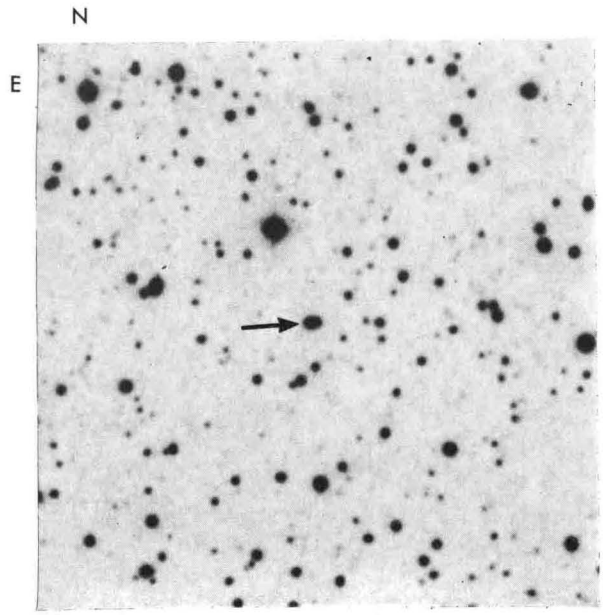
165.5-06.5 K 3-67 POS E1469



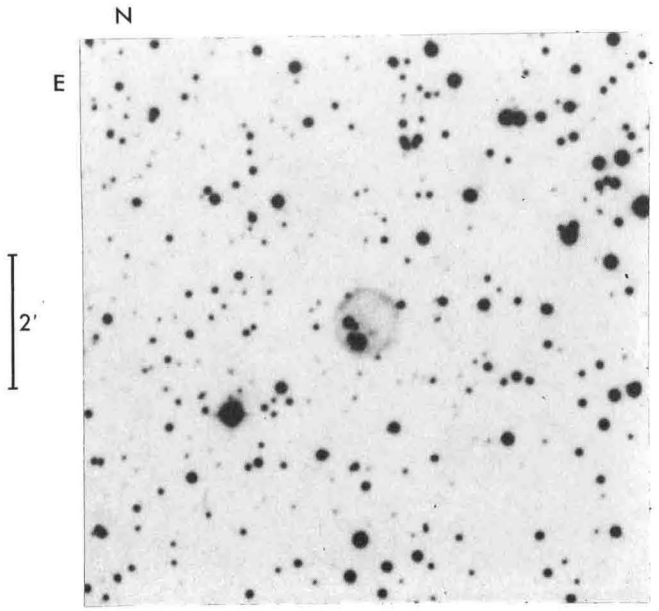
165.5-15.2 NGC 1514 BALICK 87



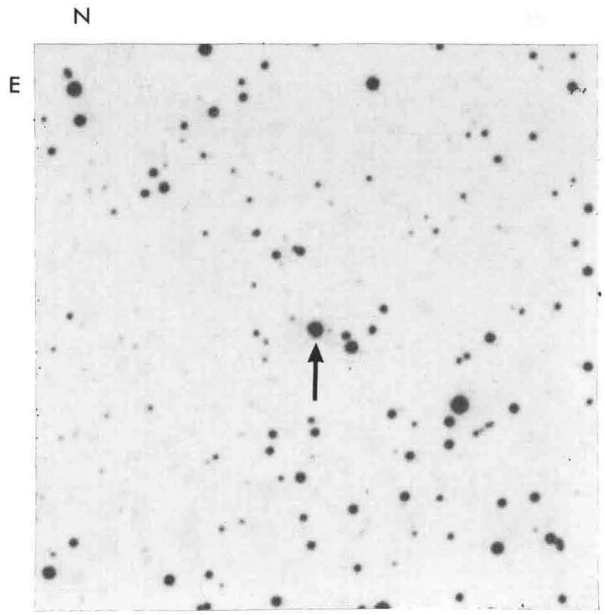
166.1+10.4 IC 2149 BALICK 87



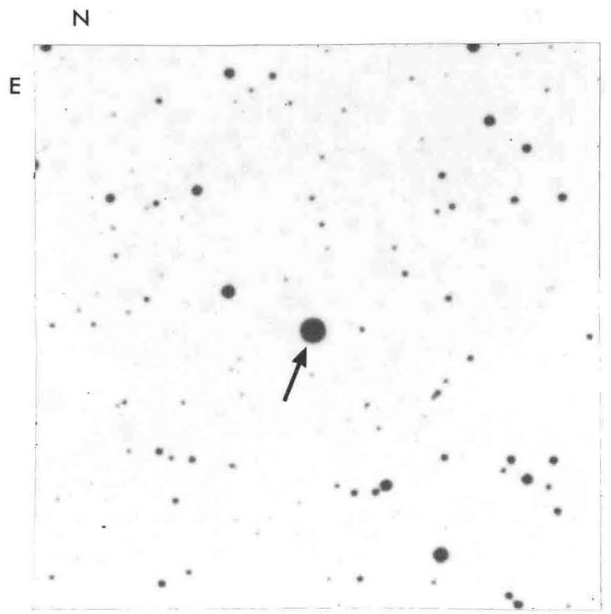
166.4-06.5 CRL 618 POS E1469



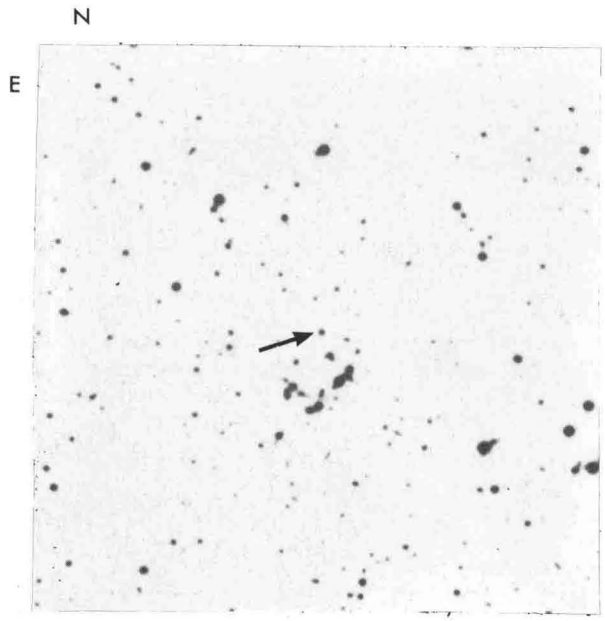
167.0 - 00.9 A 8 POS E1315



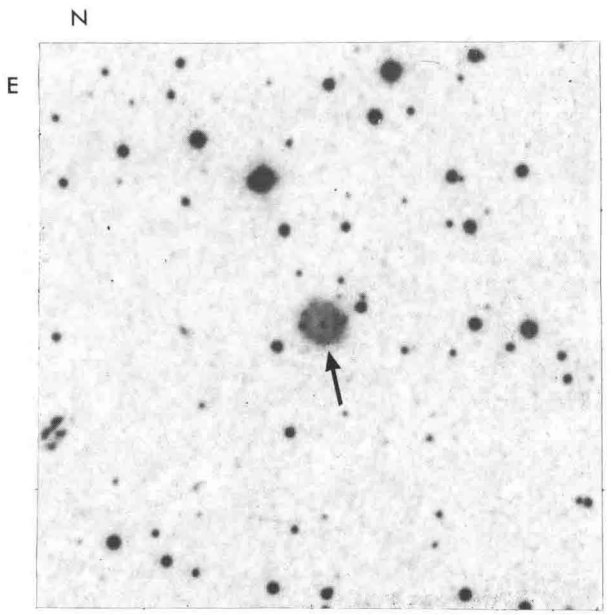
167.4-09.1 K 3-66 POS E1469



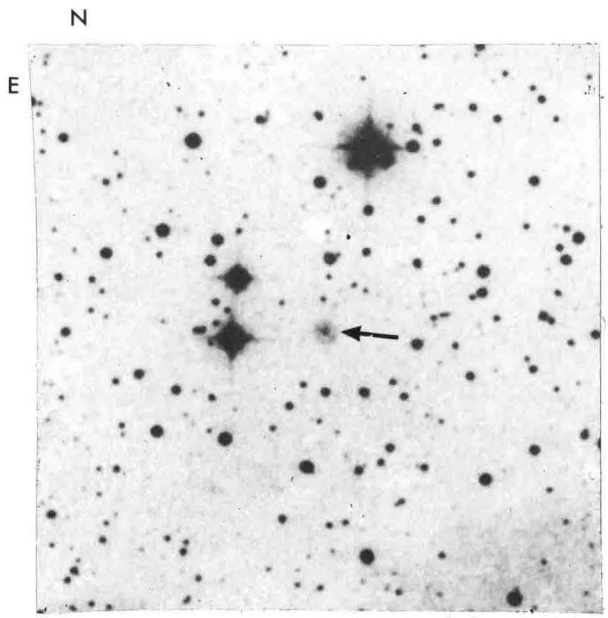
170.3+15.8 NGC 2242 POS E 696



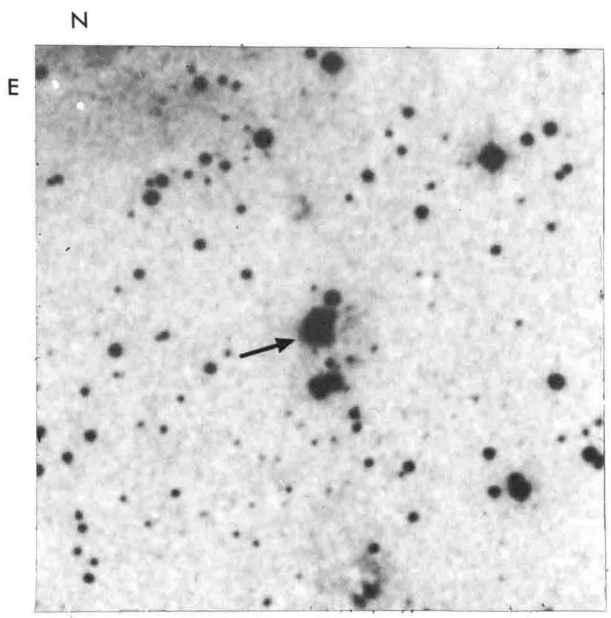
170.7+04.6 K 3-69 POS E 645



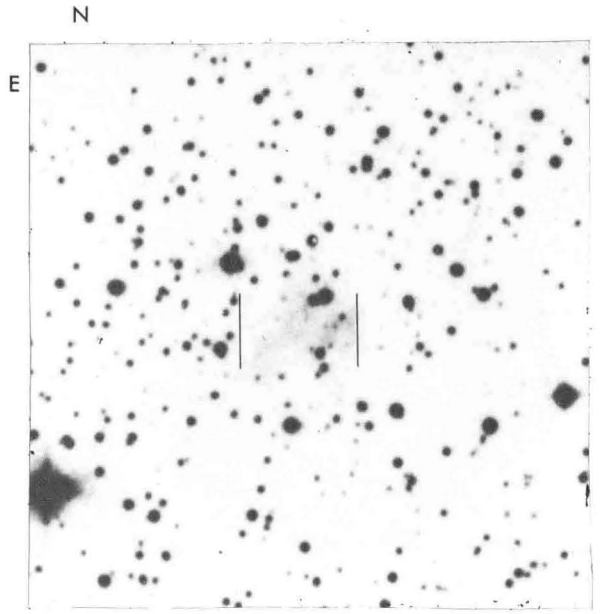
171.3-25.8 Ba 1 POS E 444



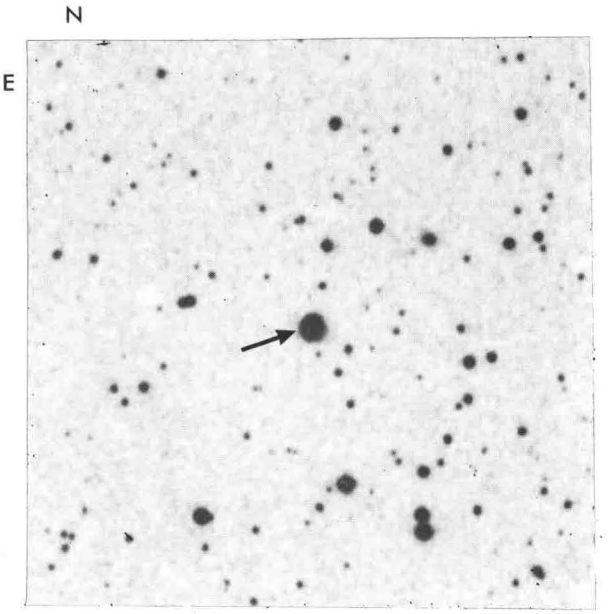
173.5+03.2 Pu 2 POS E 942



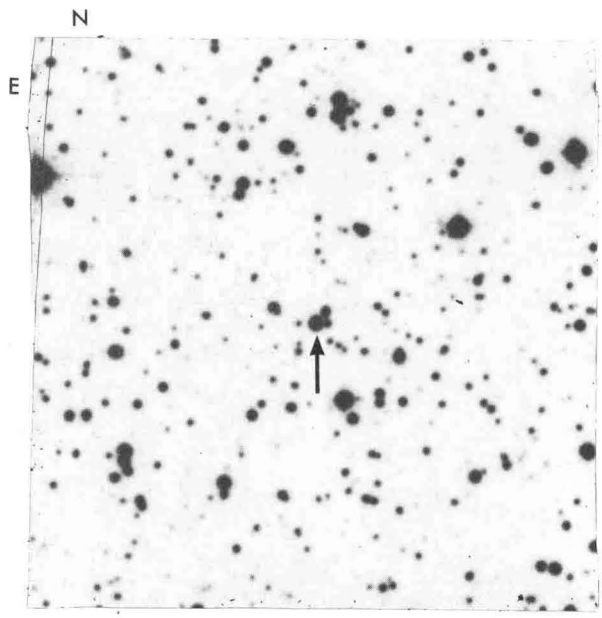
173.7+02.7 PP 40 POS E1290



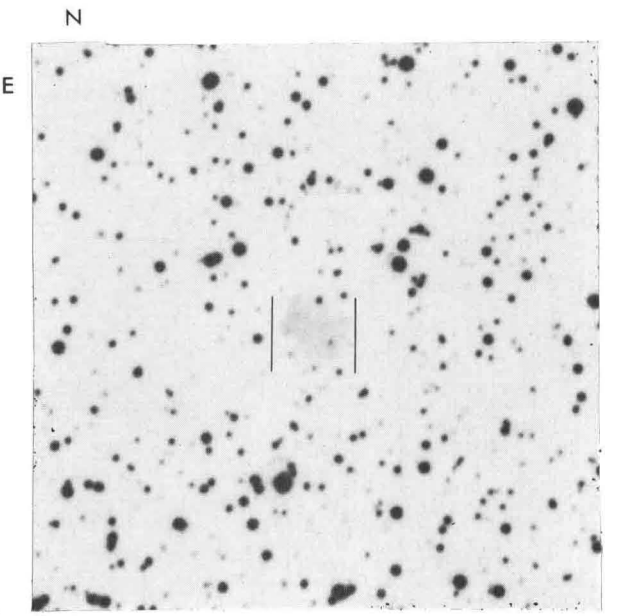
173.7-05.8 K 2- 1 POS E1455



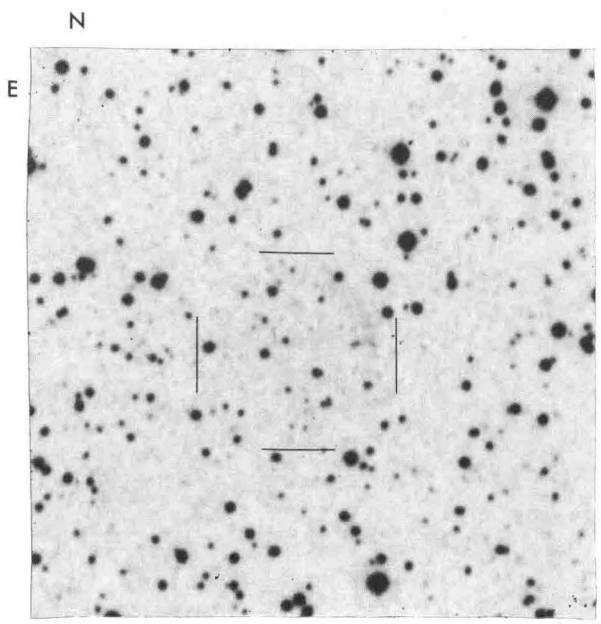
174.2-14.6 H 3-29 POS E 228



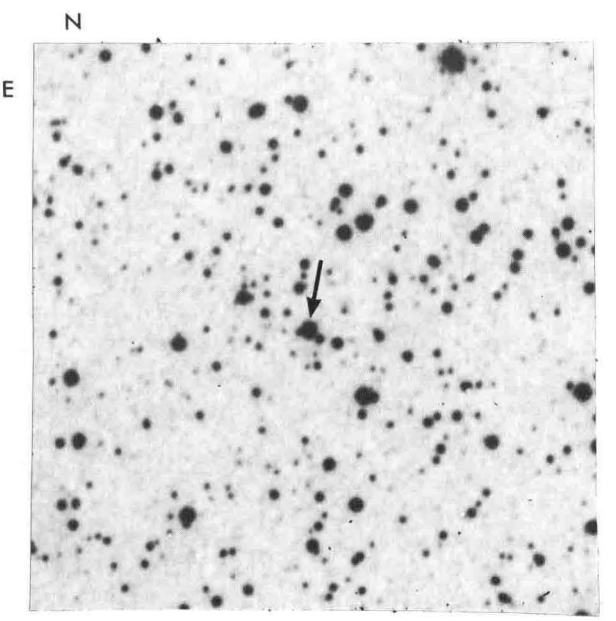
178.3-02.5 K 3-68 POS E1455



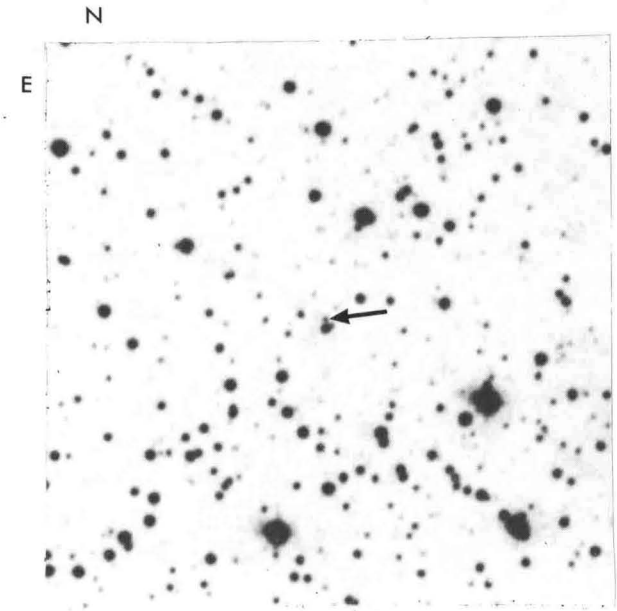
181.5+00.9 Pu 1 POS E1459



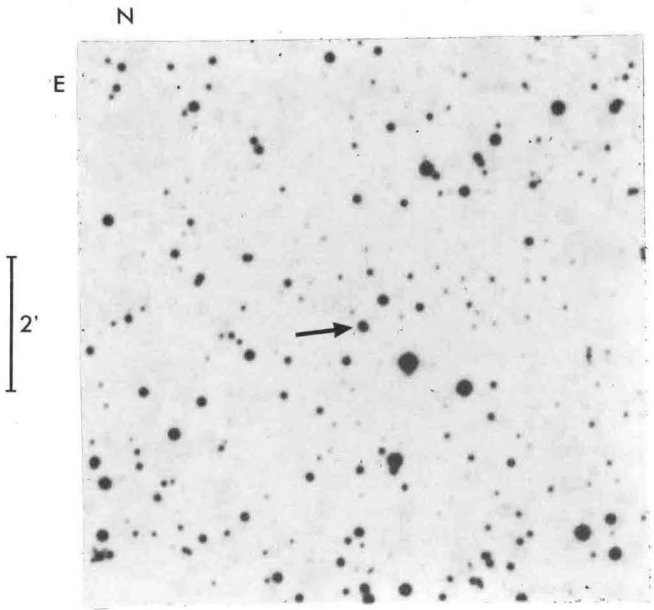
183.8+05.5 WeSb 2 POS E 411



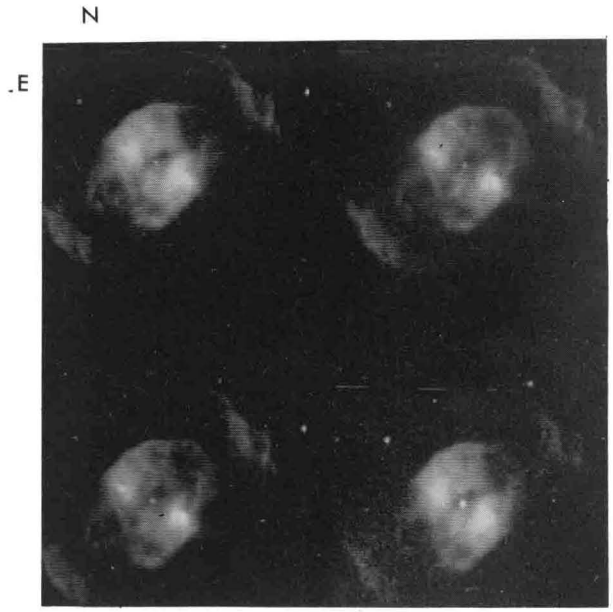
184.0-02.1 M 1- 5 POS E 416



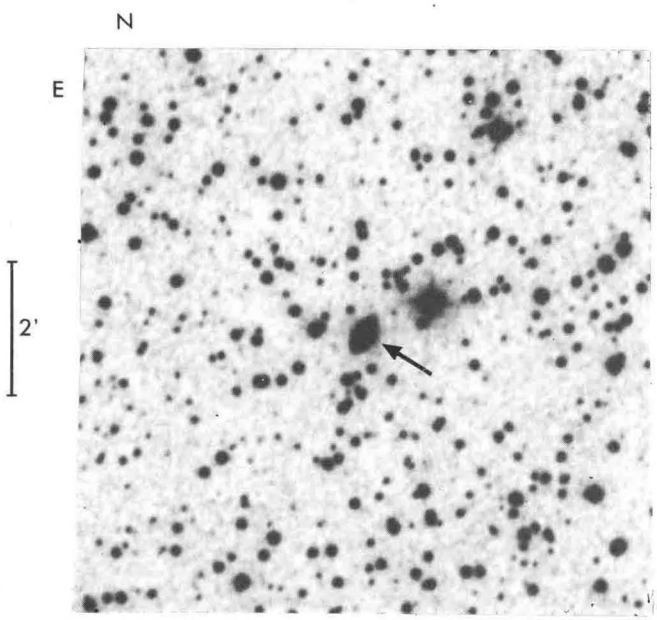
184.6+00.6 K 3-70 POS E 416



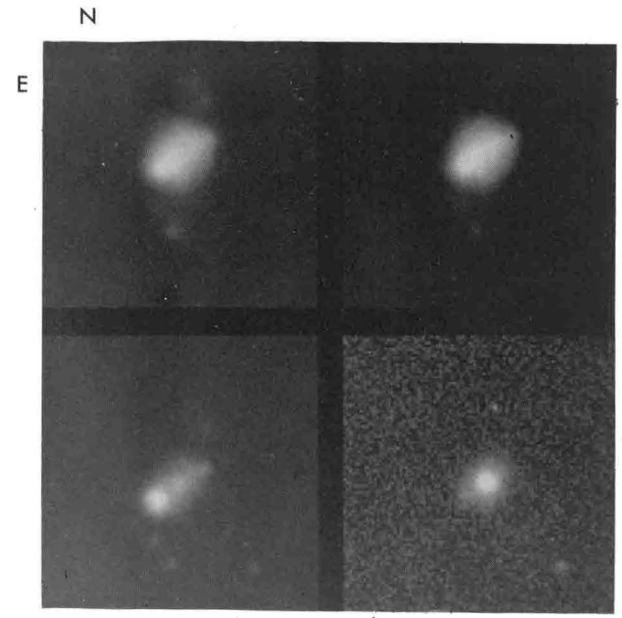
184.8+04.4 K 3-71 POS E 411



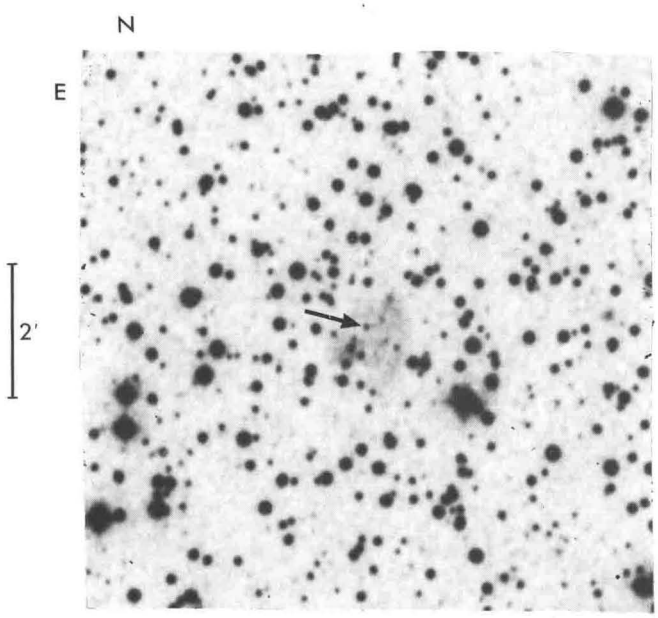
189.1+19.8 NGC 2371-72 BALICK 87



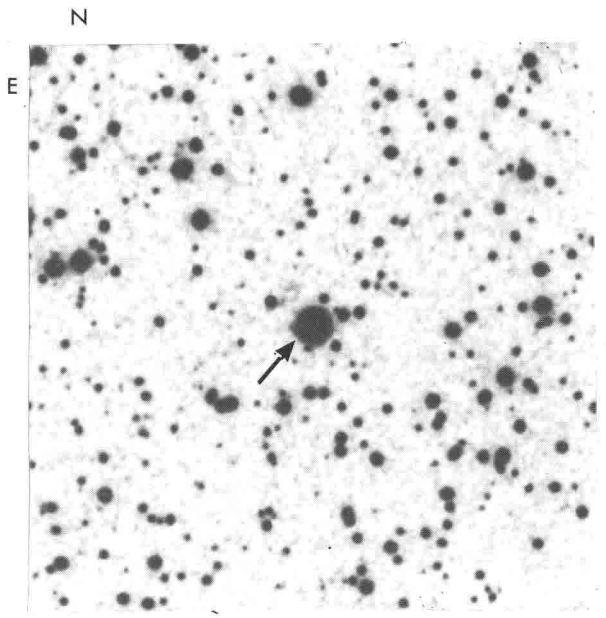
189.8+07.7 M 1- 7 POS E 23



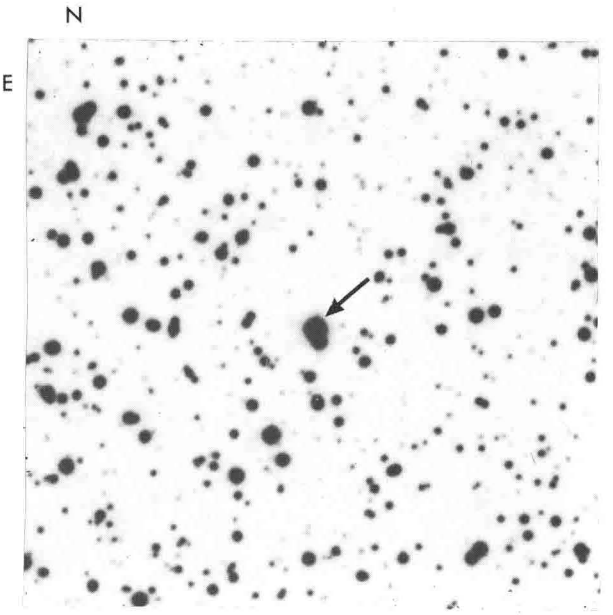
190.3-17.7 J 320 BALICK 87



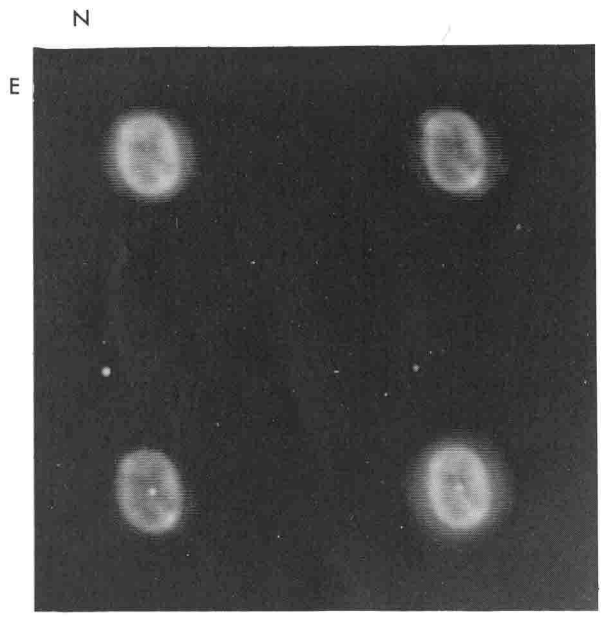
192.5+07.2 HDW 6 POS E 23



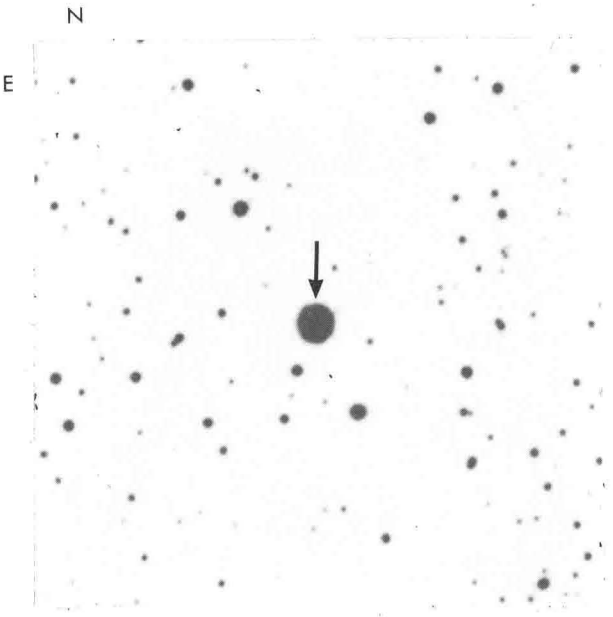
193.6-09.5 H 3-75 POS E 415



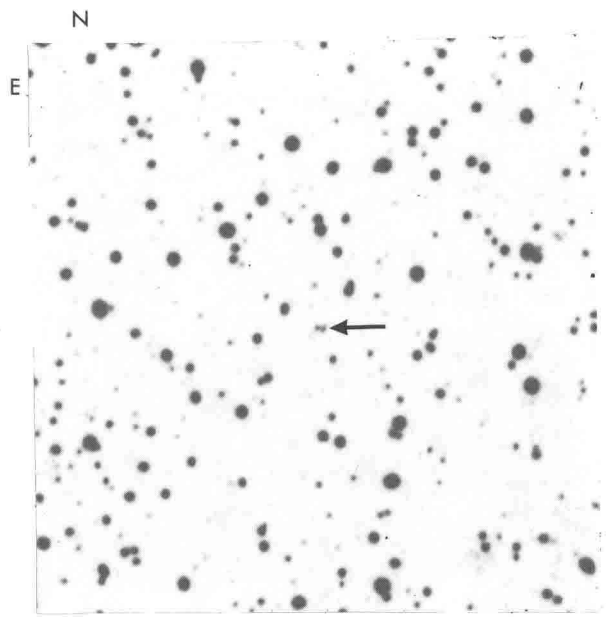
194.2+02.5 J 900 POS E1470



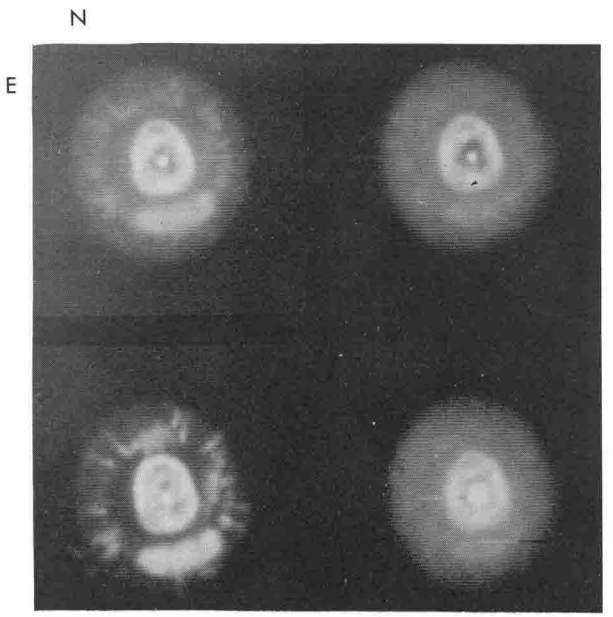
196.6-10.9 NGC 2022 BALICK 87



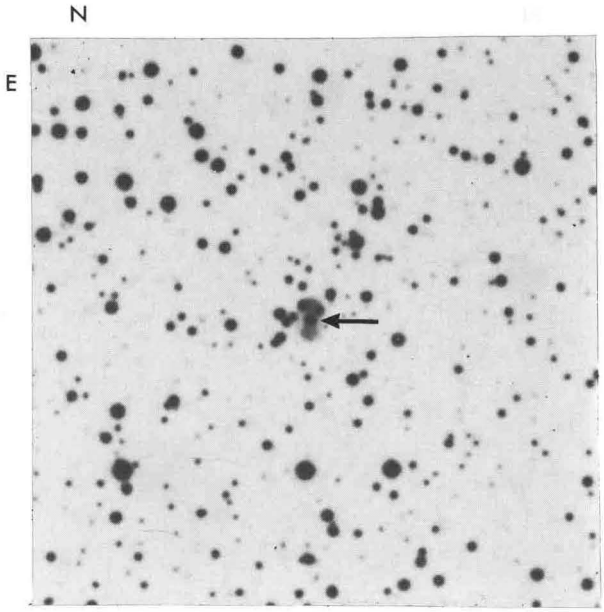
197.2-14.2 K 1- 7 POS E1493



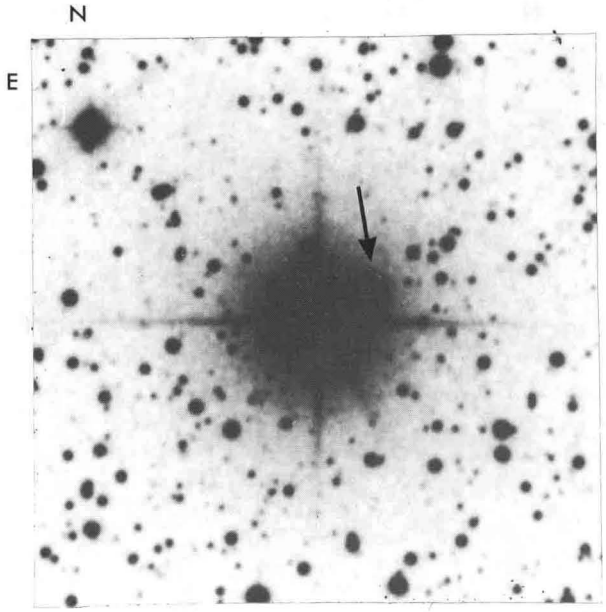
197.4-06.4 WeDe 1 POS E1502



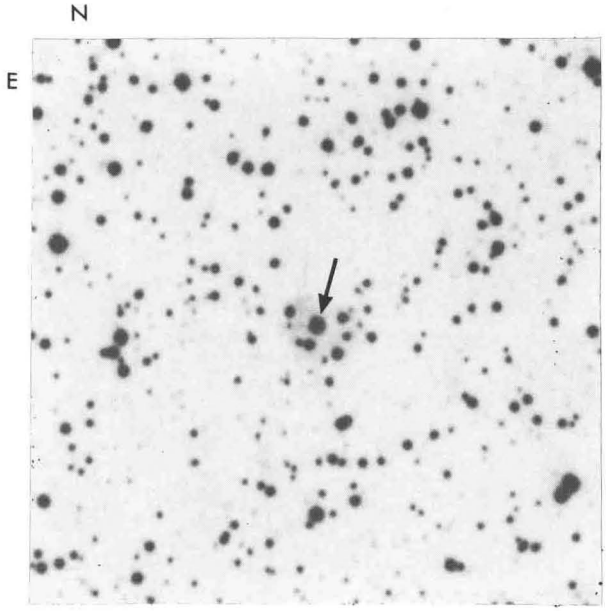
197.8+17.3 NGC 2392 BALICK 87



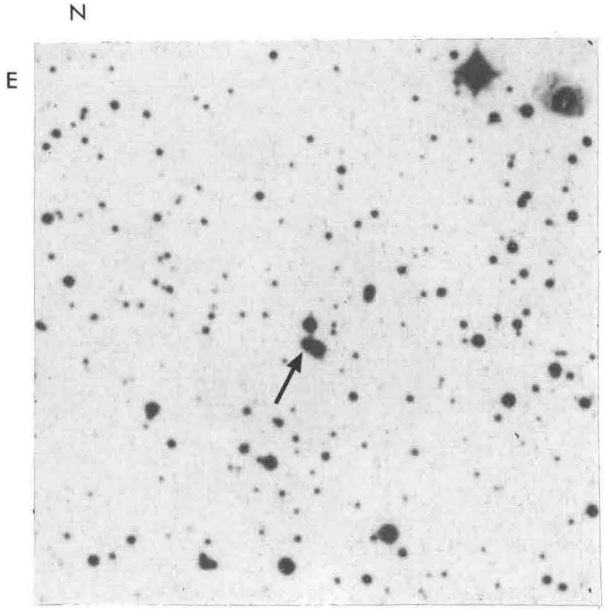
197.8-03.3 A 14 POS E1502



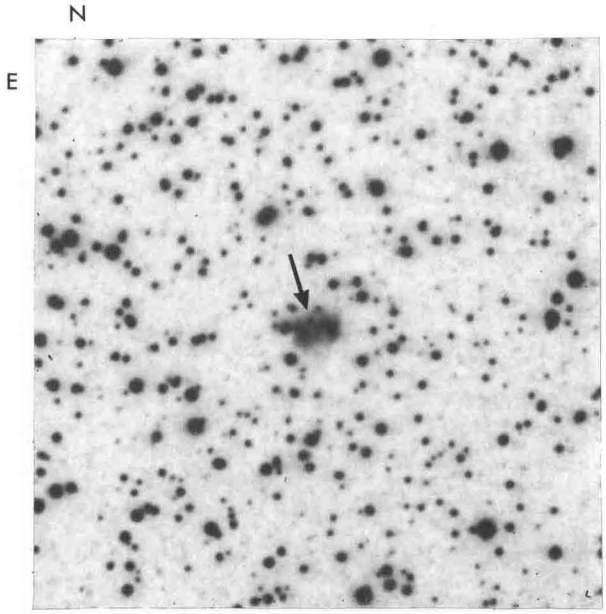
198.6-06.3 A 12 POS E1502



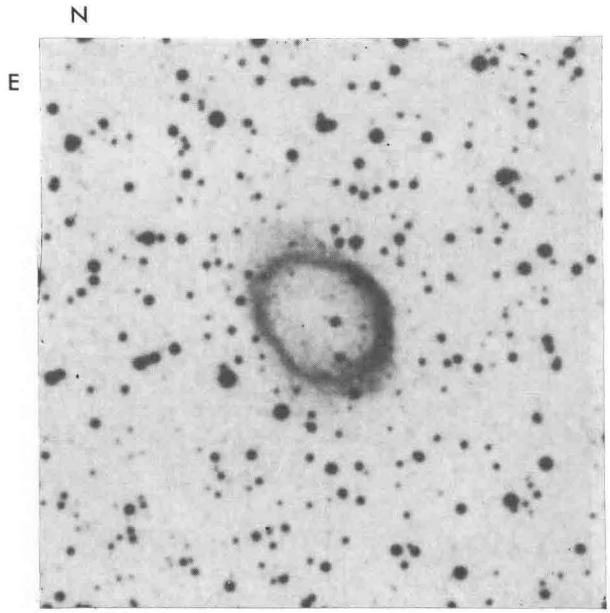
200.7+08.4 A 19 POS E 428



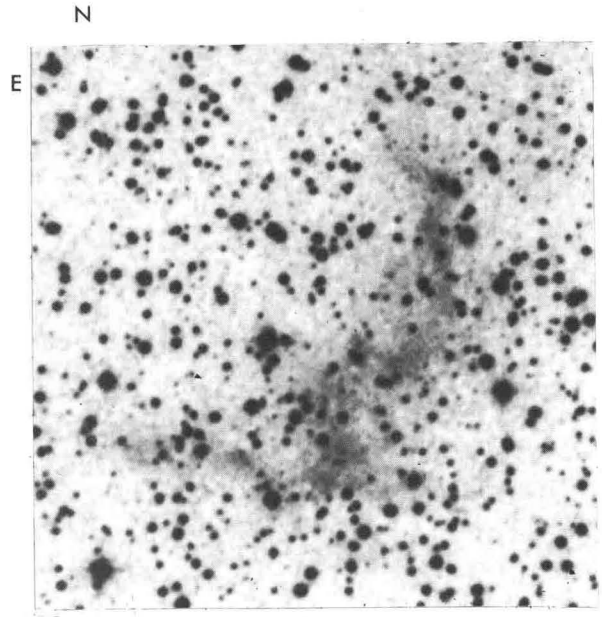
201.7+02.5 K 4-48 POS E 445



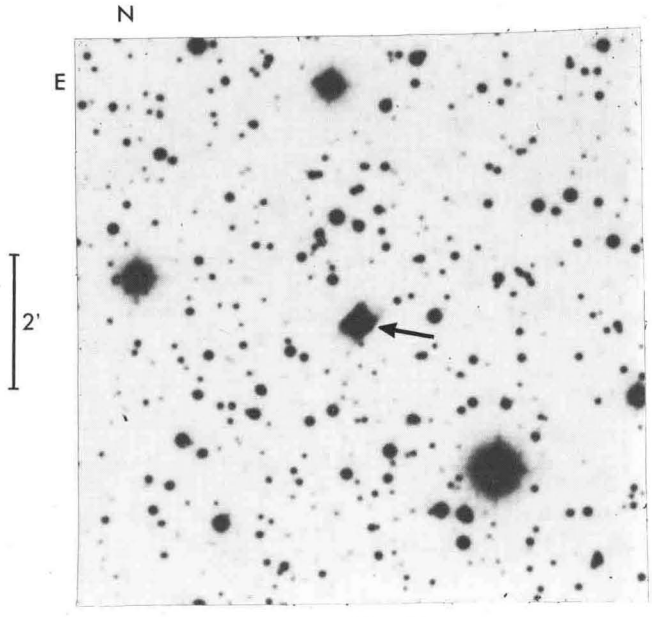
201.9-04.6 We 1- 4 POS E 229



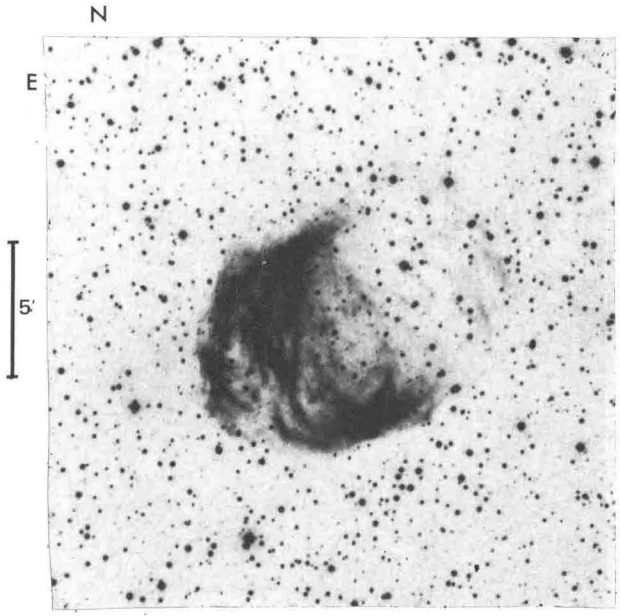
204.0-08.5 A 13 POS E 229



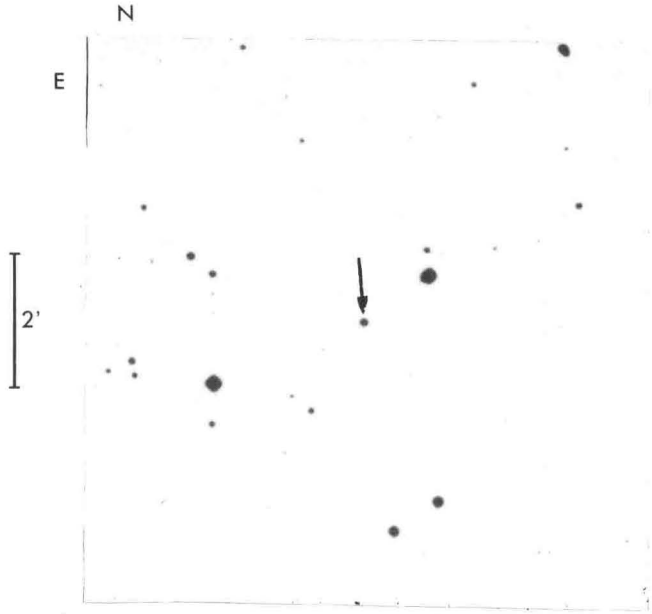
204.1+04.7 K 2- 2 POS E 428



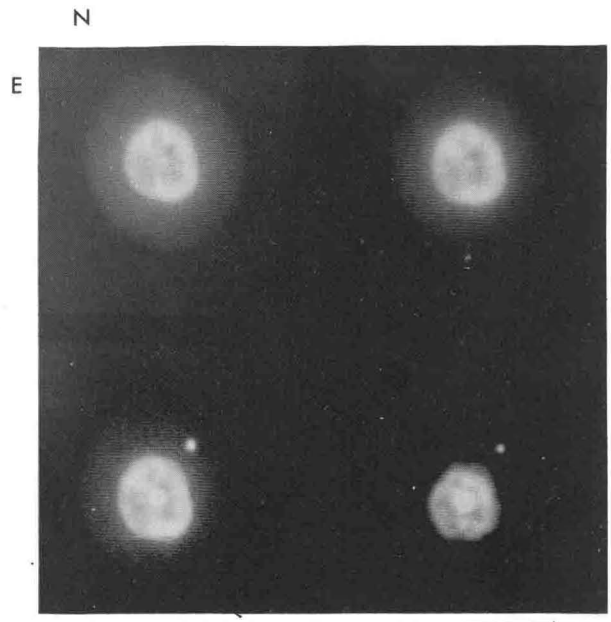
204.8-03.5 K 3-72 POS E 923



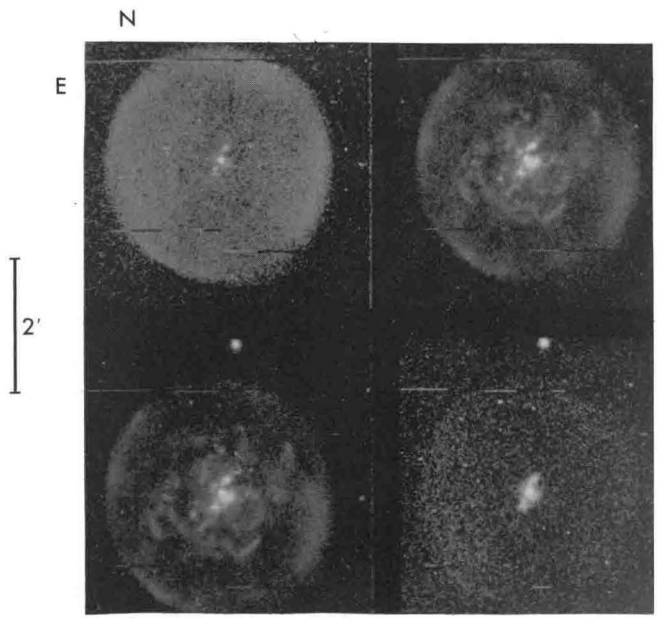
205.1+14.2 A 21 POS E1354



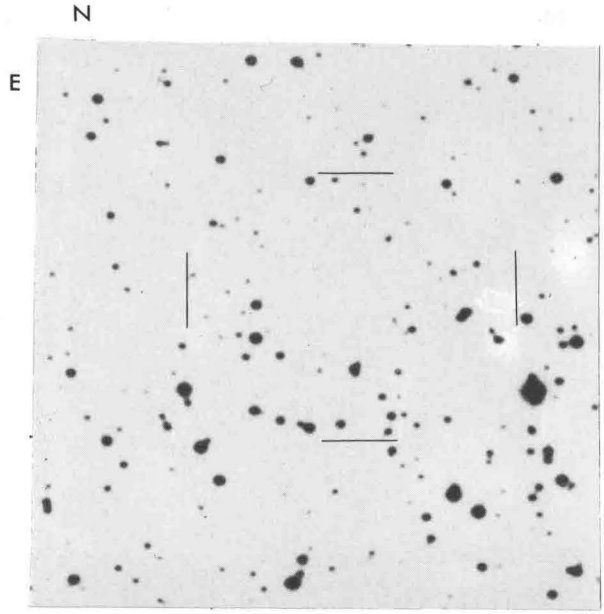
205.8-26.7 MaC 2- 1 POS E1519



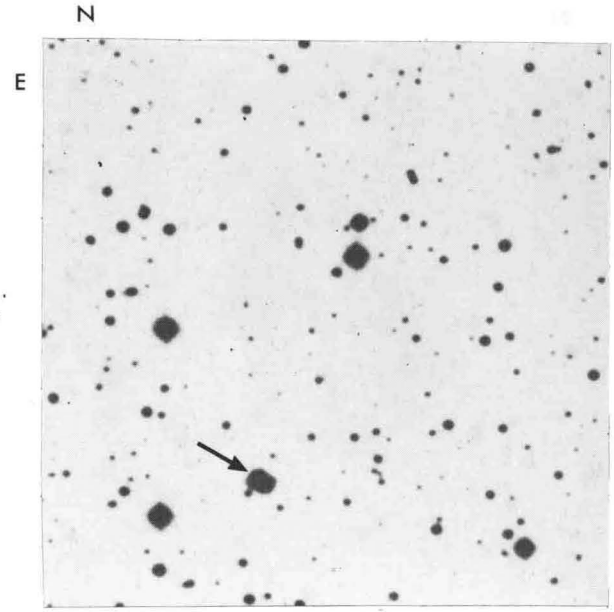
206.4-40.5 NGC 1535 BALICK 87



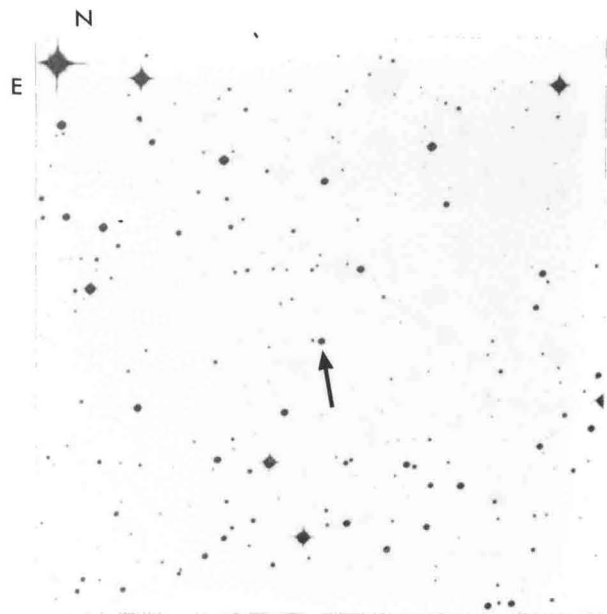
208.5+33.2 A 30 BALICK 87



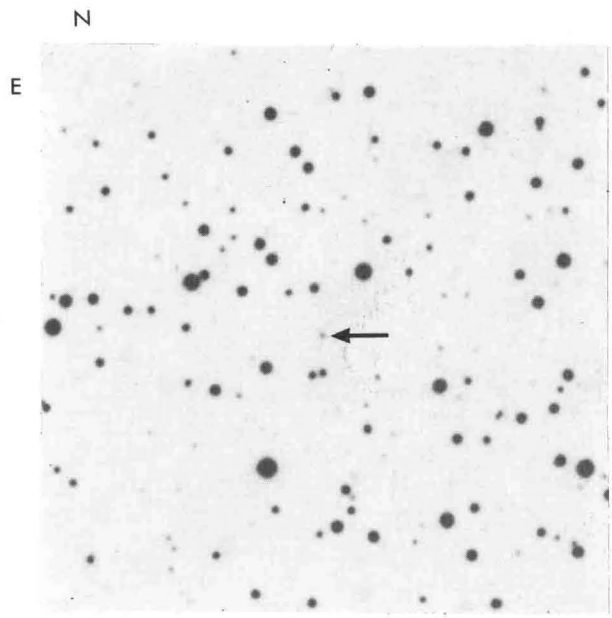
210.0+03.9 We 2- 34 POS E 929



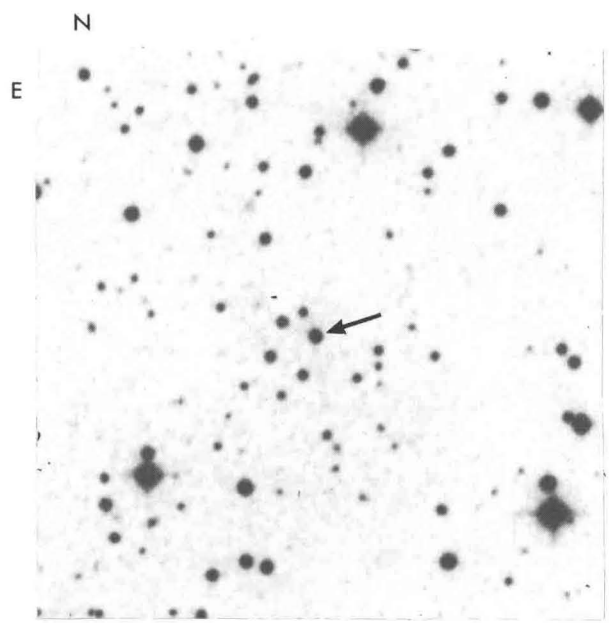
210.3+01.9 M 1- 8 POS E 929



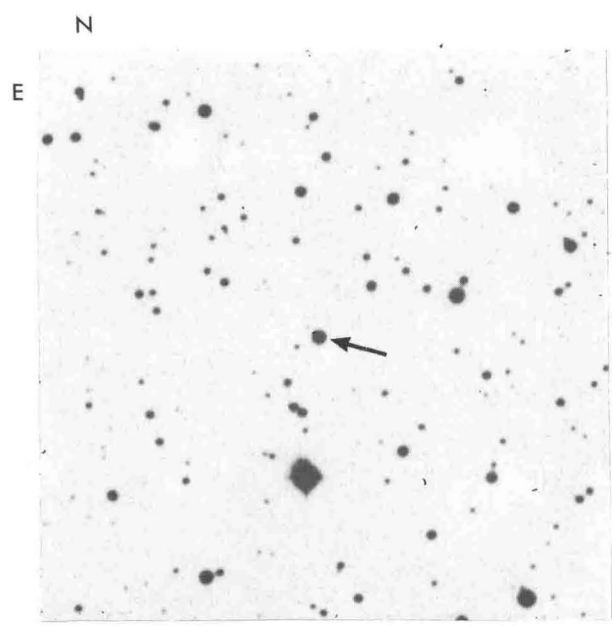
211.2-03.5 M 1- 6 SRC J 843



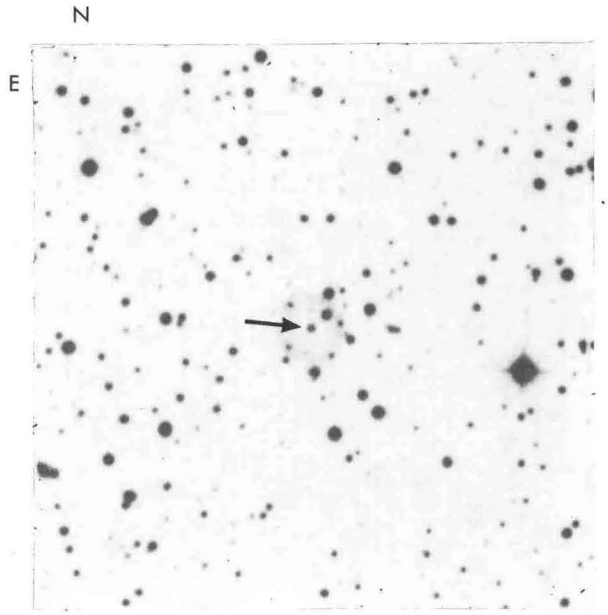
211.4+18.4 HDW 7 POS E1003



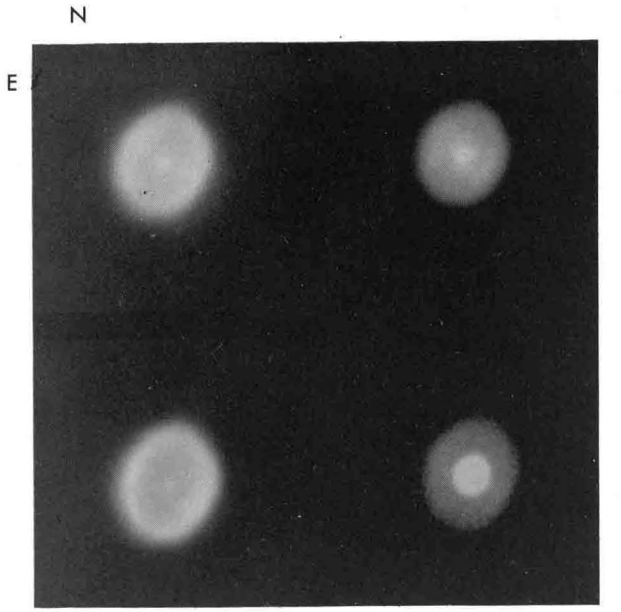
211.9+22.6 EGB 5 POS E 247



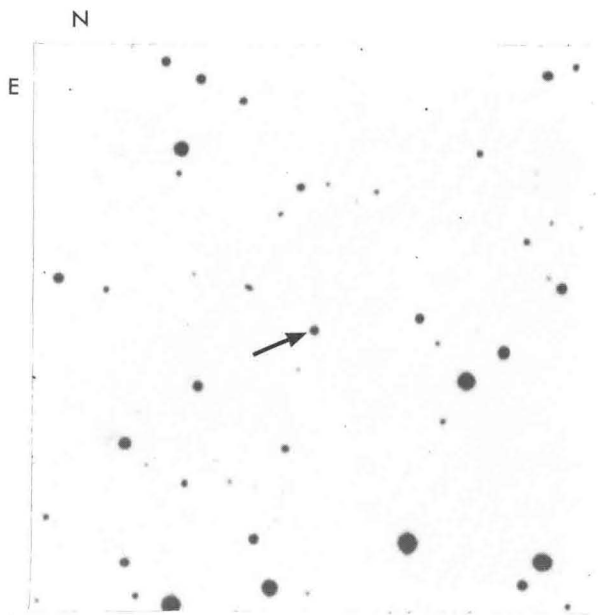
212.0+04.3 M 1- 9 POS E 929



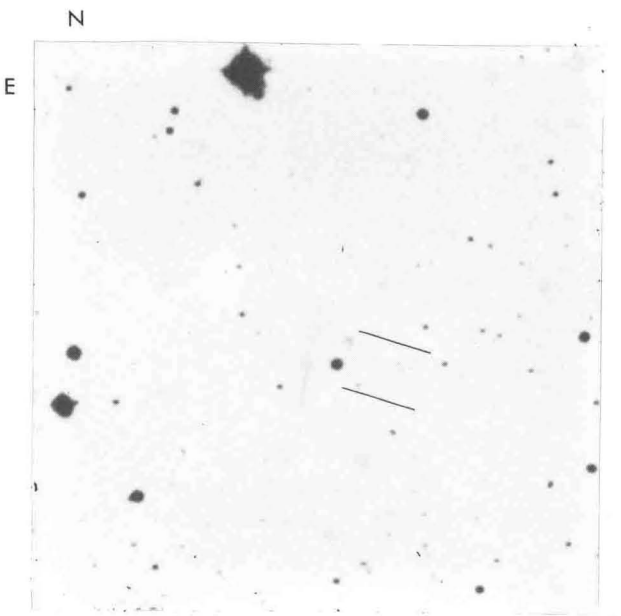
214.9+07.8 A 20 POS E1491



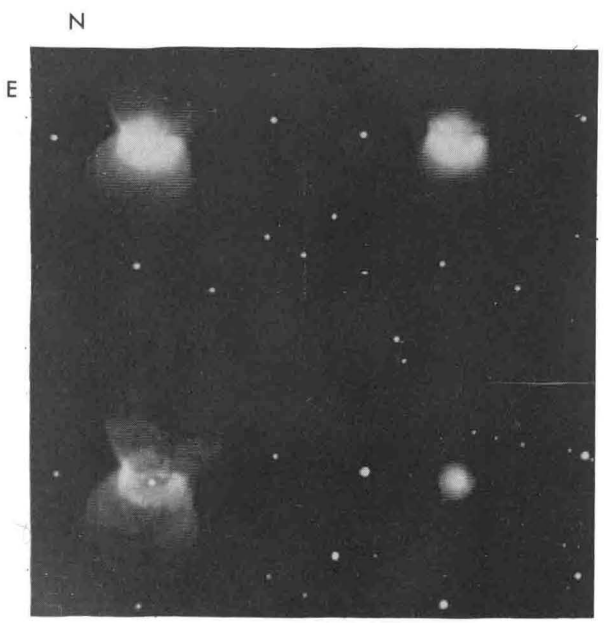
215.2-24.2 IC 418 BALICK 87



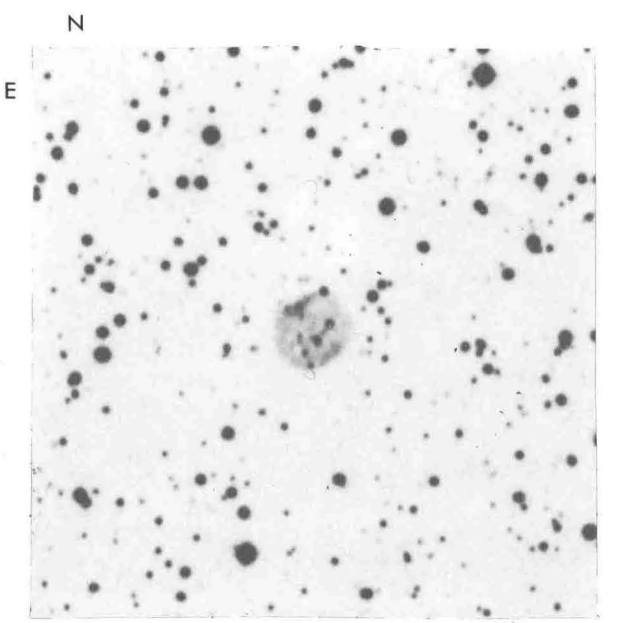
215.5-30.8 A 7 POS E1323



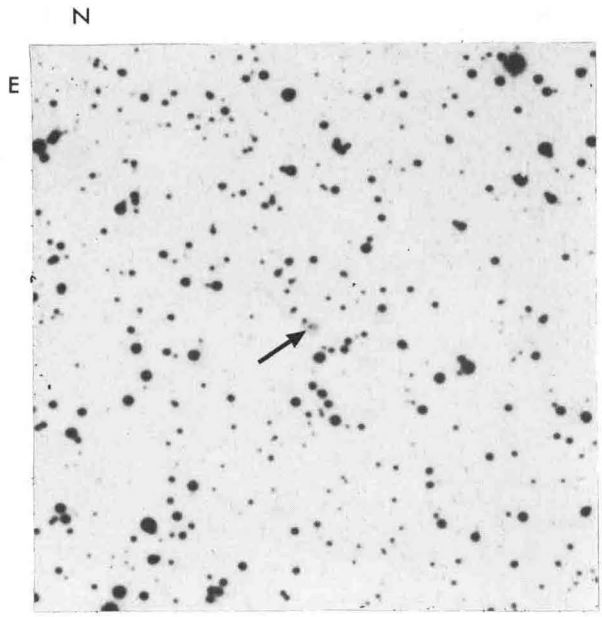
215.6+11.1 K 1-11 POS E1527



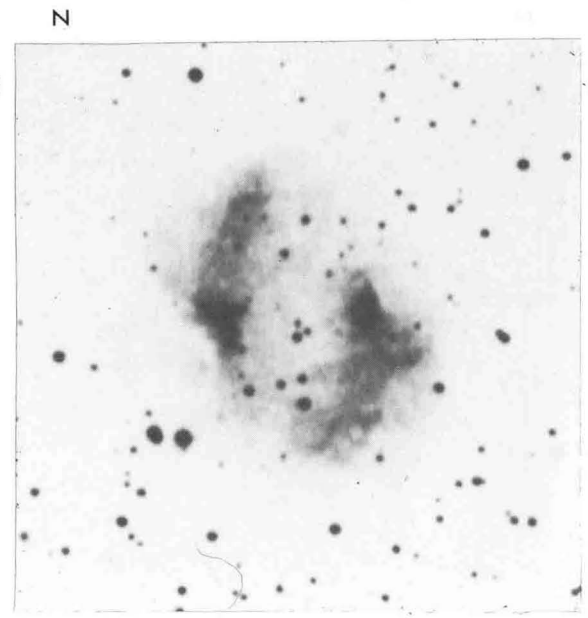
215.6+03.6 NGC 2346 BALICK 87



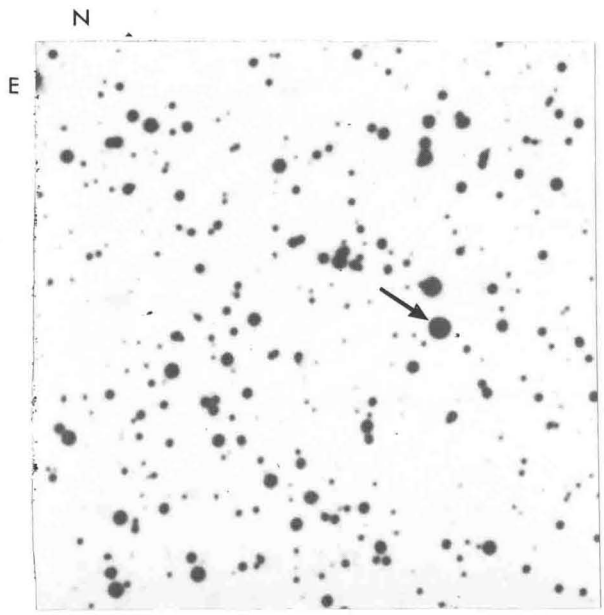
216.0 - 00.2 A 18 POS E1346



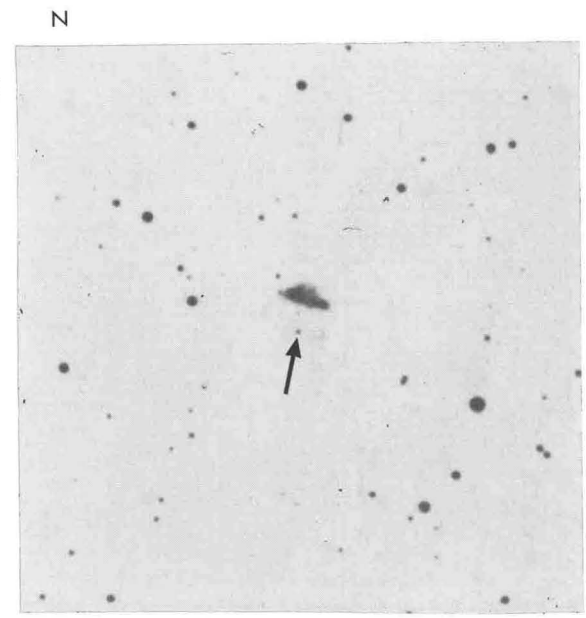
216.3-04.4 We 1- 5 POS E 943



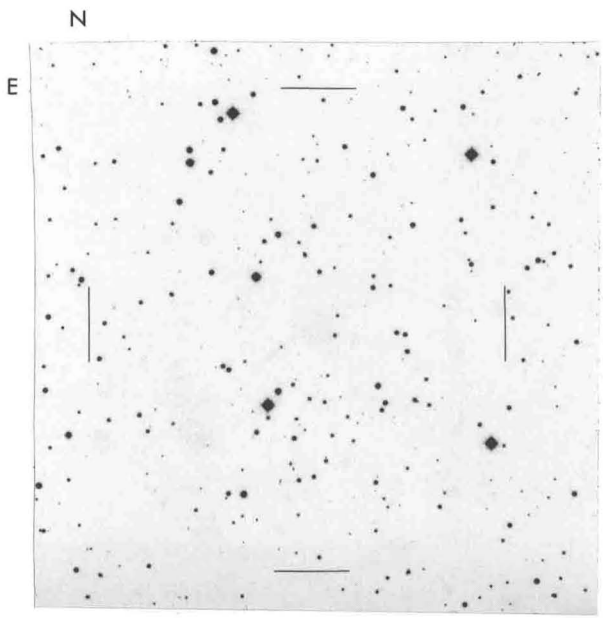
217.1+14.7 A 24 POS E1527



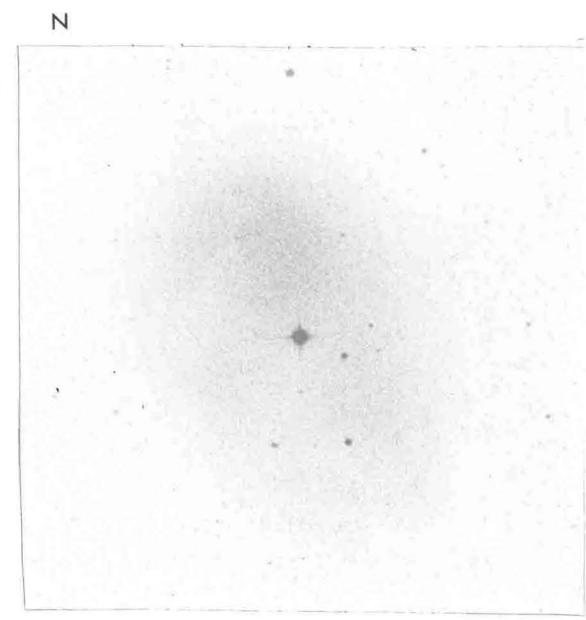
217.4+02.0 St 3-1 POS E1346



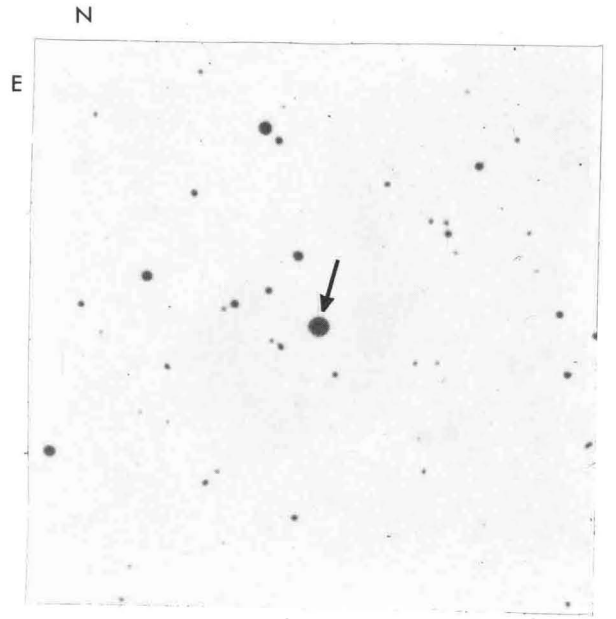
218.9-10.7 HDW 5 POS E1506



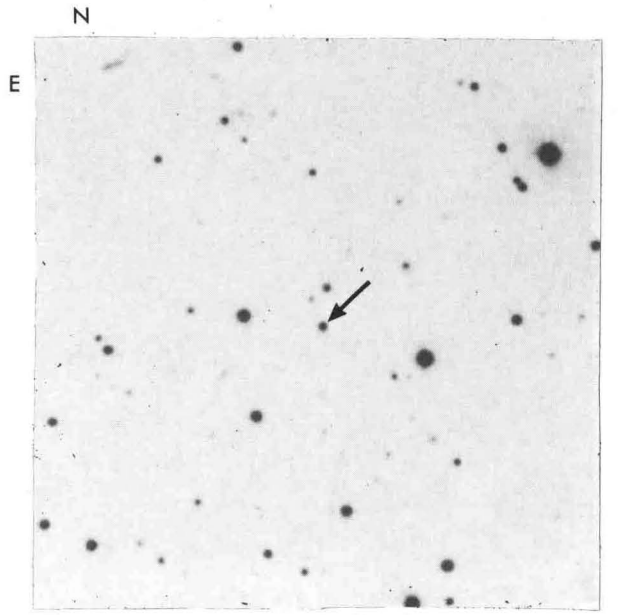
219.1+31.2 A 31 POS E 438



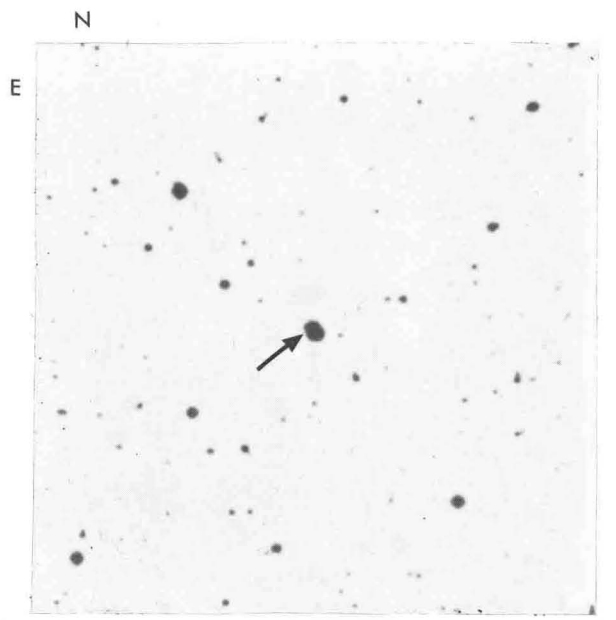
220.3-53.9 NGC 1360 ESO B 482



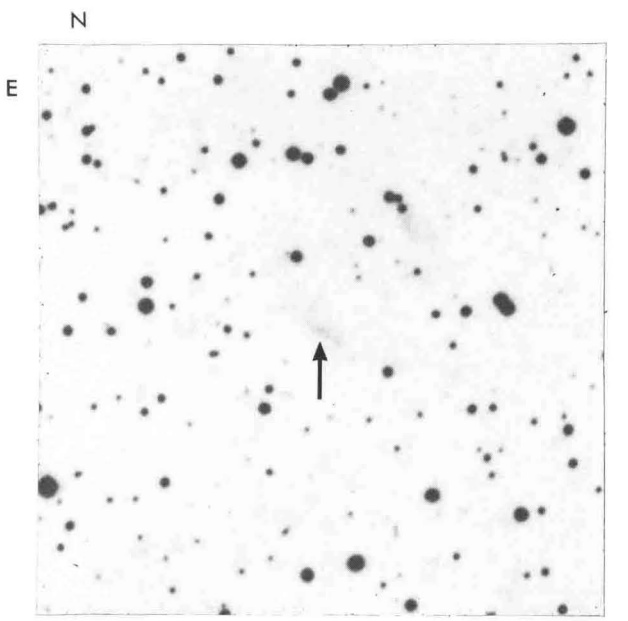
221.3-12.3 IC 2165 POS E1506



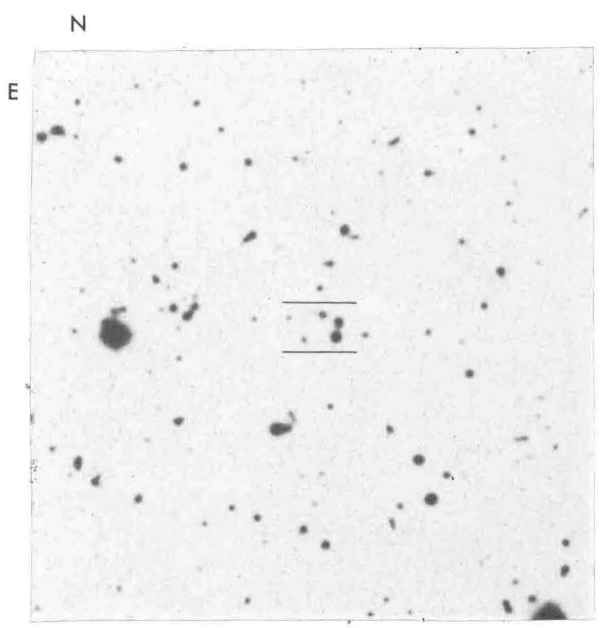
221.5+46.3 EGB 6 POS E 990



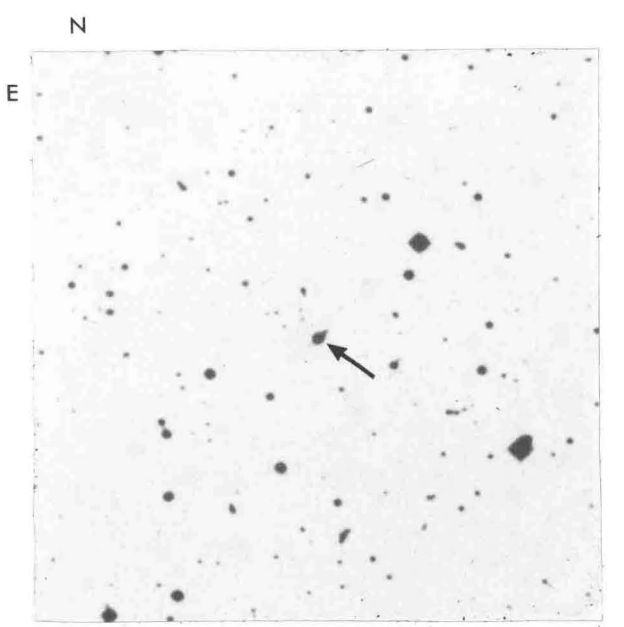
221.7+05.3 M 3- 3 POS E1488



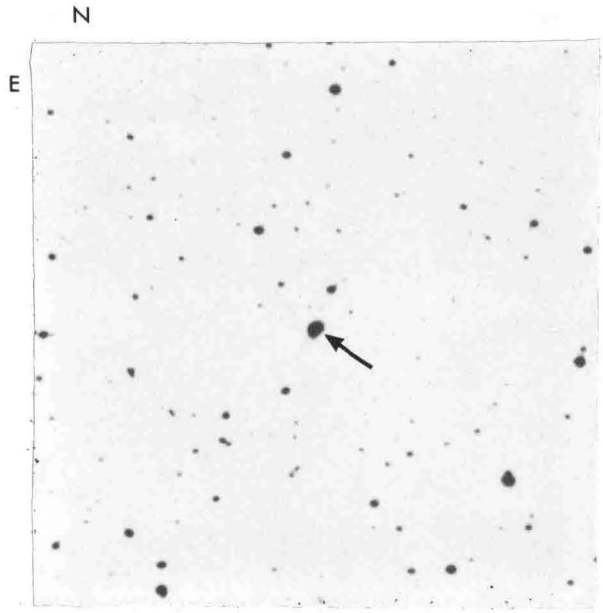
224.3+15.3 K 1-13 POS E1298



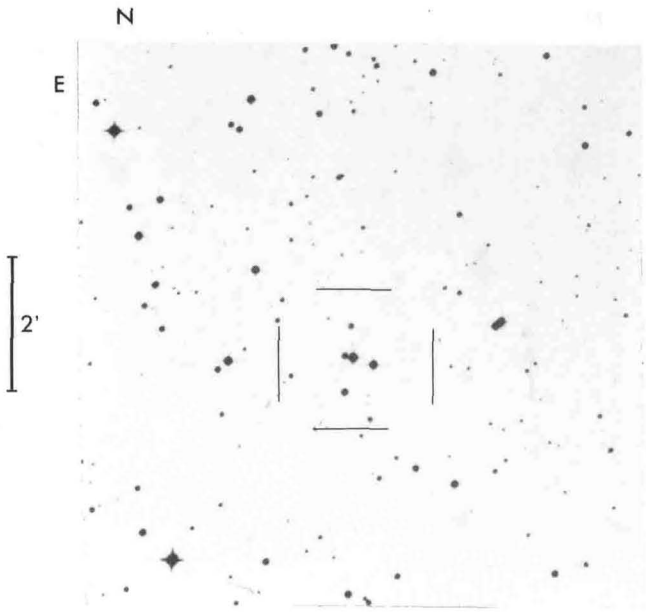
224.9+01.0 We 1- 6 POS E 895



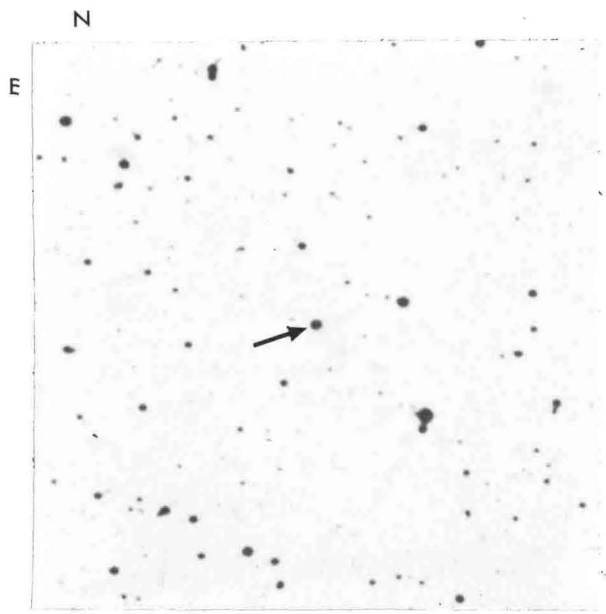
226.4-03.7 PB 1 POS E 436



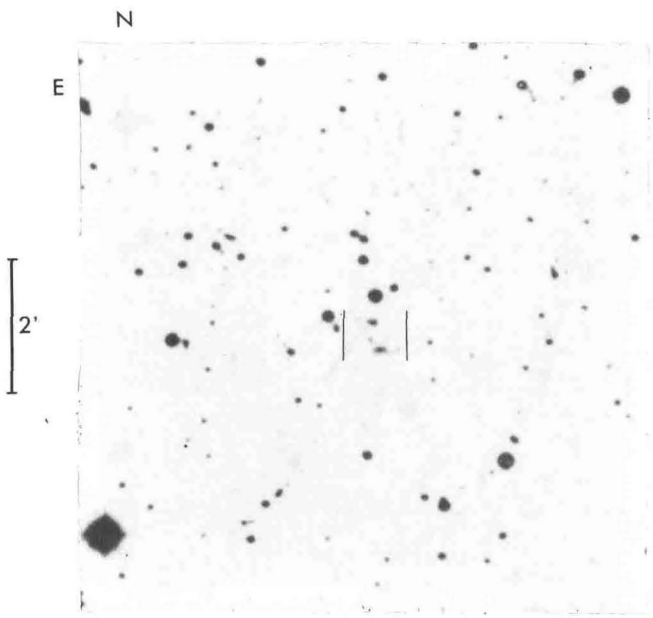
226.7+05.6 M 1-16 POS E1521



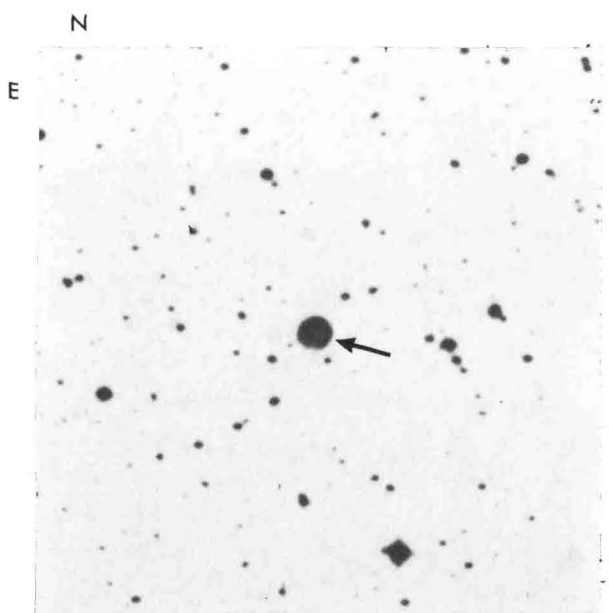
228.2-22.1 DeHt 1 SRC J 488



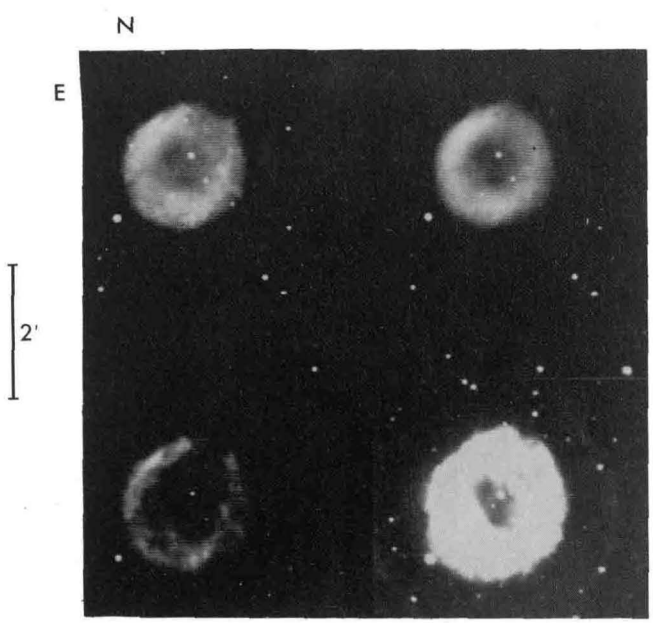
228.8+05.3 M 1-17 POS E1521



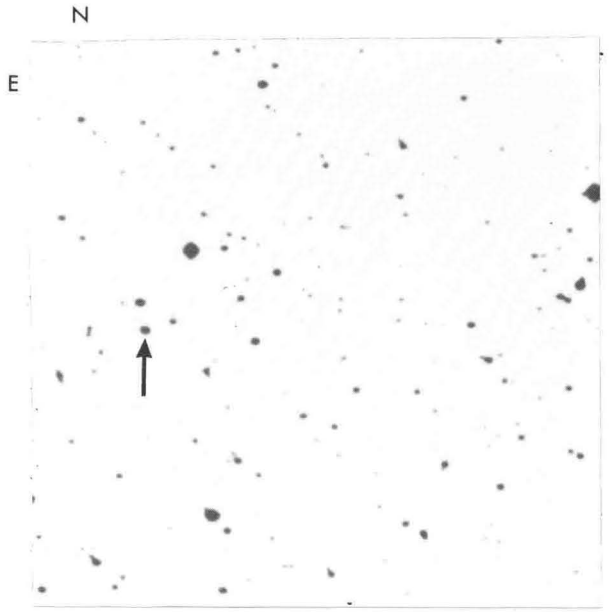
229.6-02.7 K 1-10 POS E 647



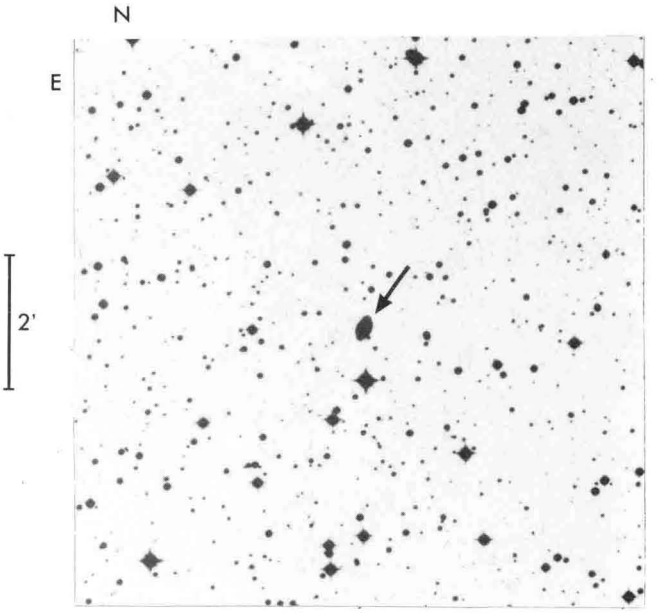
231.4+04.3 M 1-18 POS E1521



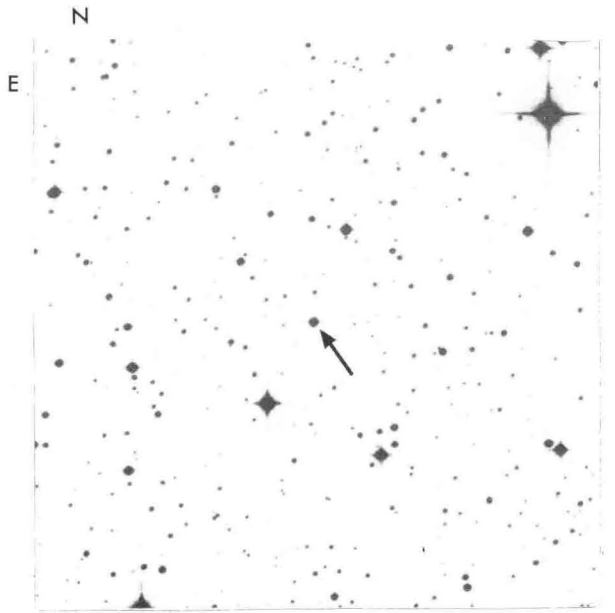
231.8+04.1 NGC 2438 BALICK 87



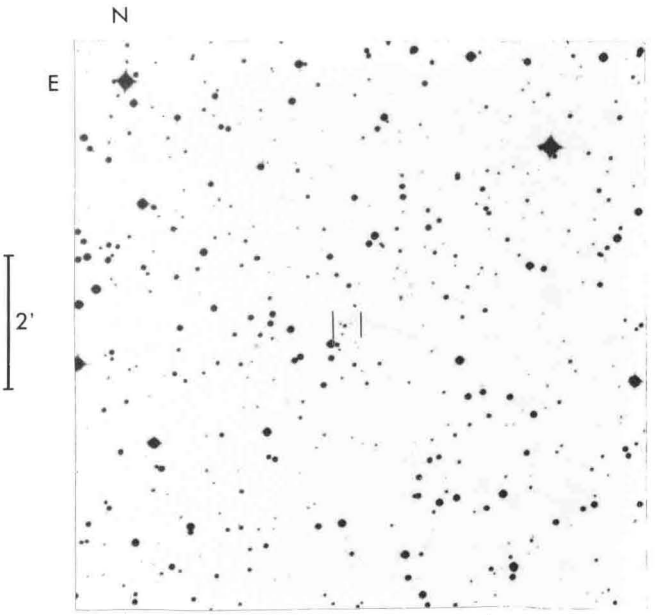
232.0+05.7 SaSt 2- 3 POS E1521



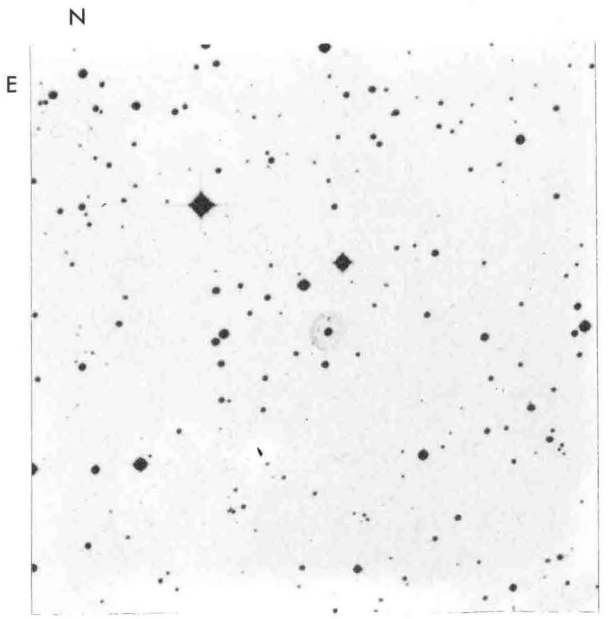
232.4-01.8 M 1-13 SRC J 559



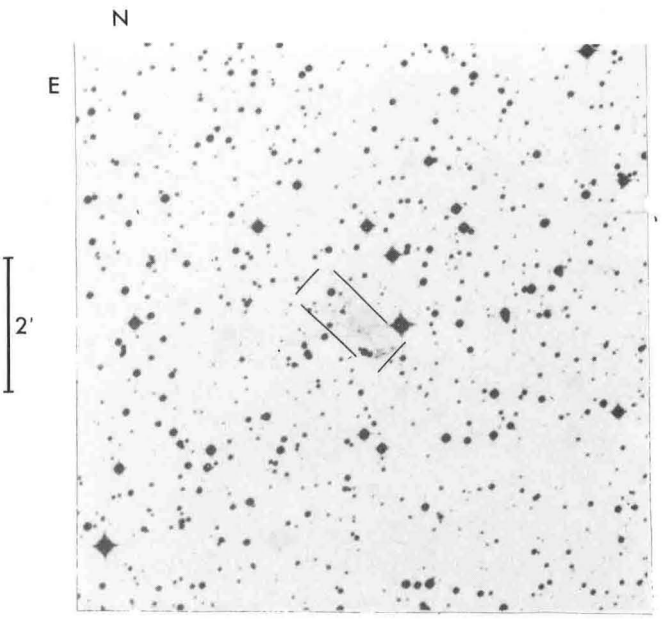
232.8-04.7 M 1-11 SRC J 558



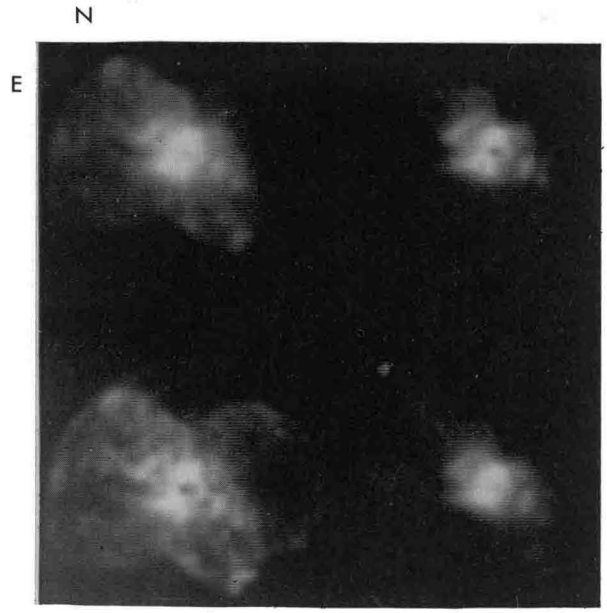
233.0-10.1 SaWe 1 SRC J 558



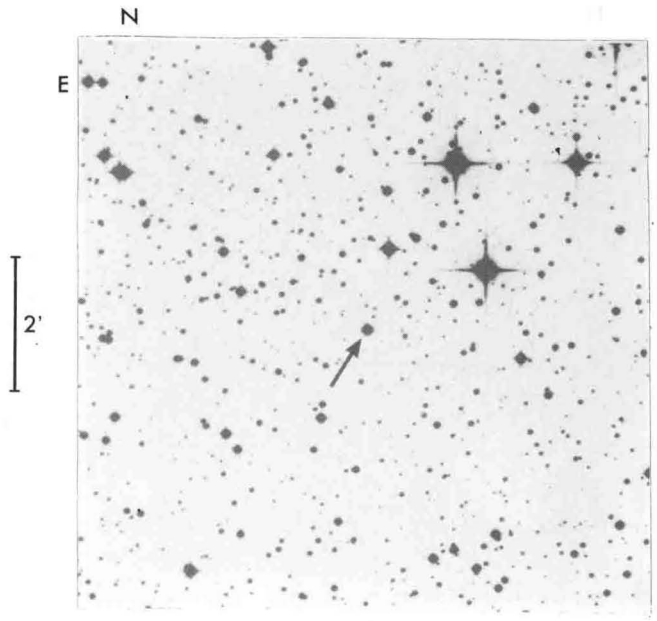
233.5-16.3 A 15 SRC J 489



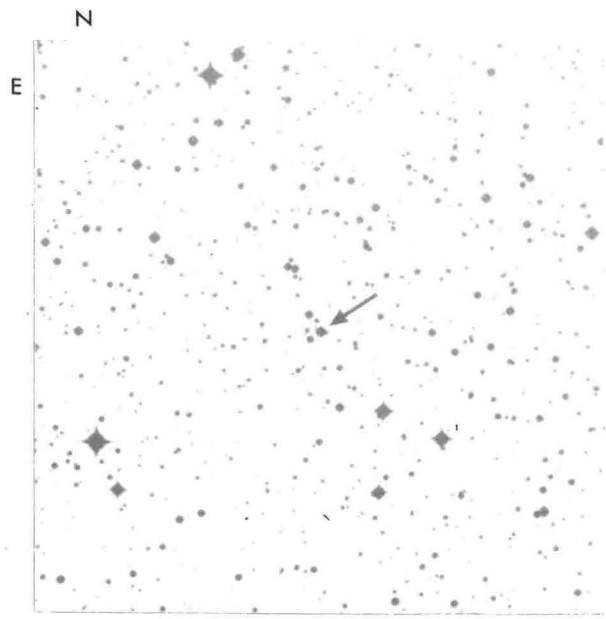
234.3-06.6 K 2-3 SRC J 558



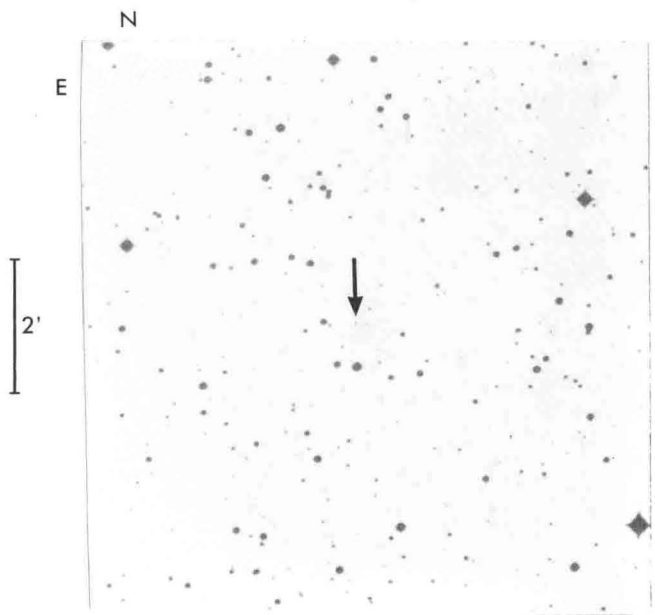
234.8+02.4 NGC 2440 BALICK 87



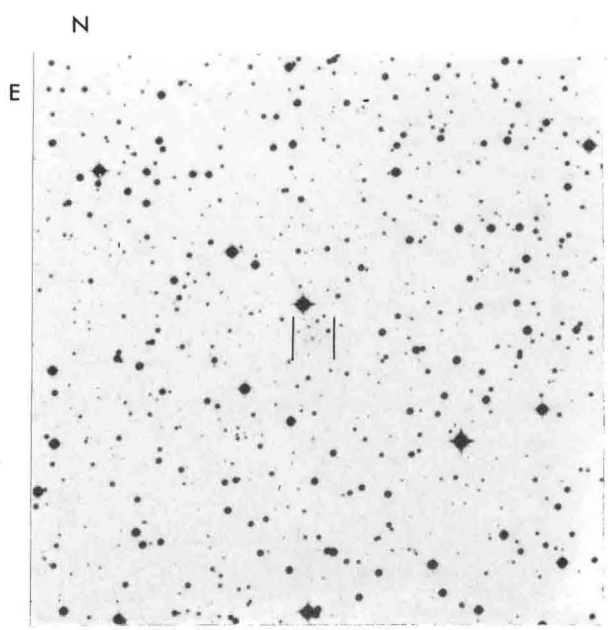
234.9-01.4 M 1-14 SRC J 559



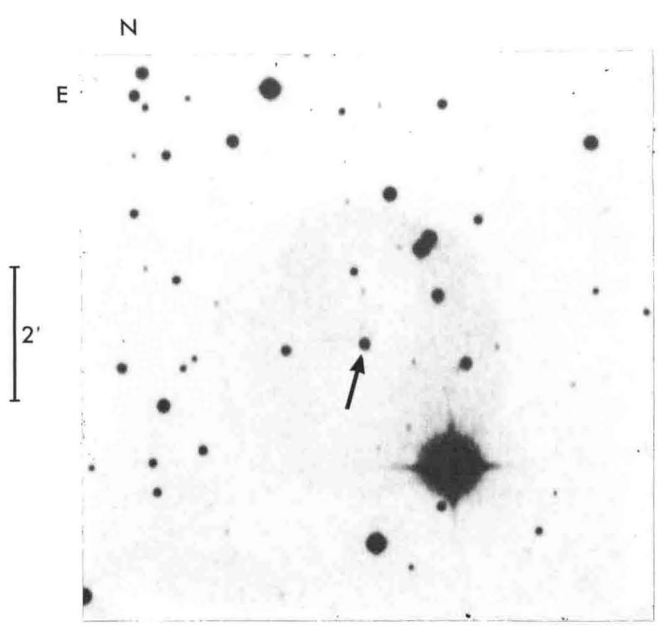
235.3-03.9 M 1-12 SRC J 559



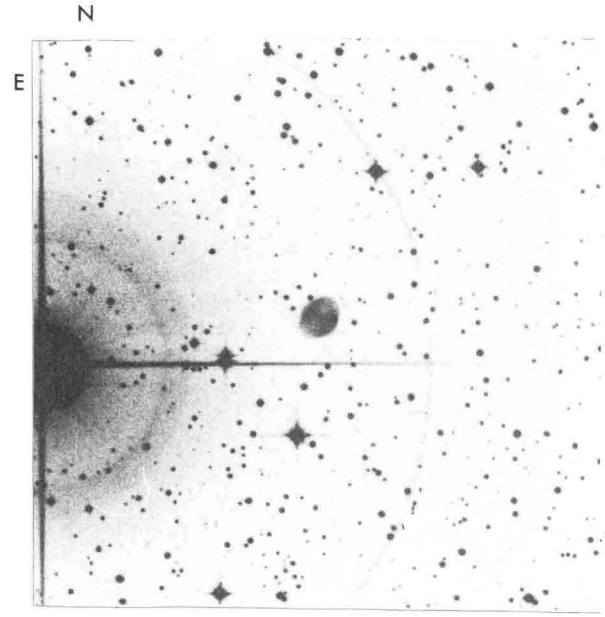
236.0-10.6 HaWe 9 SRC J 490



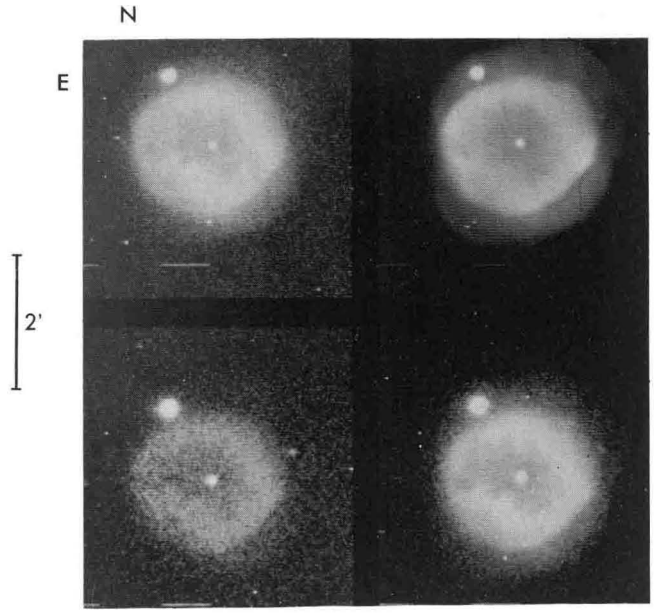
236.7+03.5 K 1-12 SRC J 560



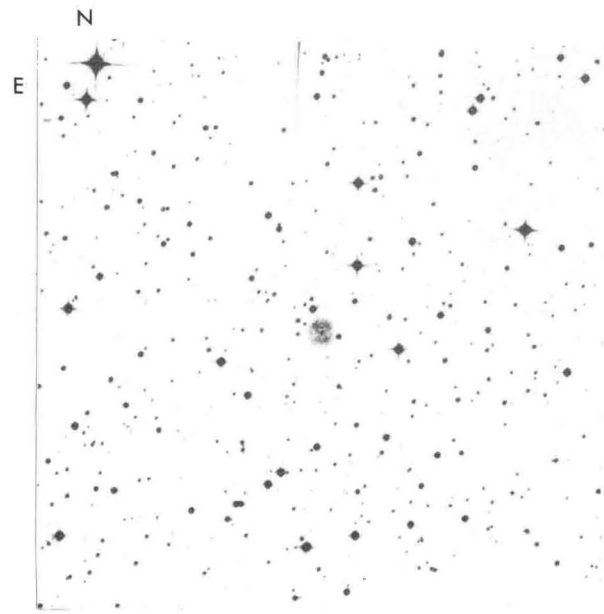
238.0+34.8 A 33 POS E1318



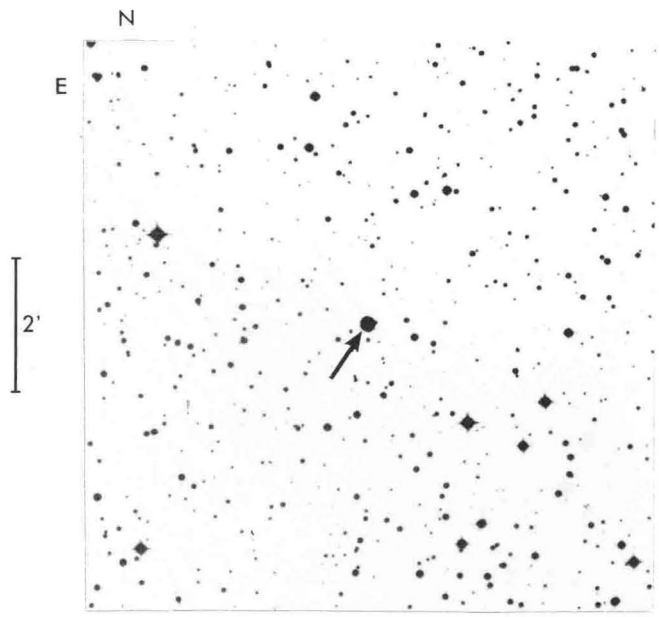
238.9+07.3 Sa 2- 21 ESO R 561



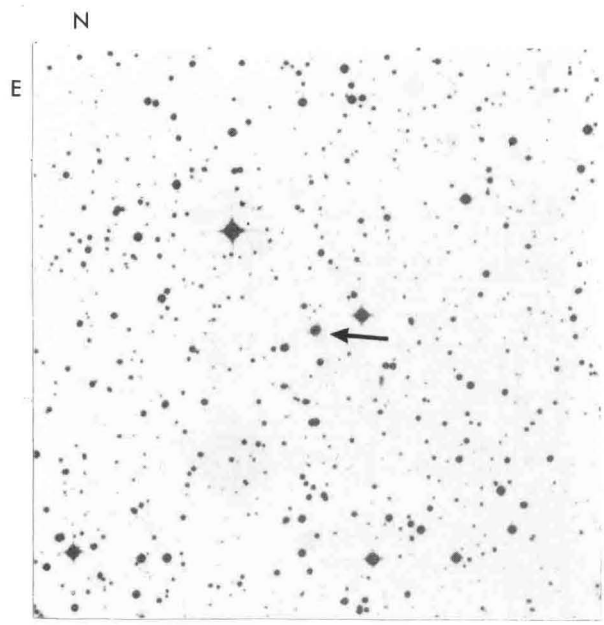
239.6+13.9 NGC 2610 BALICK 87



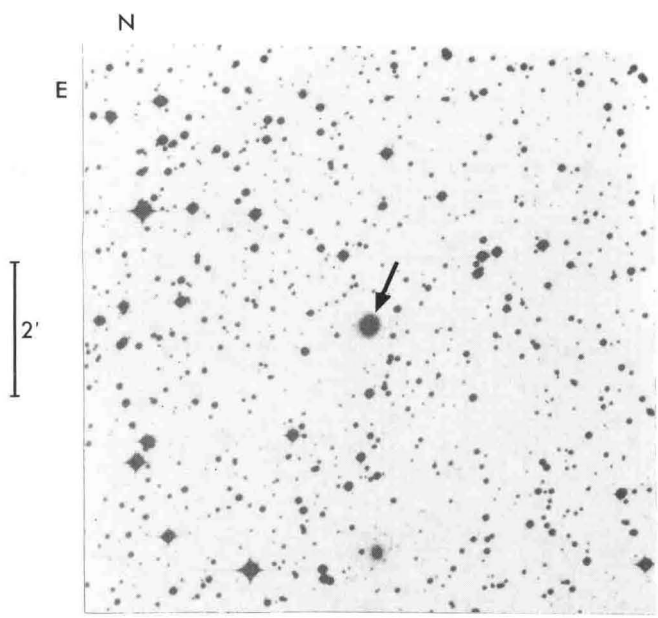
239.6-12.0 ESO 427-19 SRC J 427



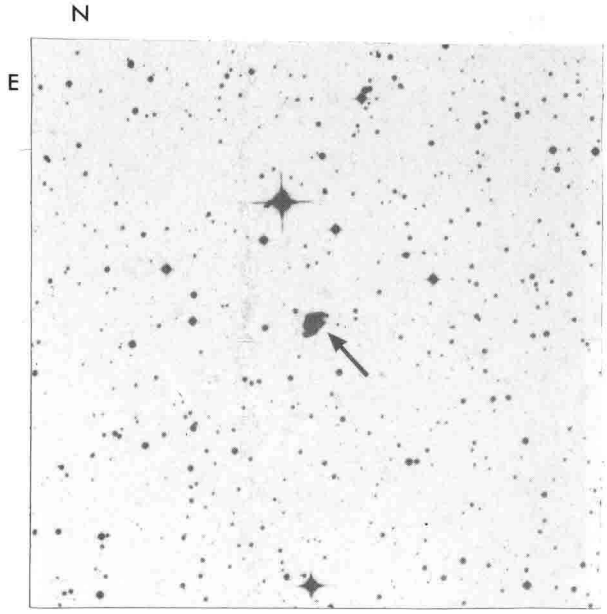
240.3+07.0 Y-C 2- 5 SRC J 561



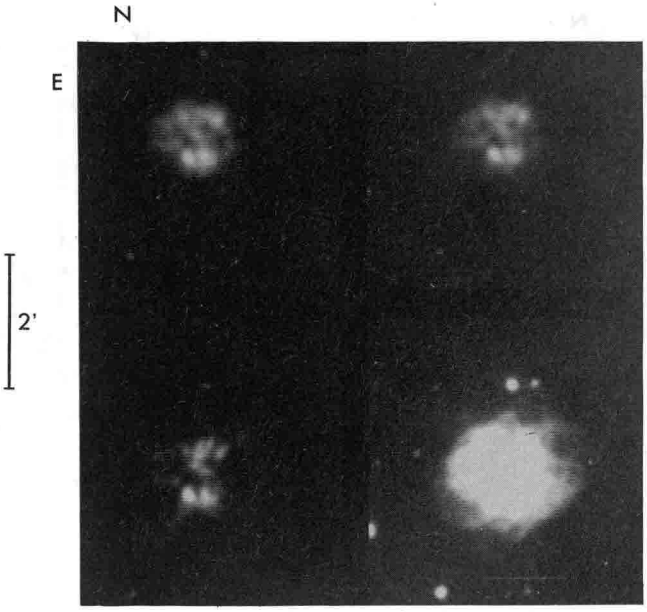
240.3-07.6 M 3- 2 SRC J 428



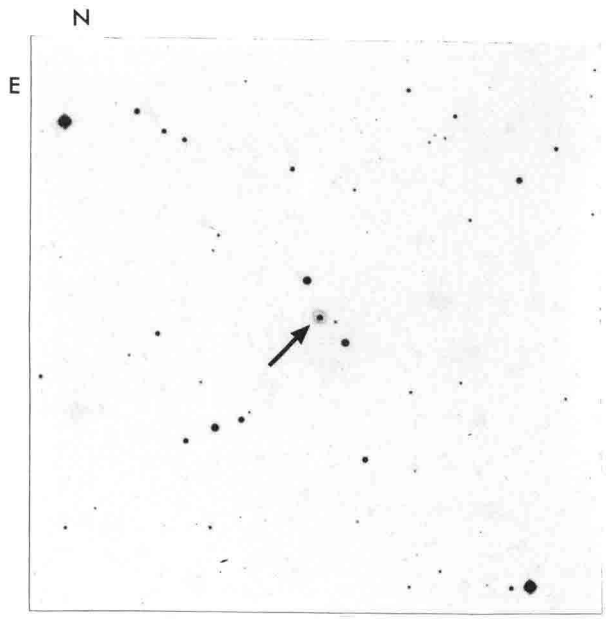
241.0+02.3 M 3- 4 SRC J 494



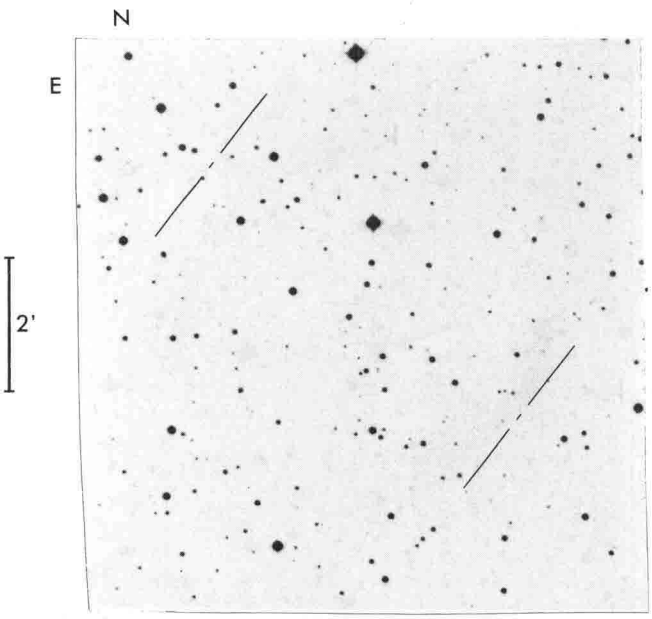
242.6-11.6 M 3- 1 SRC J 427



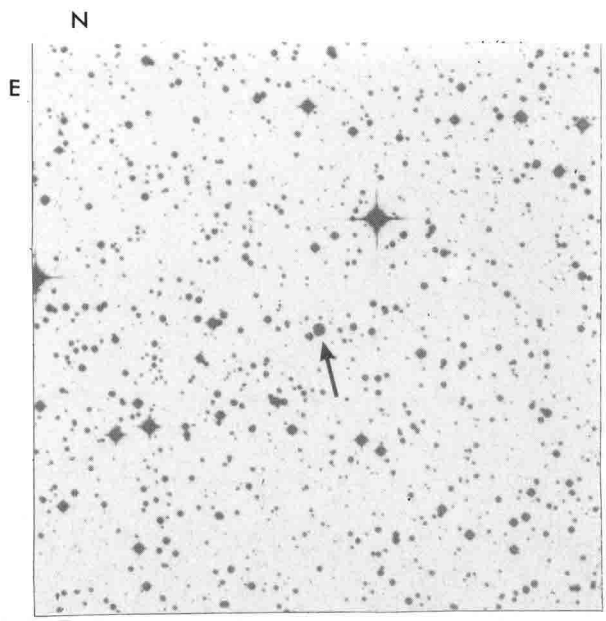
243.3-01.0 NGC 2452 BALICK 87



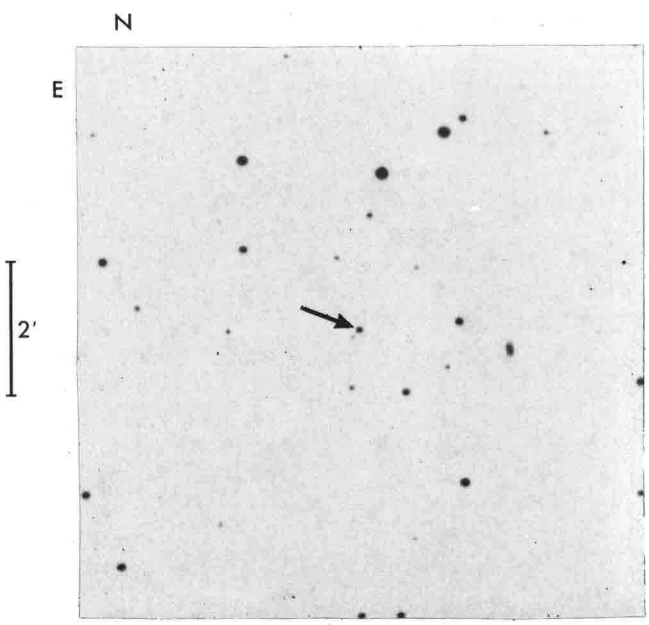
243.8-37.1 PRTM 1 ESO R 305



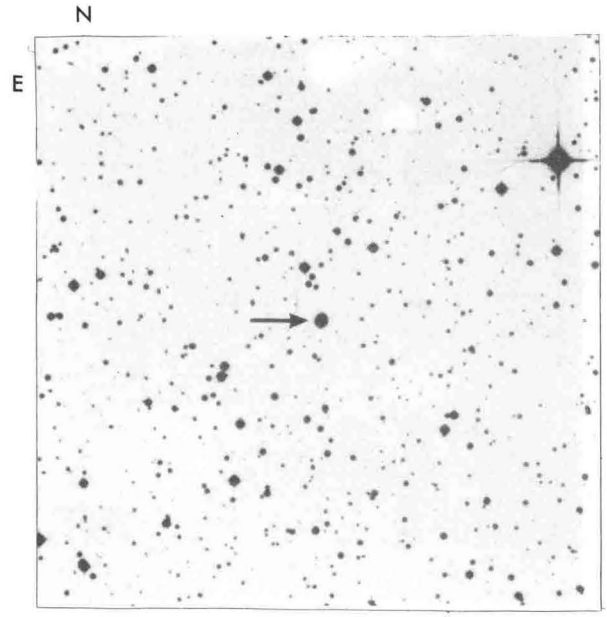
244.5+12.5 A 29 SRC J 563



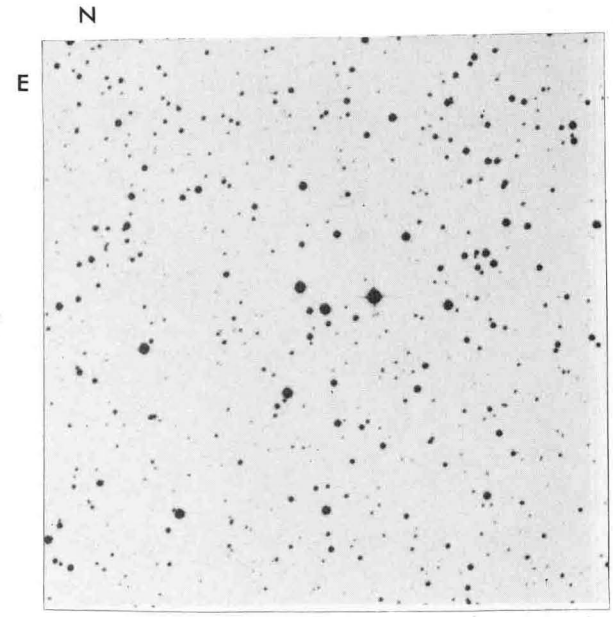
245.4+01.6 M 3- 5 SRC J 430



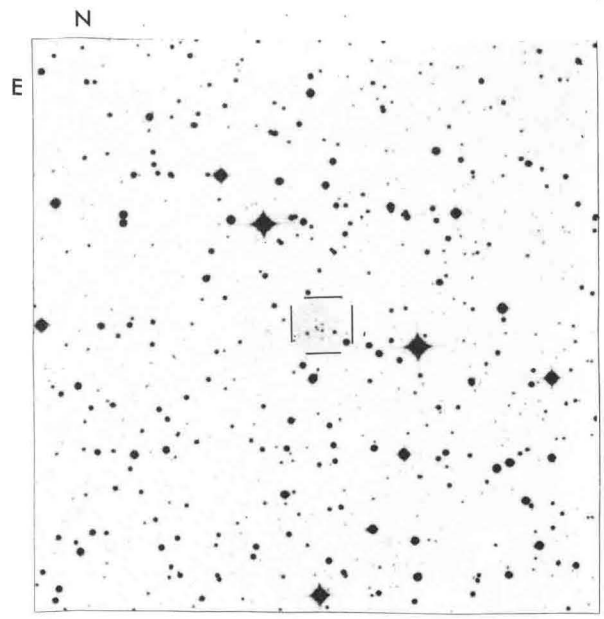
248.7+29.5 A 34 POS E1536



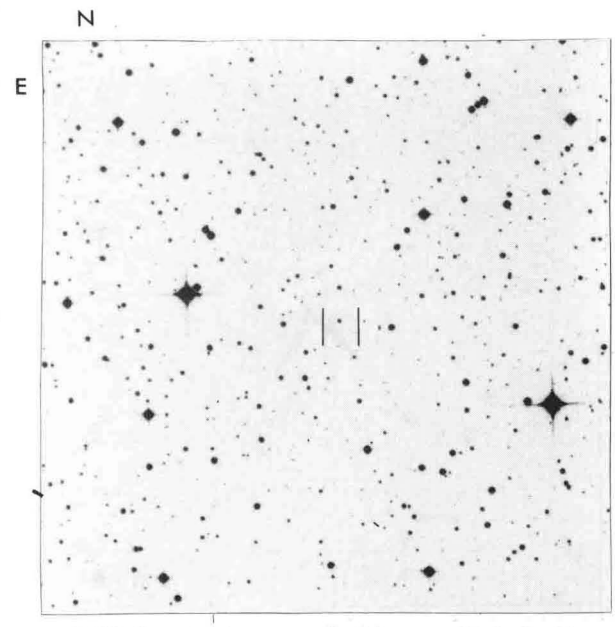
248.8-08.5 M 4- 2 SRC J 368



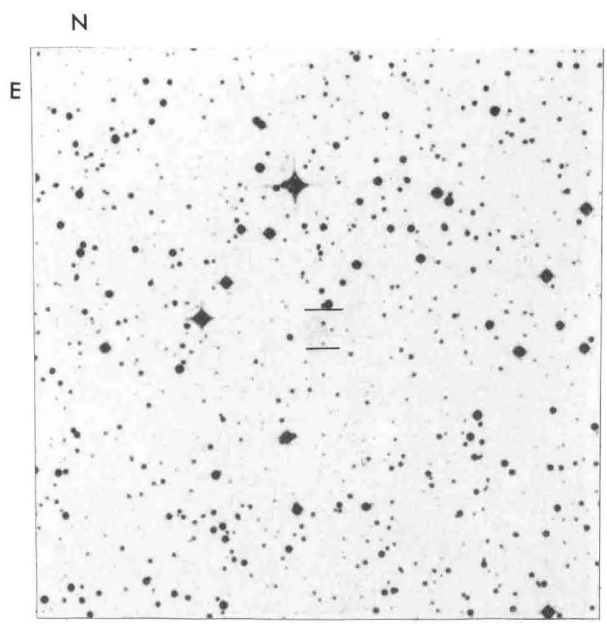
249.0+06.9 SaSt 1- 1 ESO B 431



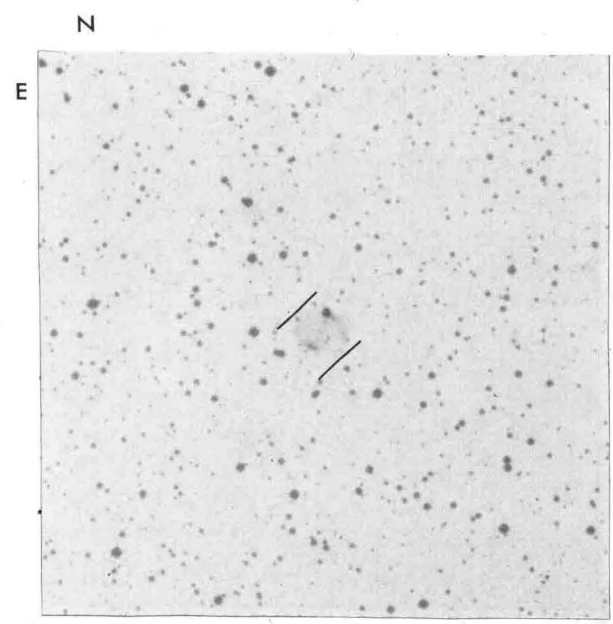
249.3-05.4 A 23 SRC J 368



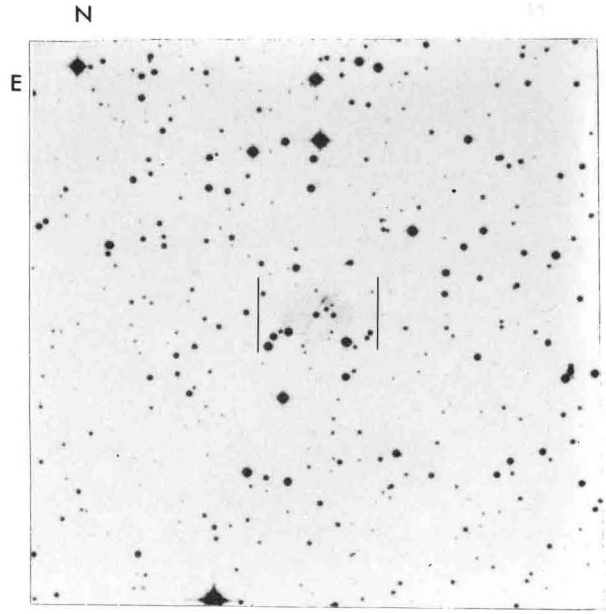
250.3+00.1 A 26 SRC J 430



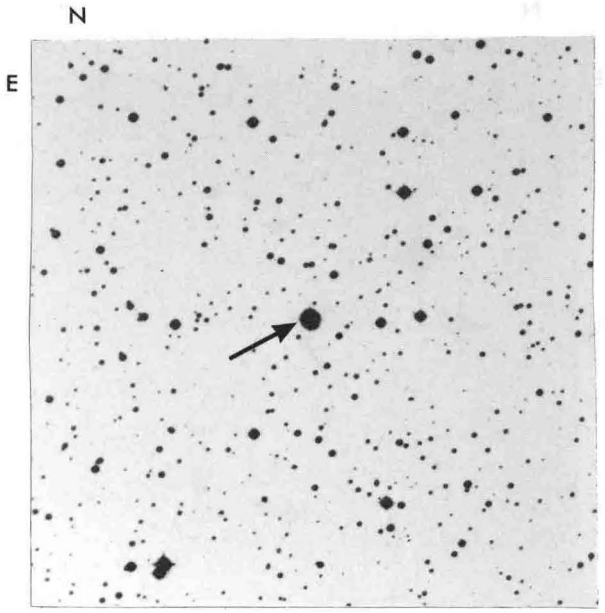
251.1-01.5 K 1-21 SRC J 369



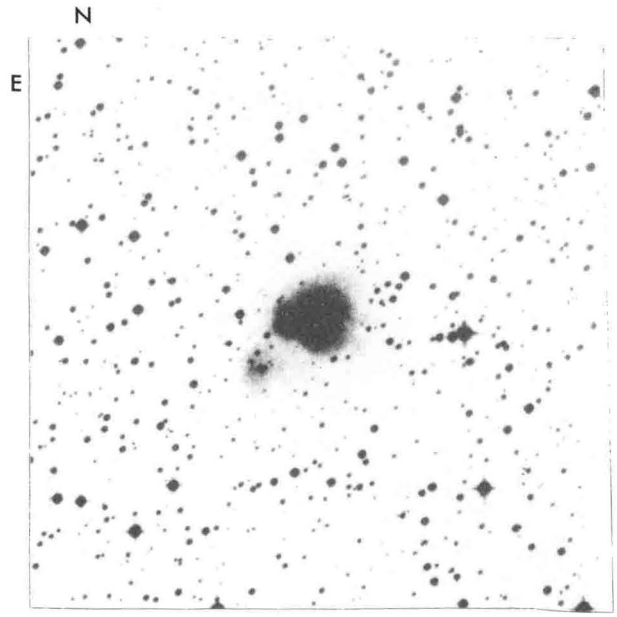
252.6+04.4 K 1- 1 ESO R 431



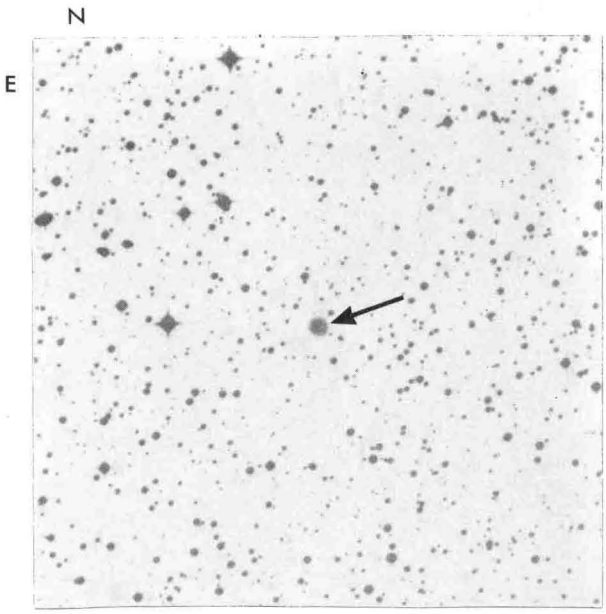
253.5+10.7 K 1- 2 SRC J 432



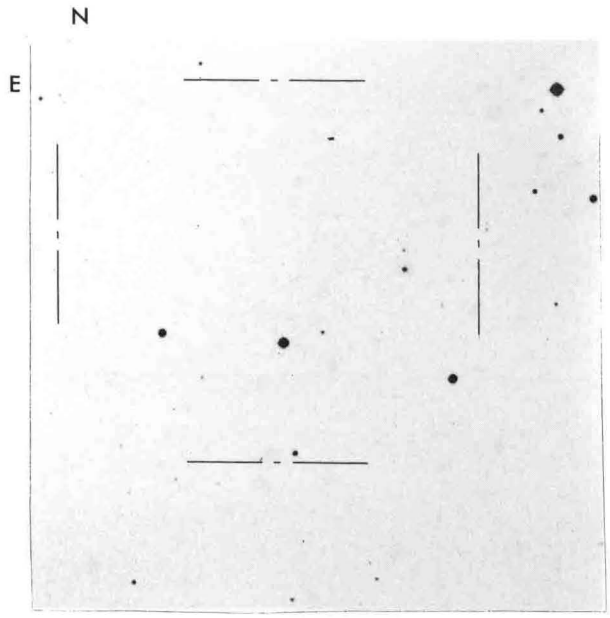
253.9+05.7 M 3- 6 SRC J 432



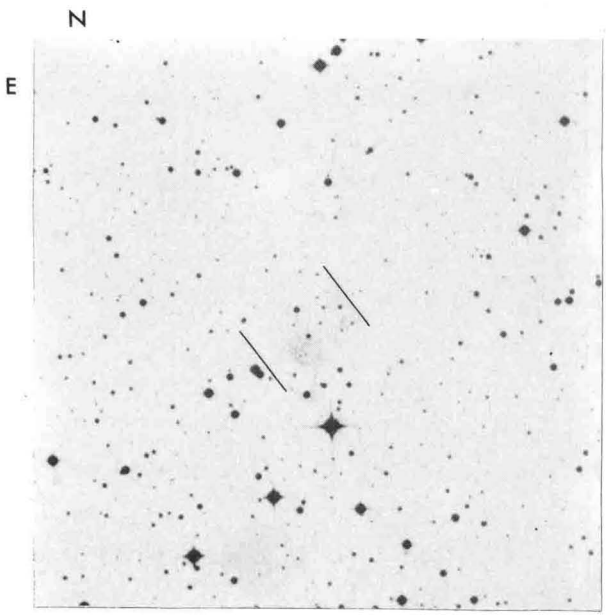
254.6+00.2 Ns 238 SRC J 370



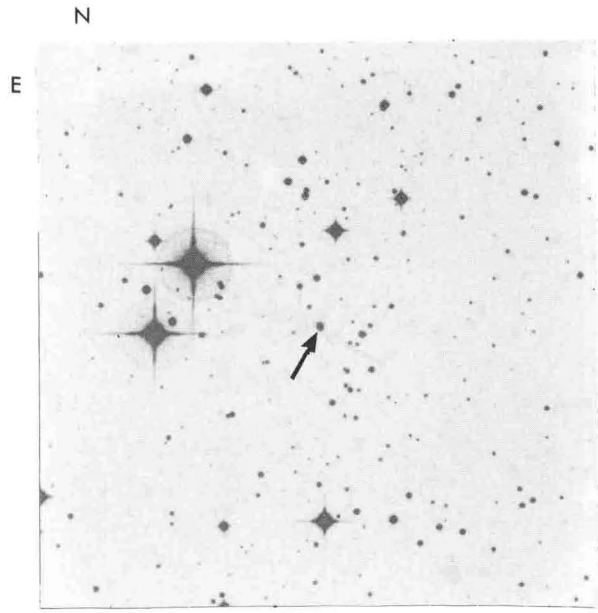
255.7+03.3 Wray 16- 22 SRC J 370



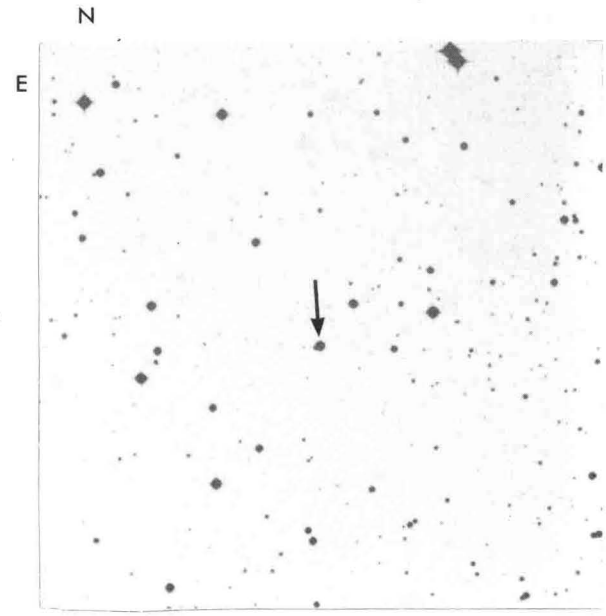
255.3-59.6 Lo 1 SRC J 247



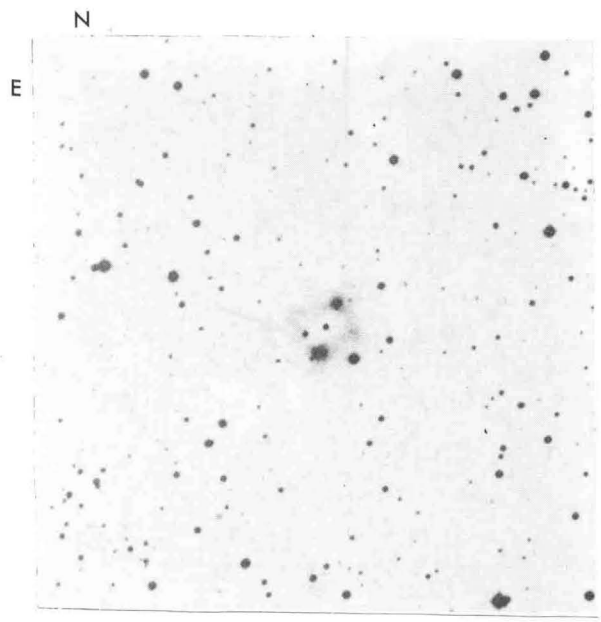
257.5+00.6 VBRC 1 ESO R 313



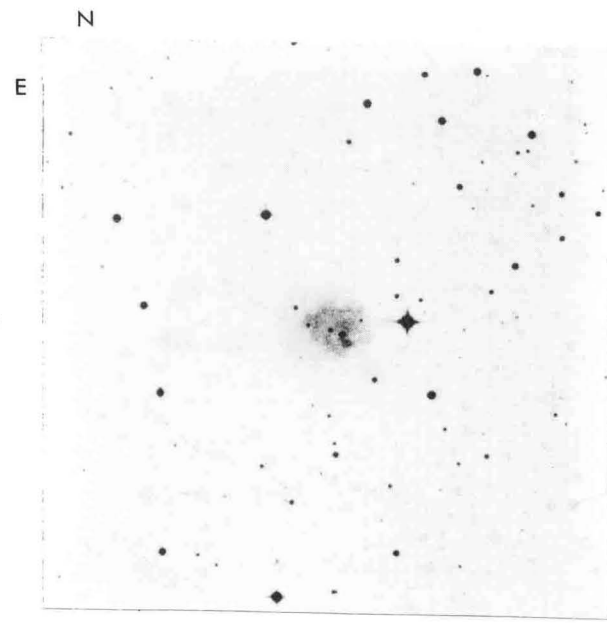
257.1-02.6 Vo 2 SRC J 312



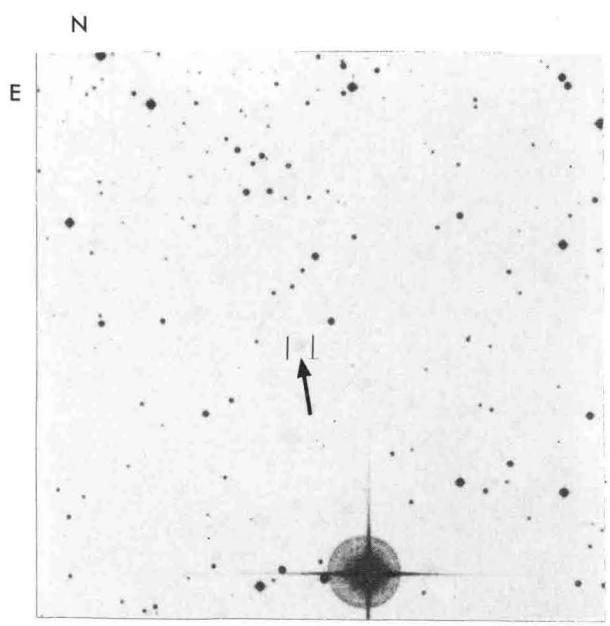
258.1 - 00.3 He 2- 9 SRC J 312



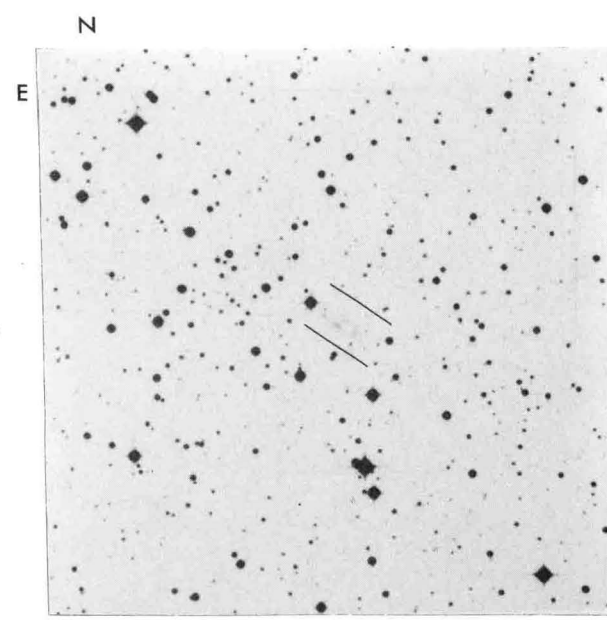
258.0-15.7 Wray 17- 1 SRC J 256



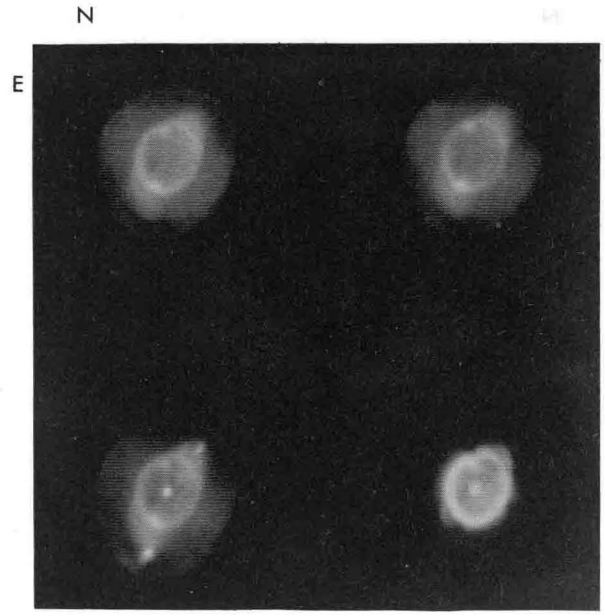
259.1+00.9 He 2- 11 SRC J 313



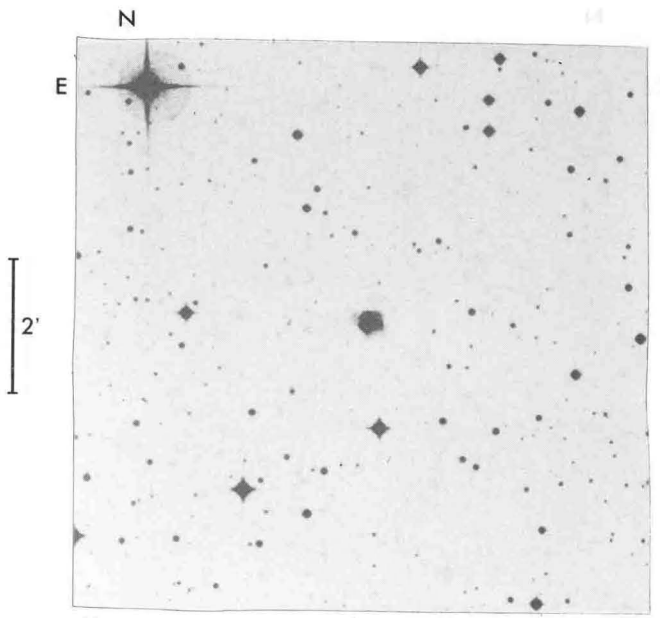
260.7+00.9 Vo 3 SRC J 313



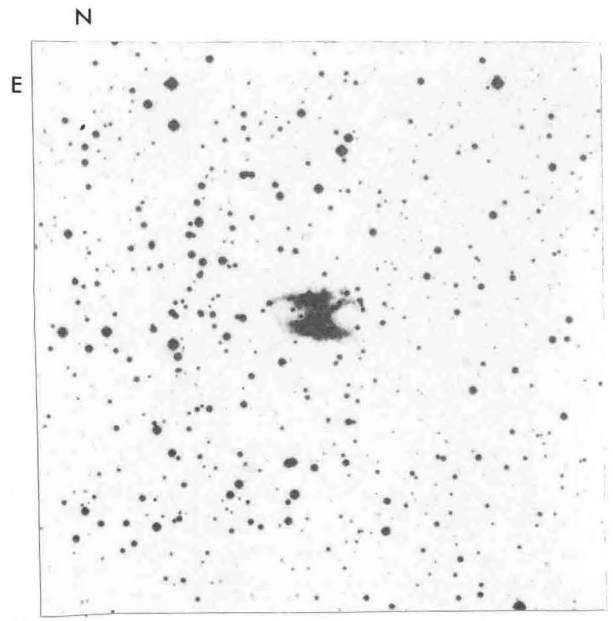
260.7-03.3 Wray 16- 20 SRC J 229



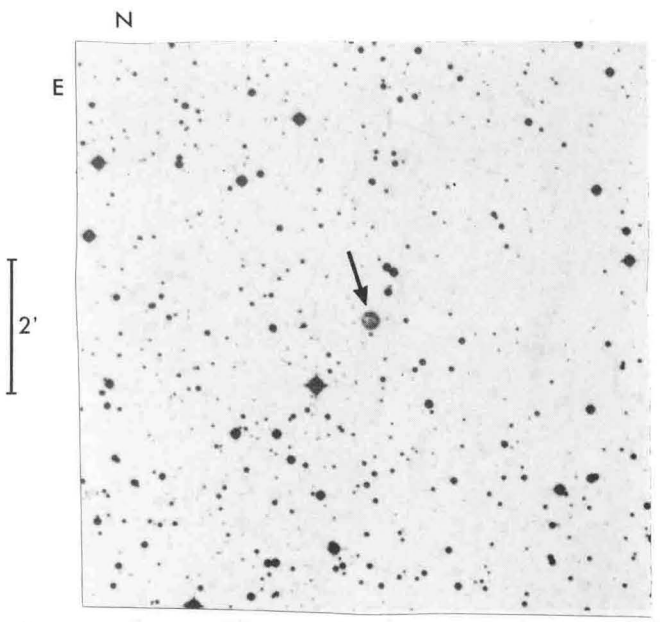
261.0+32.0 NGC 3242 BALICK 87



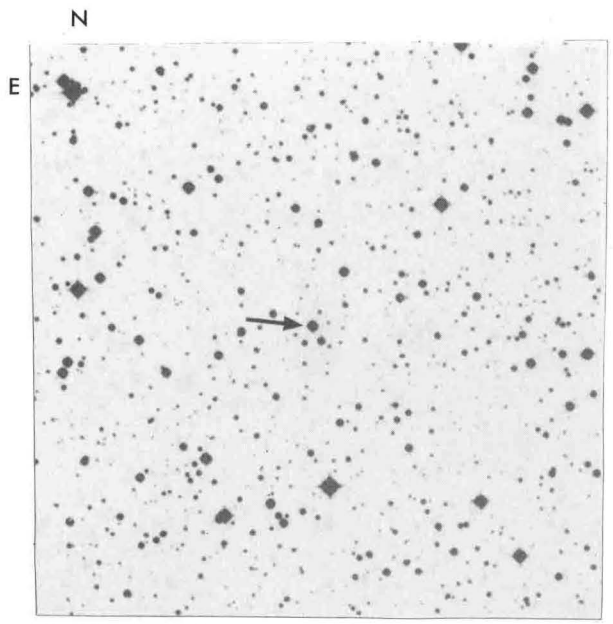
261.6+03.0 He 2- 15 SRC J 313



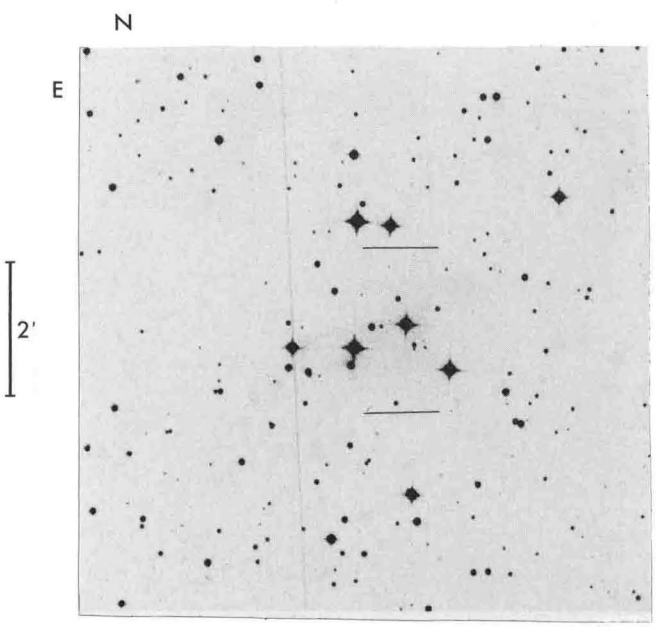
261.9+08.5 NGC 2818 ESO R 372



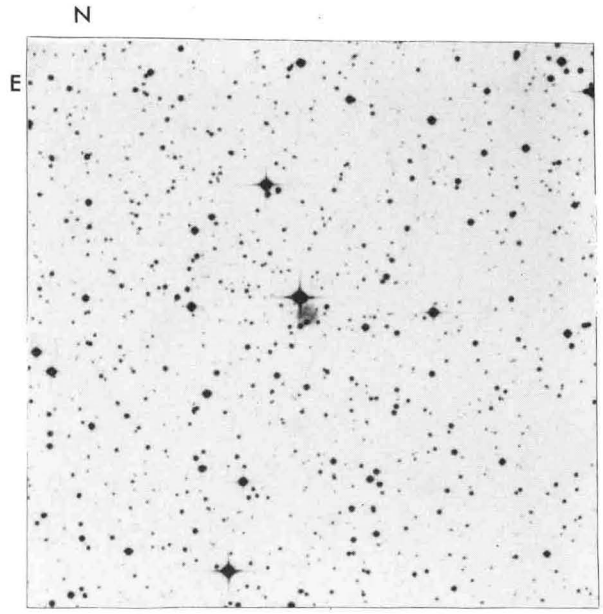
262.6-04.6 Wray 17- 18 ESO R 259



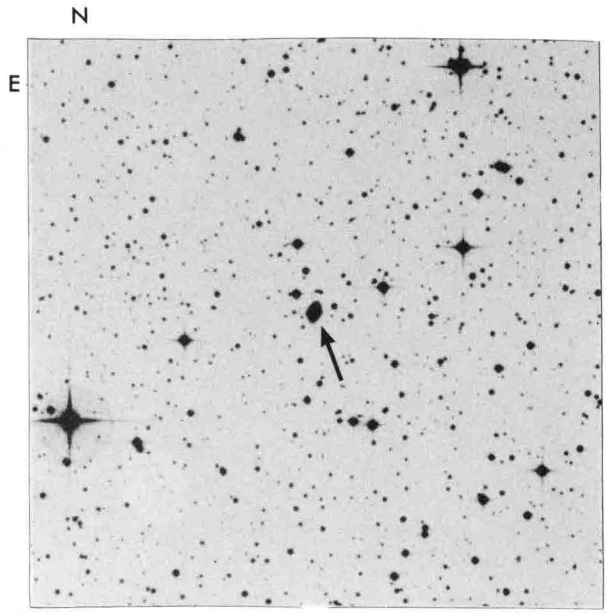
263.0-05.5 PB 2 SRC J 259



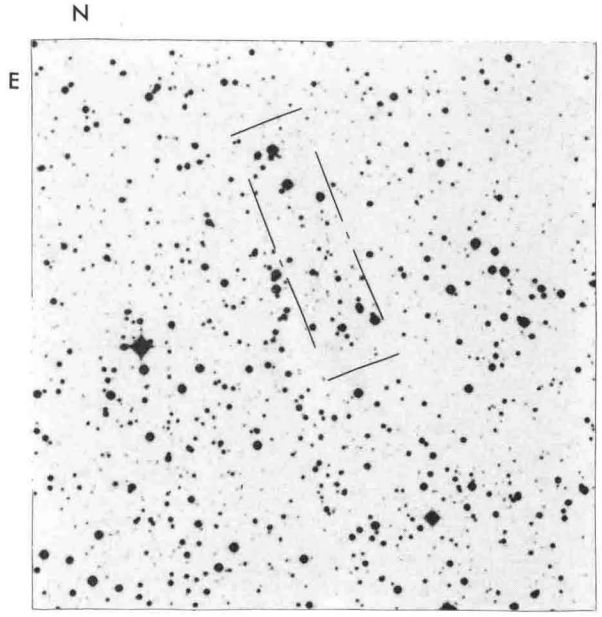
263.2+00.4 K 2-15 SRC J 260



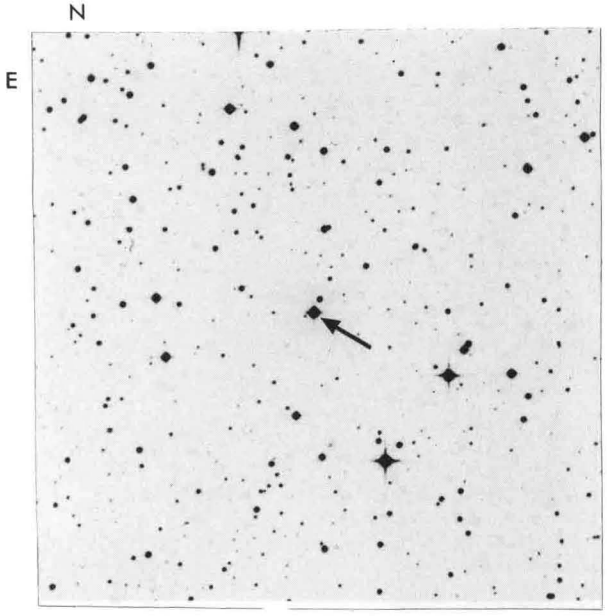
263.3-08.8 ESO 209-15 SRC J 209



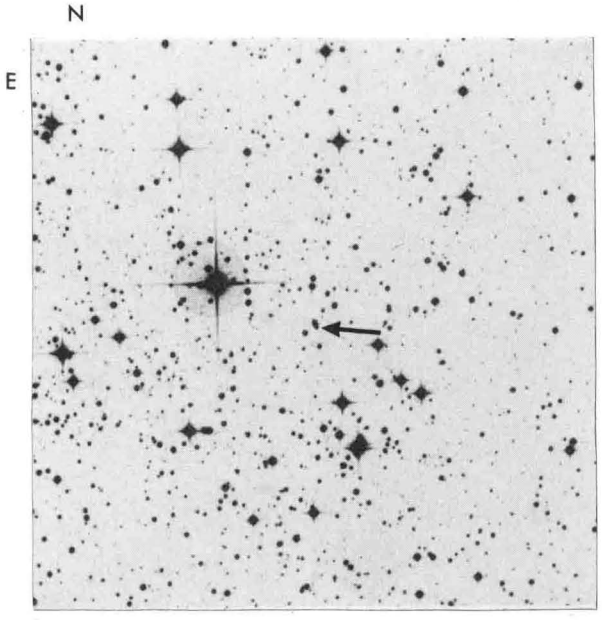
264.1-08.1 He 2- 7 SRC J 209



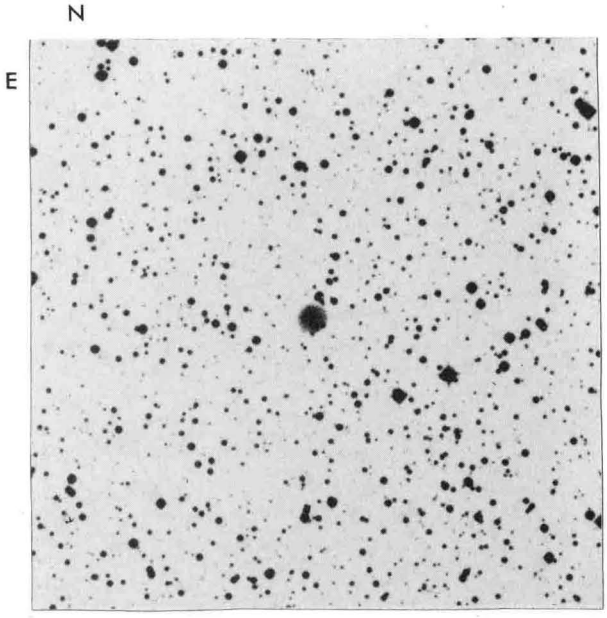
264.4-03.6 Wray 17-20 SRC J 259



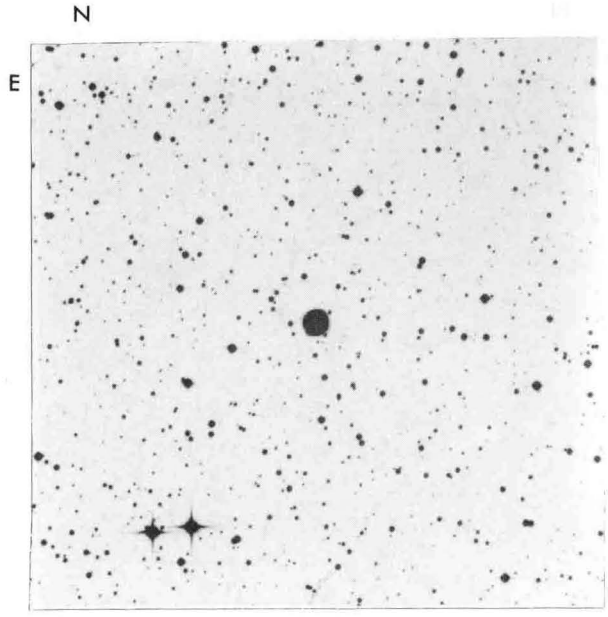
264.4-12.7 He 2- 5 SRC J 209



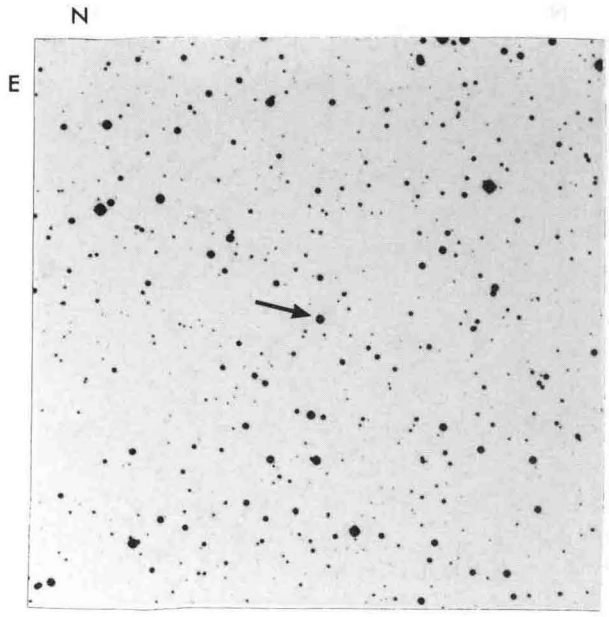
265.1-02.2 Ve 26 SRC J 260



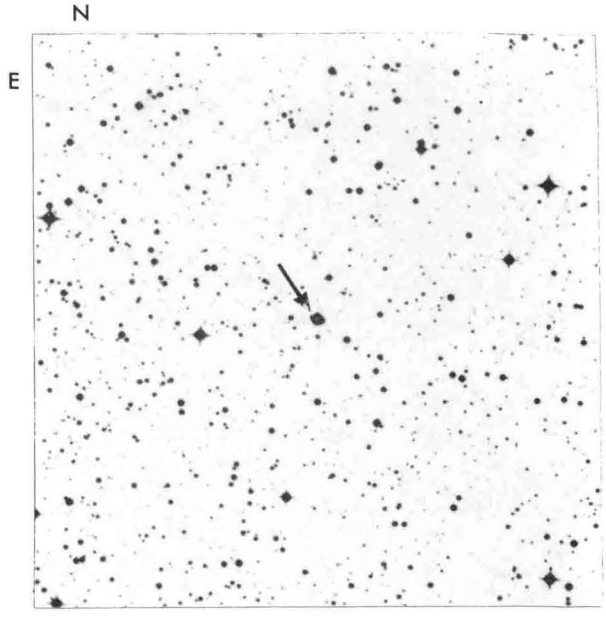
265.1-04.2 ESO 259-10 SRC J 259



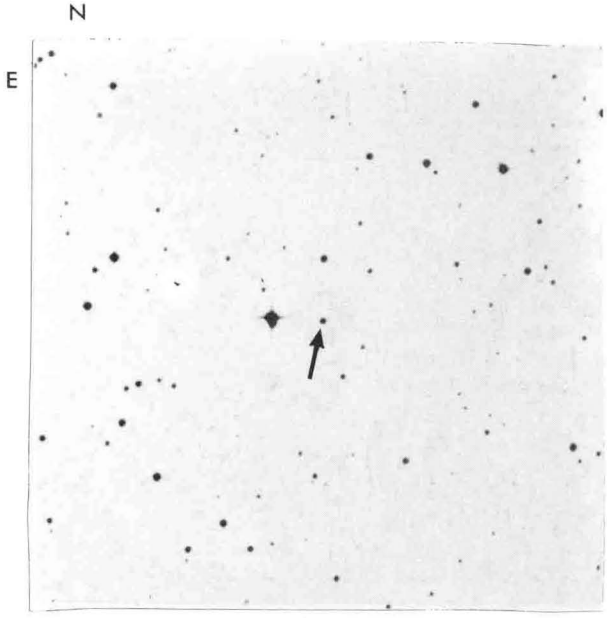
265.7+04.1 NGC 2792 SRC J 314



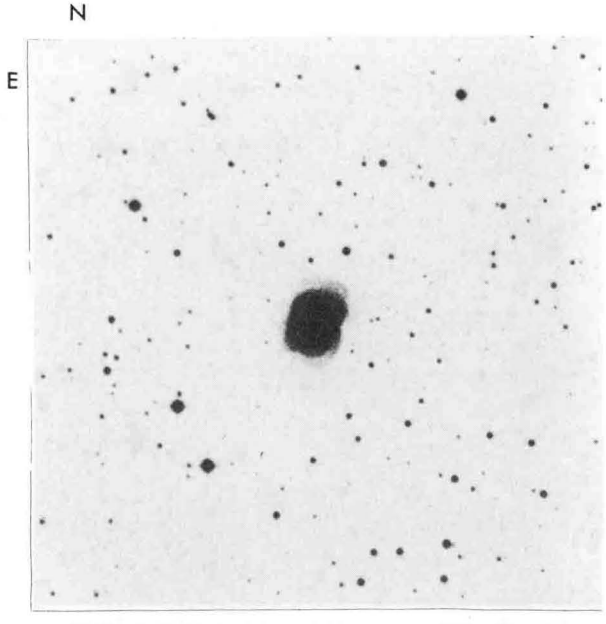
268.4+02.4 PB 5 ESO R 261



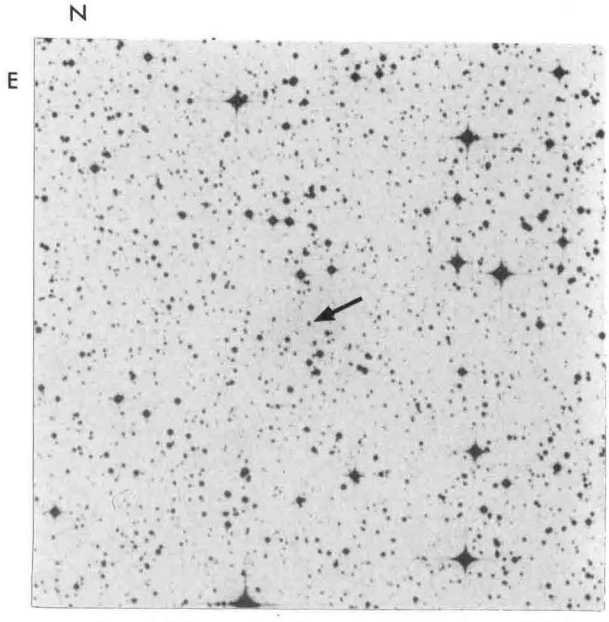
269.7-03.6 PB 3 SRC J 211



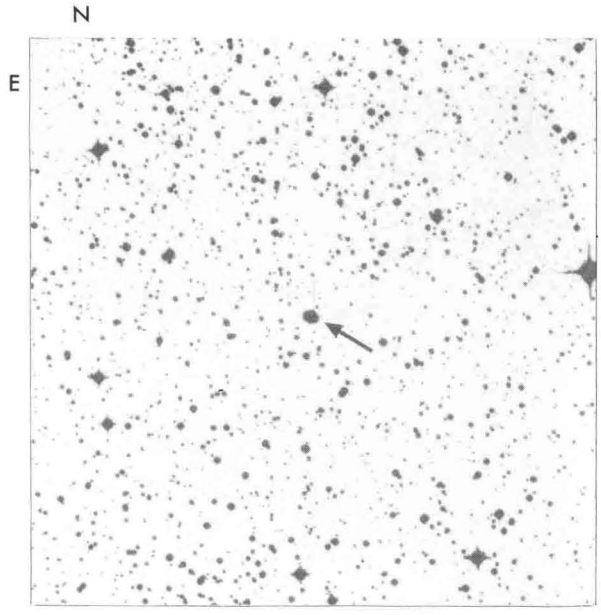
270.1+24.8 K 1-28 SRC J 436



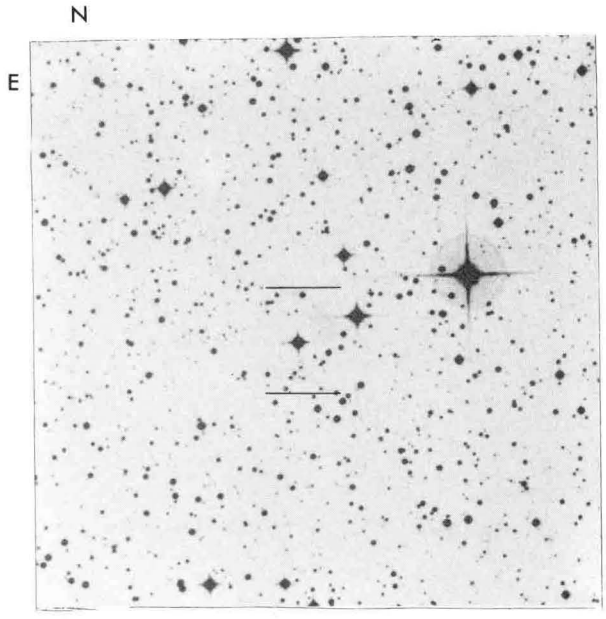
272.1+12.3 NGC 3132 ESO B 316



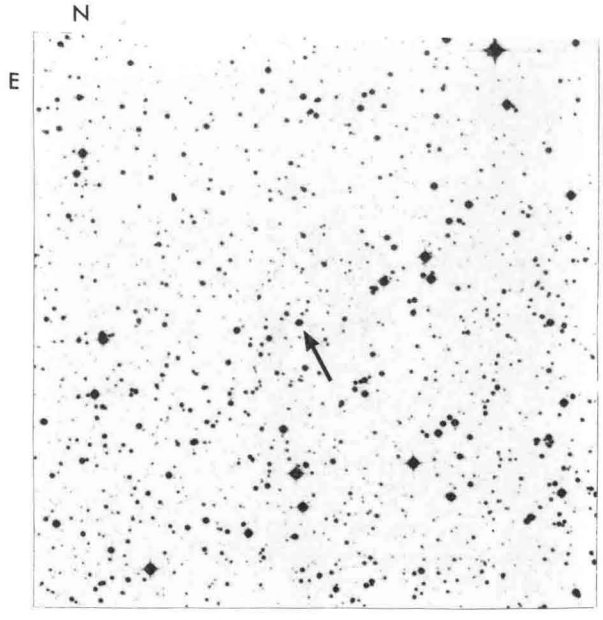
272.4-05.9 MeWe 1- 1 SRC J 165



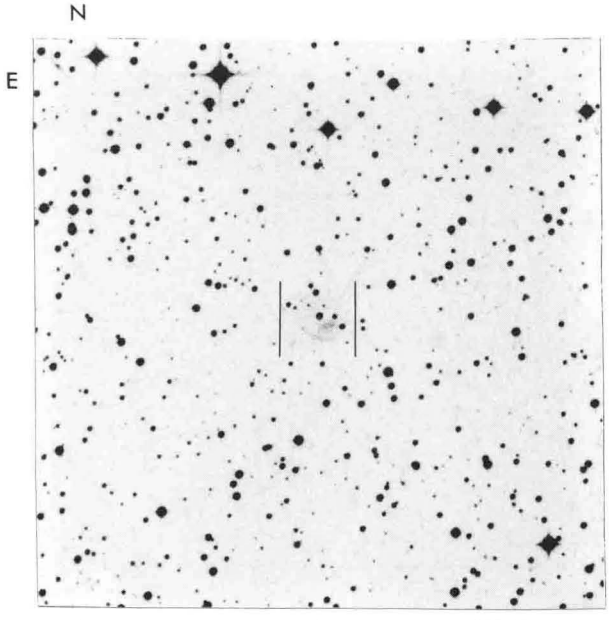
273.2-03.7 He 2- 18 SRC J 166



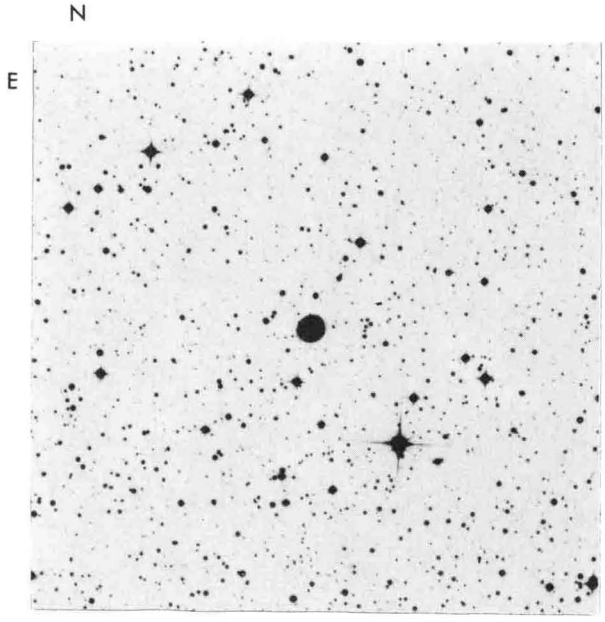
273.6+06.1 HBDS 1 SRC J 262



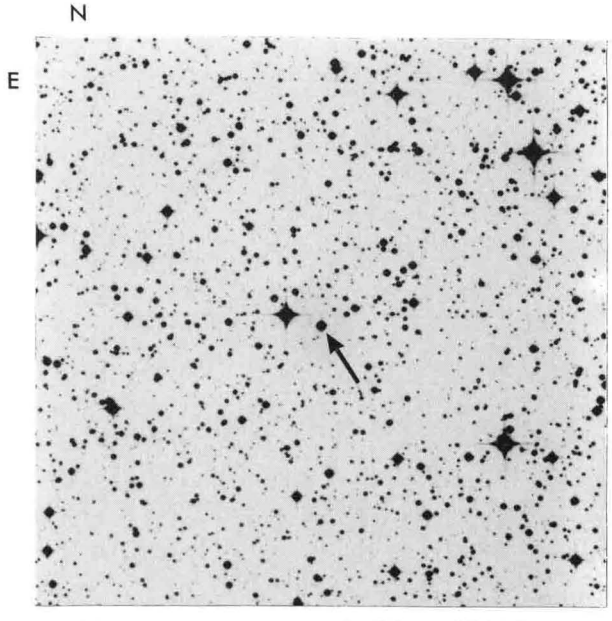
274.1+02.5 He 2- 34 SRC J 212



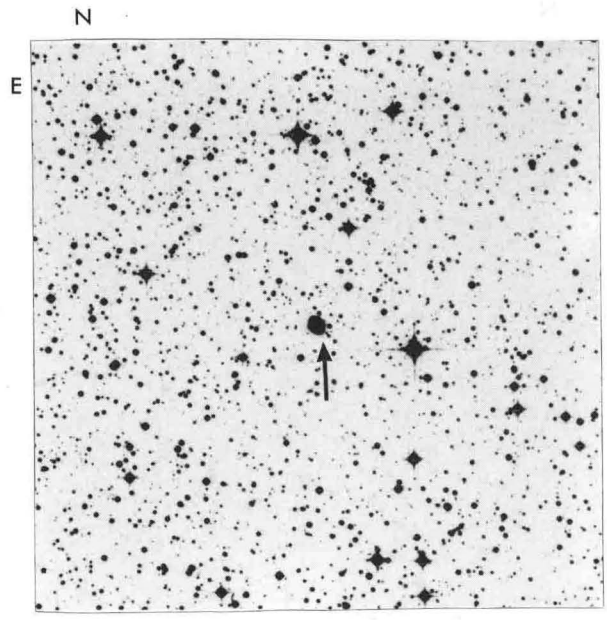
274.3+09.1 Lo 4 SRC J 263



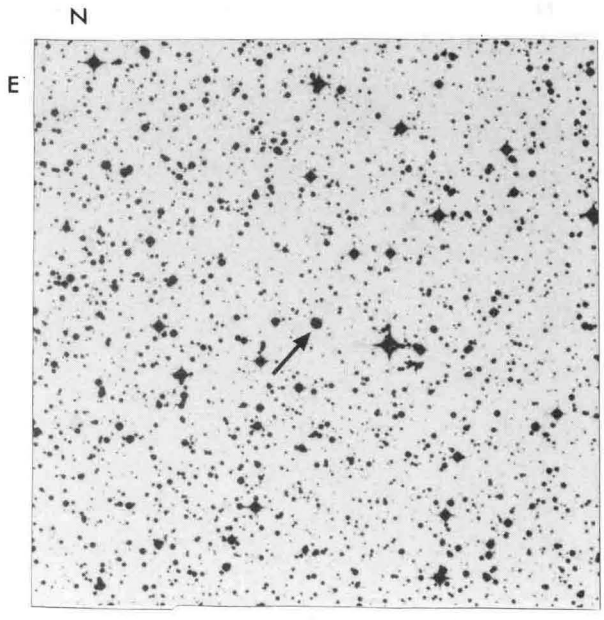
274.6+03.5 He 2- 37 SRC J 213



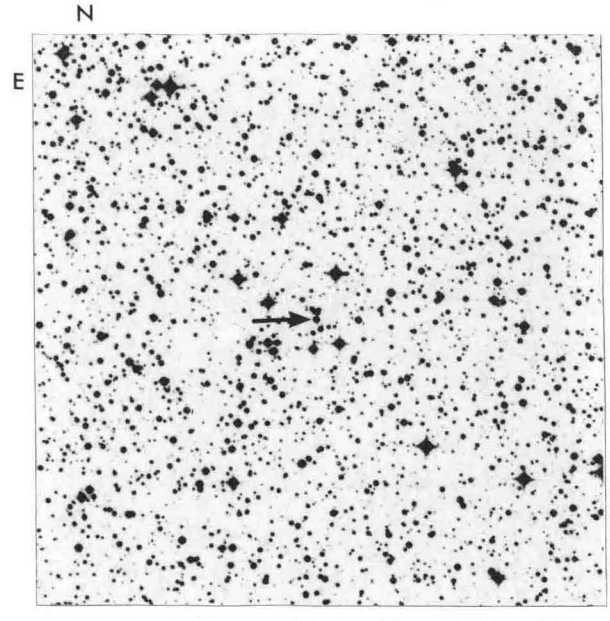
274.6+02.1 He 2- 35 SRC J 212



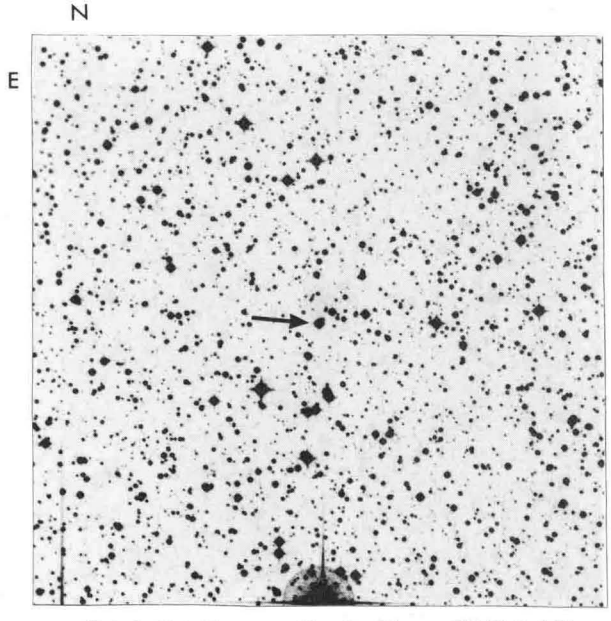
275.0-04.1 PB 4 SRC J 166



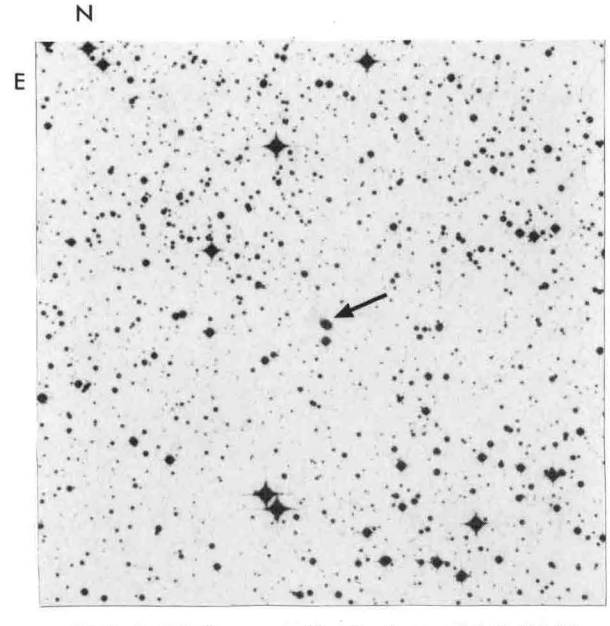
275.2-02.9 He 2- 28 SRC J 166



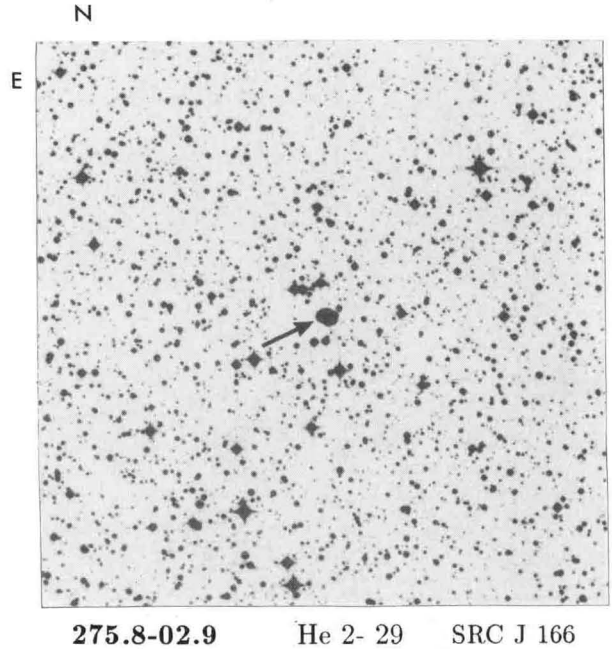
275.2-03.7 He 2- 25 SRC J 166



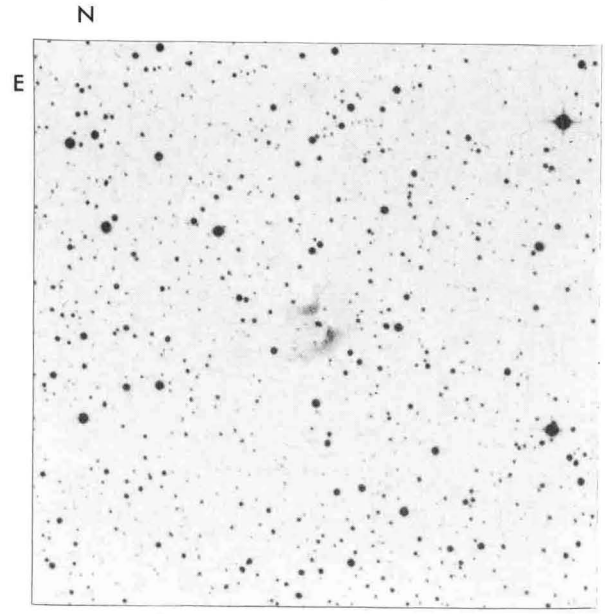
275.3-04.7 He 2- 21 SRC J 166



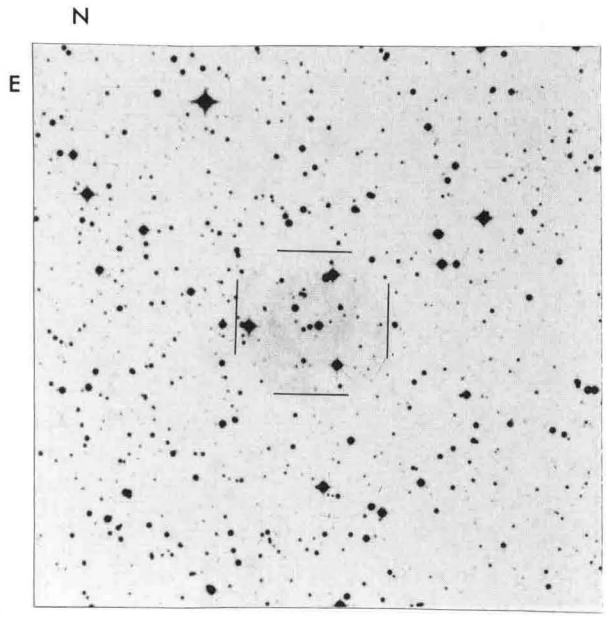
275.5-01.3 Pe 2- 4 SRC J 166



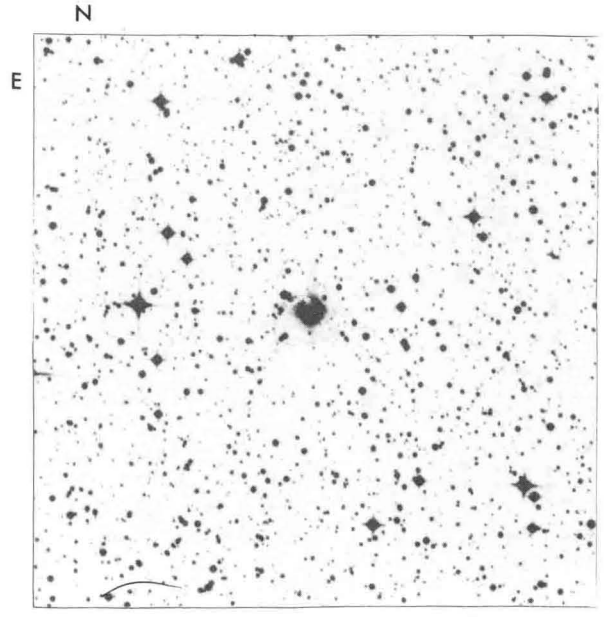
275.8-02.9 He 2- 29 SRC J 166



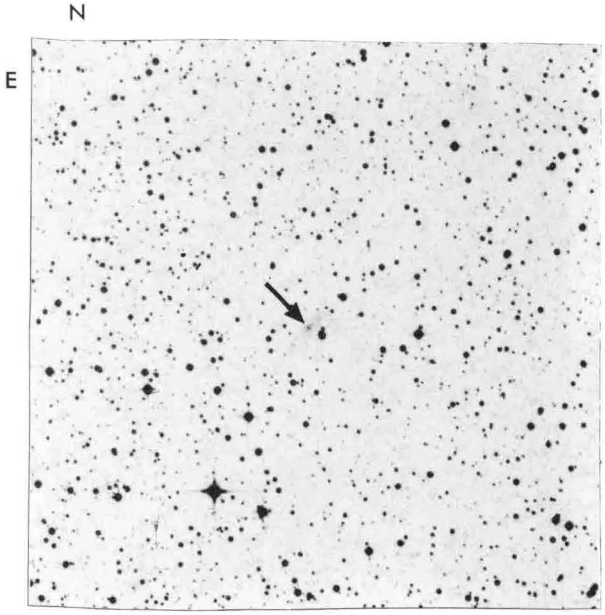
277.1-03.8 NGC 2899 ESO R 166



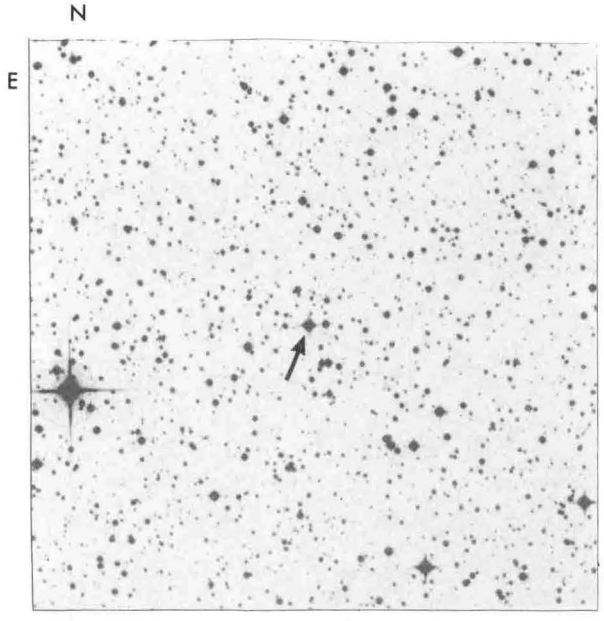
277.7-03.5 Wray 17- 31 SRC J 166



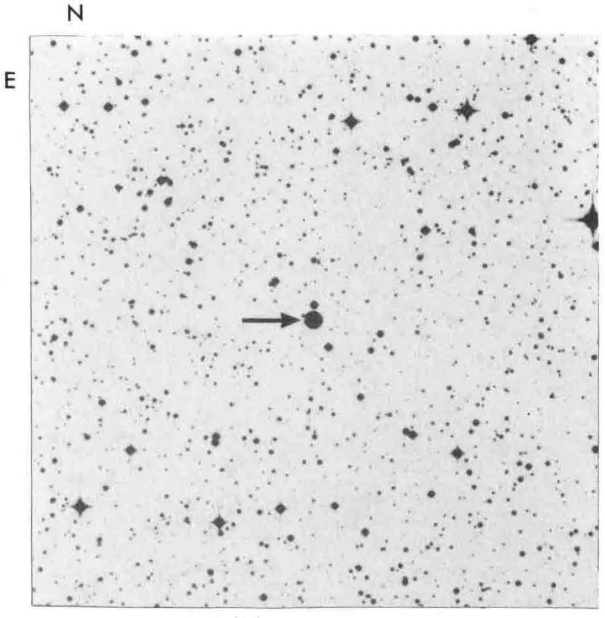
278.1-05.9 NGC 2867 SRC J 126



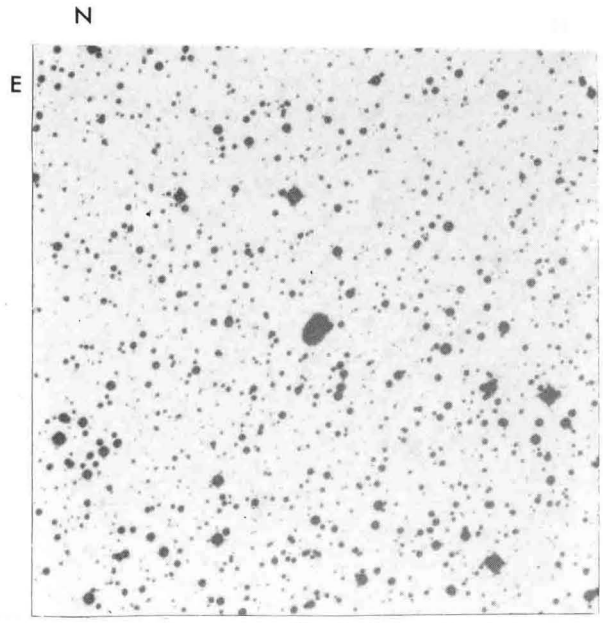
278.5-04.5 He 2- 32 SRC J 126



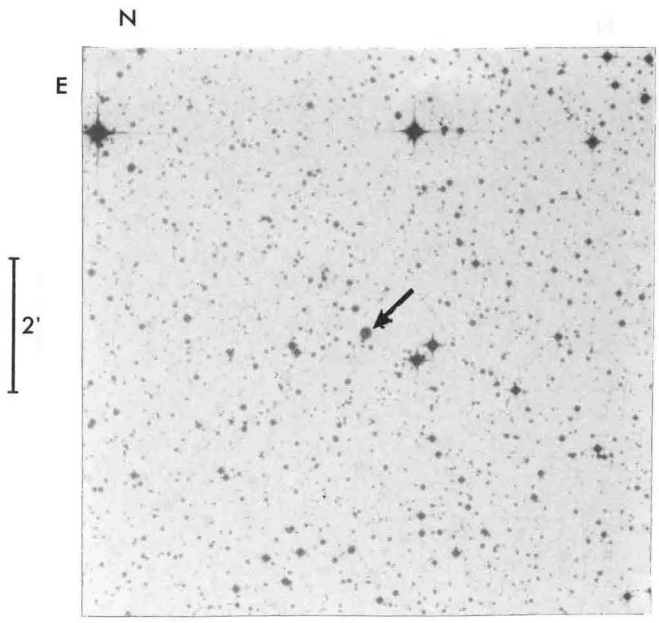
278.6-06.7 He 2- 26 SRC J 126



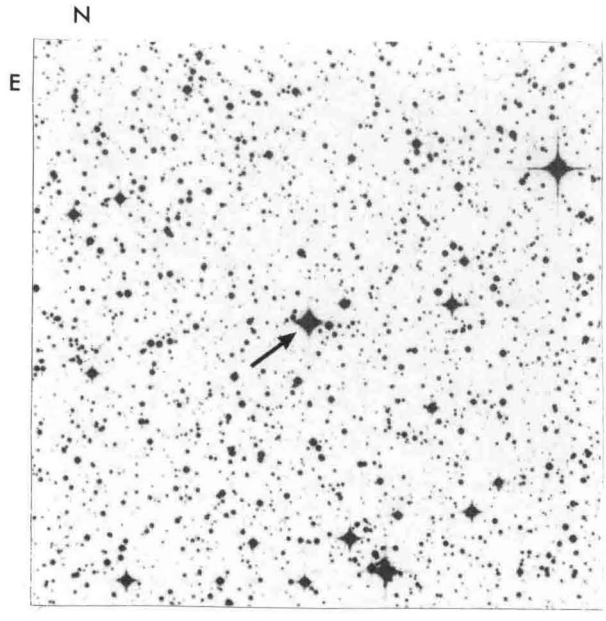
278.8+04.9 PB 6 SRC J 213



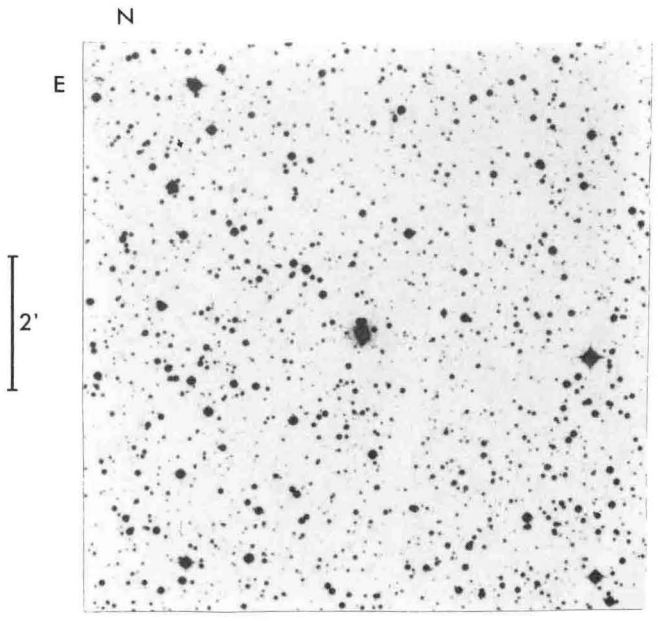
279.6-03.1 He 2- 36 SRC J 167



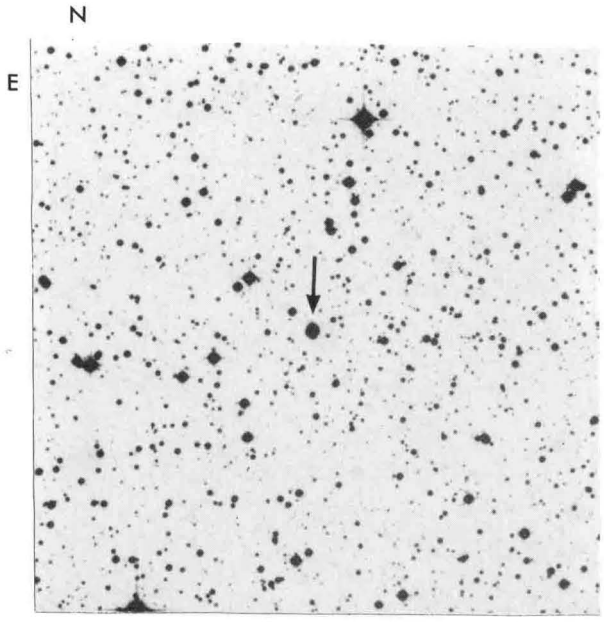
280.0+02.9 Ste 2-1 SRC J 213



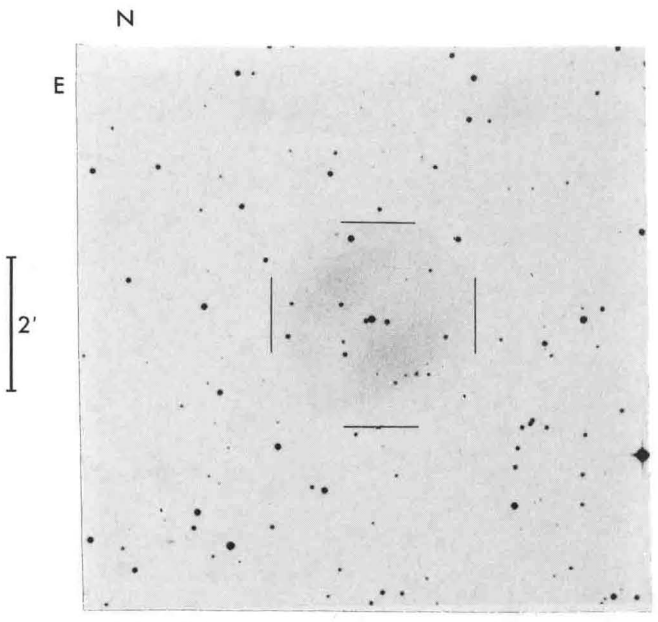
281.0-05.6 IC 2501 SRC J 126



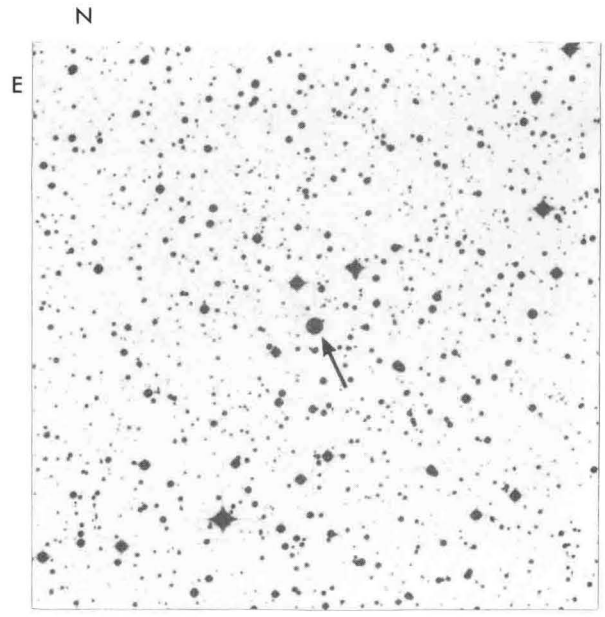
282.9+03.8 He 2- 48 SRC J 168



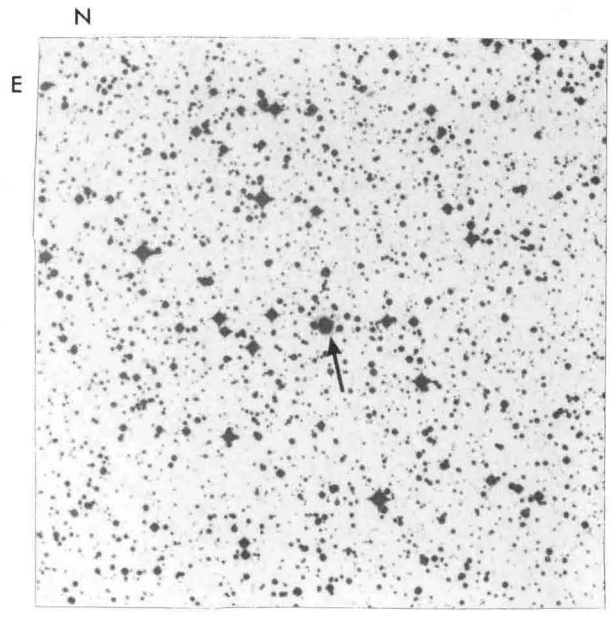
283.3+03.9 He 2- 50 SRC J 168



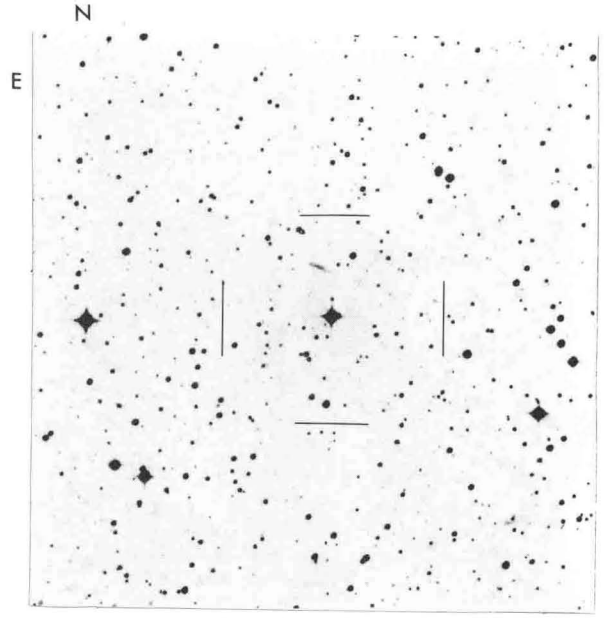
283.6+25.3 K 1-22 SRC J 378



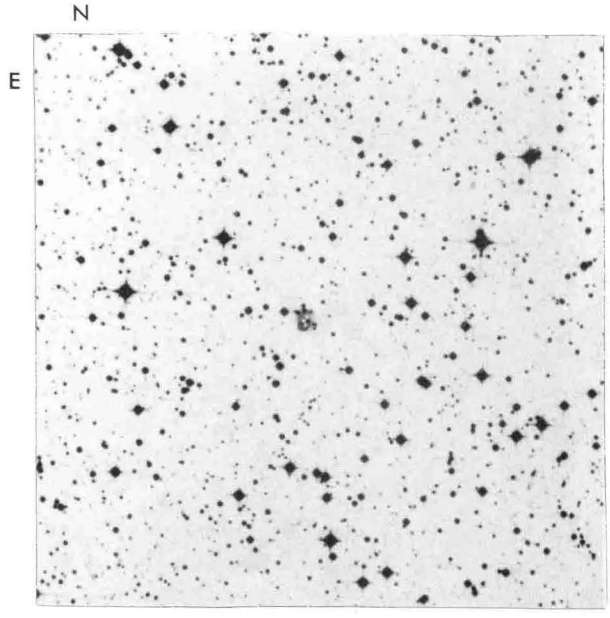
283.8+02.2 My 60 SRC J 168



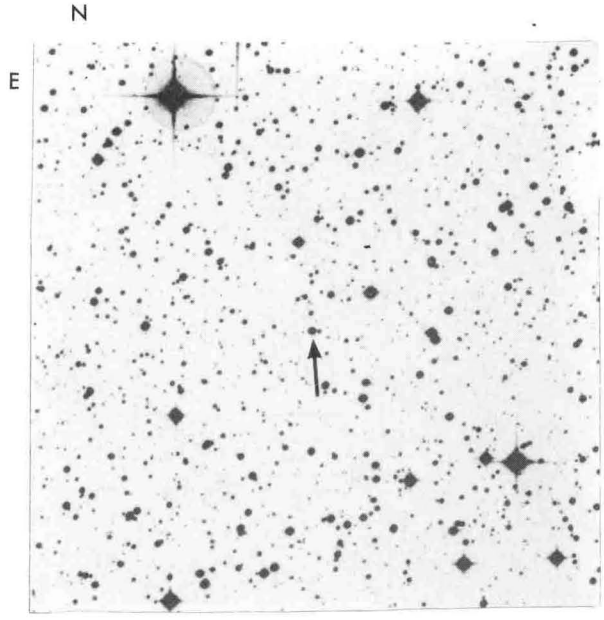
283.8-04.2 He 2- 39 SRC J 127



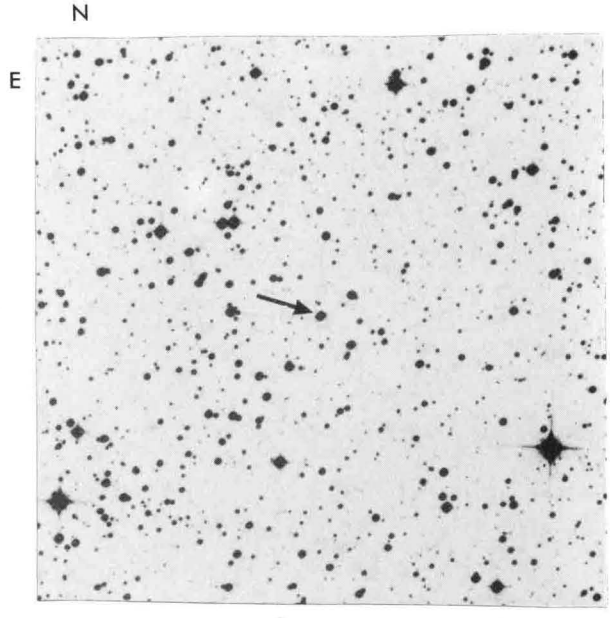
283.9+09.7 ESO 215-04 SRC J 215



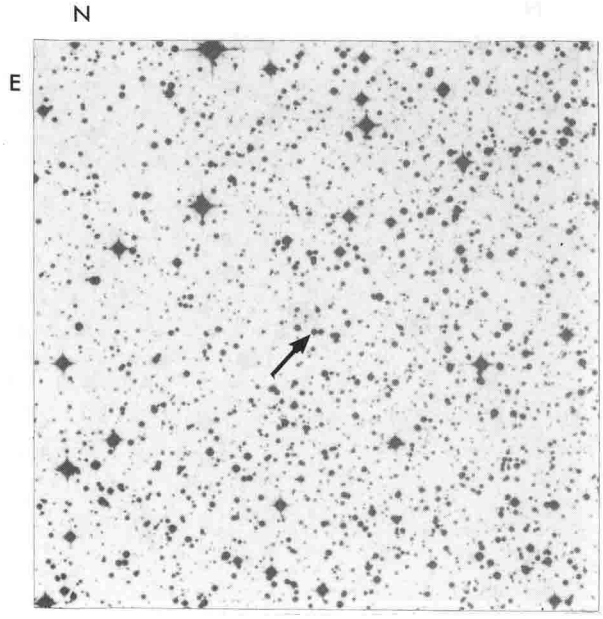
283.9-01.8 Hf 4 SRC J 127



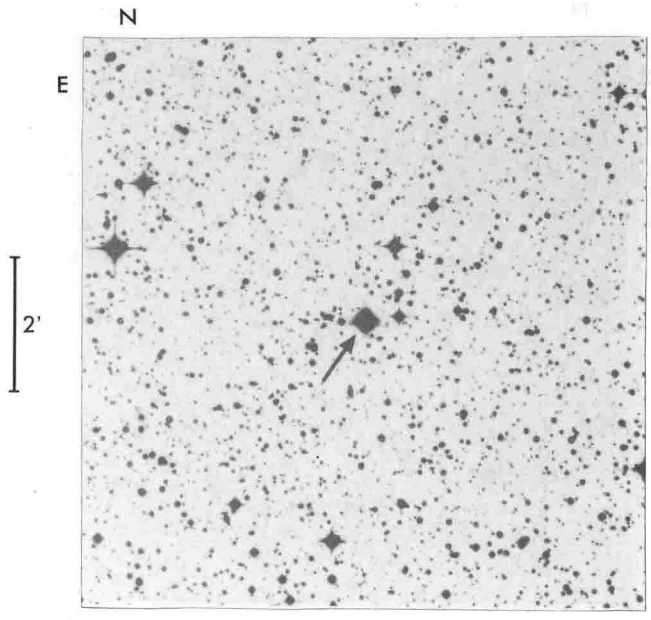
285.4+02.2 Pe 2- 7 SRC J 168



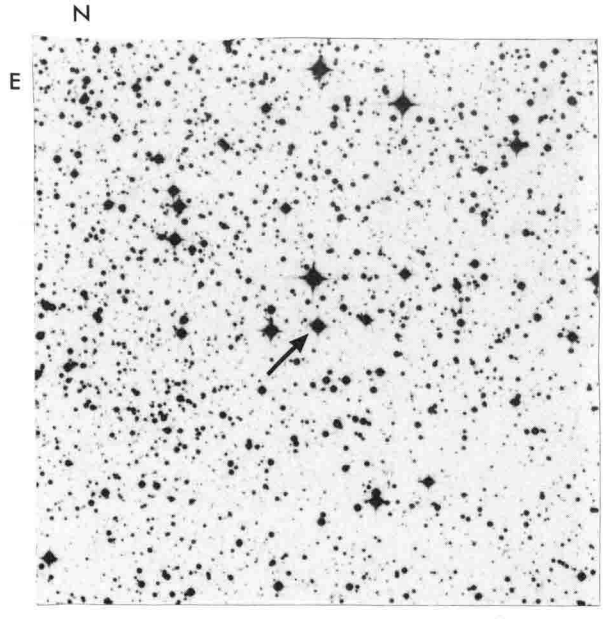
285.4+01.5 Pe 1- 1 SRC J 168



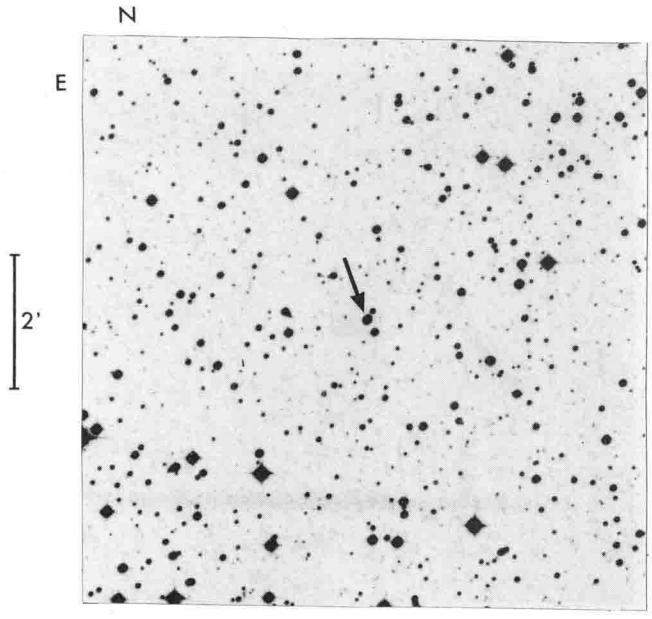
285.4-01.1 Pe 2- 5 SRC J 127



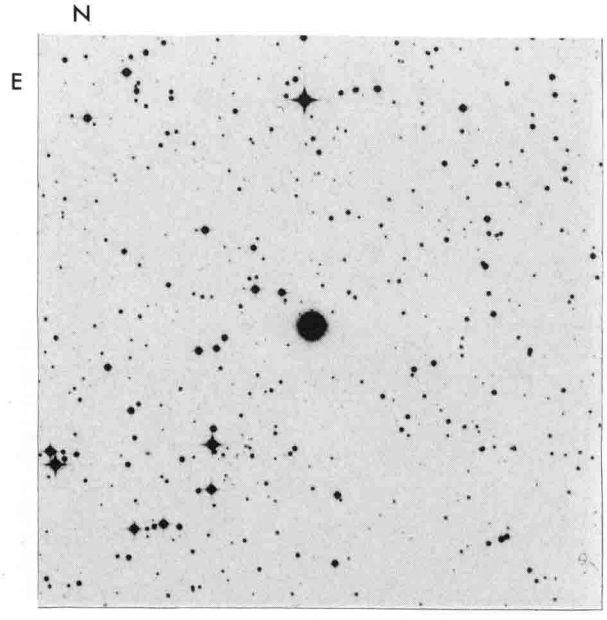
285.4-05.3 IC 2553 SRC J 127



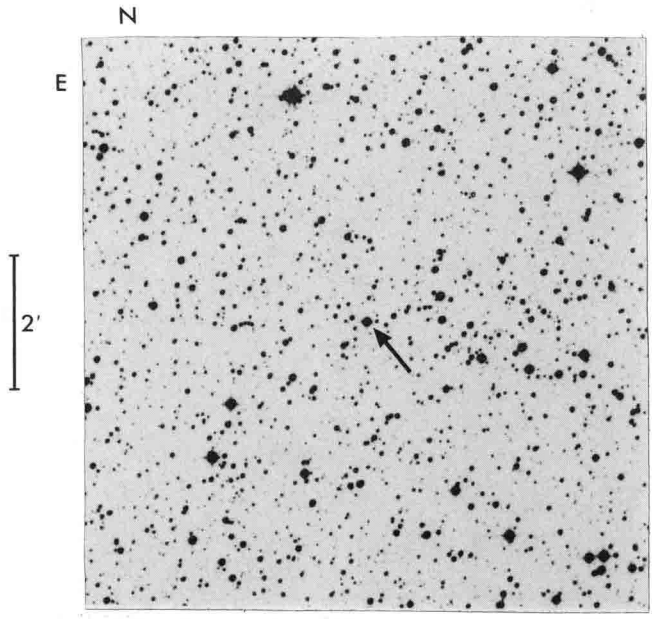
285.6-02.7 He 2- 47 SRC J 127



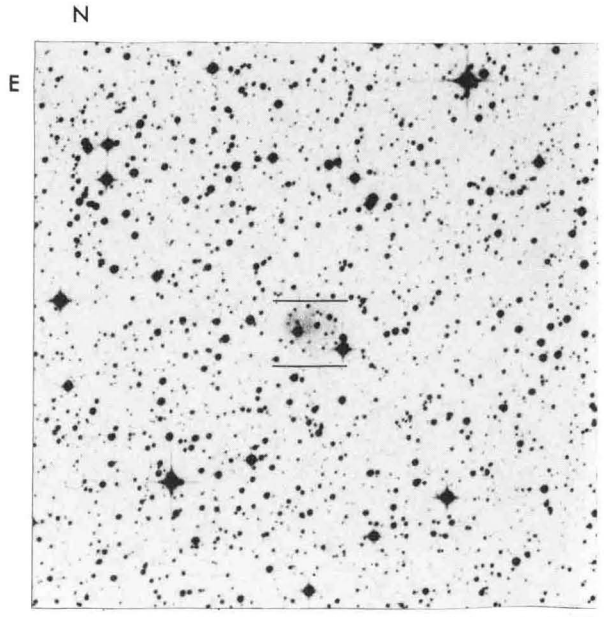
285.7+01.2 Pe 1- 2 SRC J 168



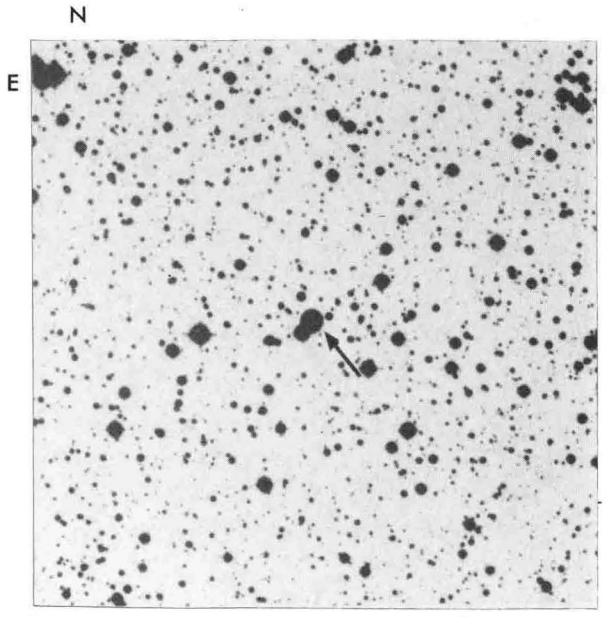
285.7-14.9 IC 2448 SRC J 061



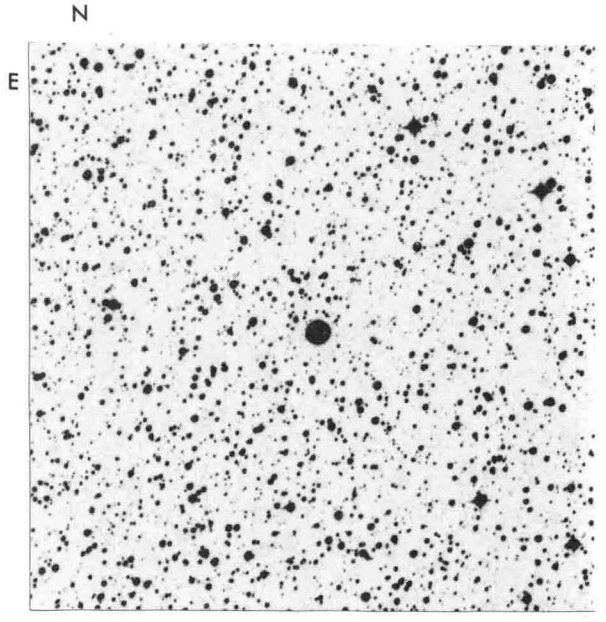
286.0-06.5 He 2- 41 SRC J 092



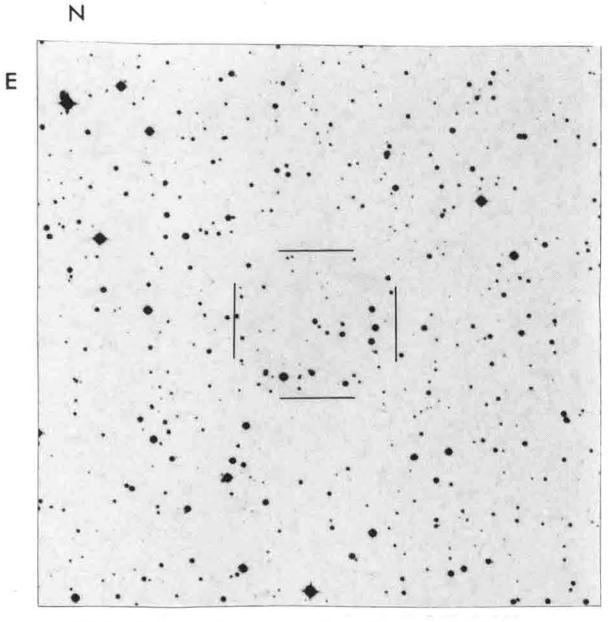
286.2-06.9 Wray 17- 40 SRC J 092



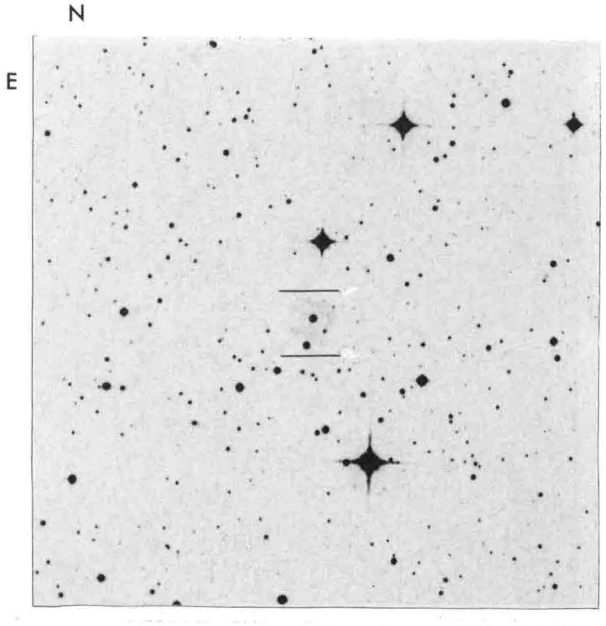
286.3+02.8 He 2- 55 SRC J 169



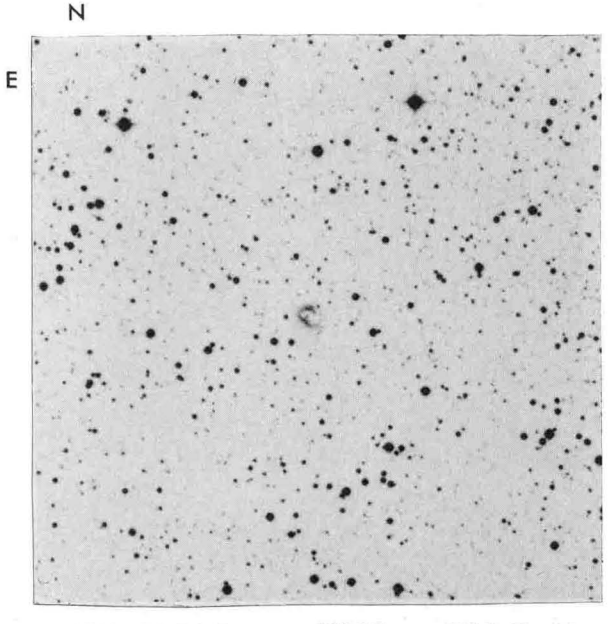
286.3-04.8 NGC 3211 SRC J 092



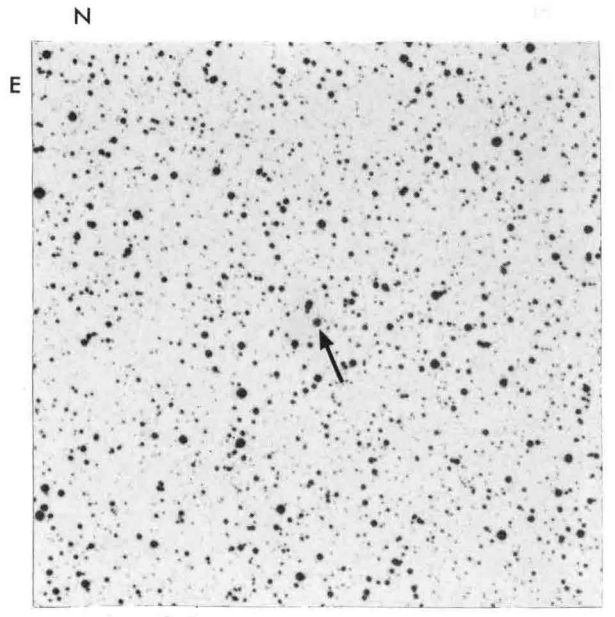
286.5+11.6 Lo 5 ESO B 215



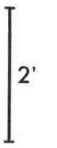
286.8-29.5 K 1-27 SRC J 033

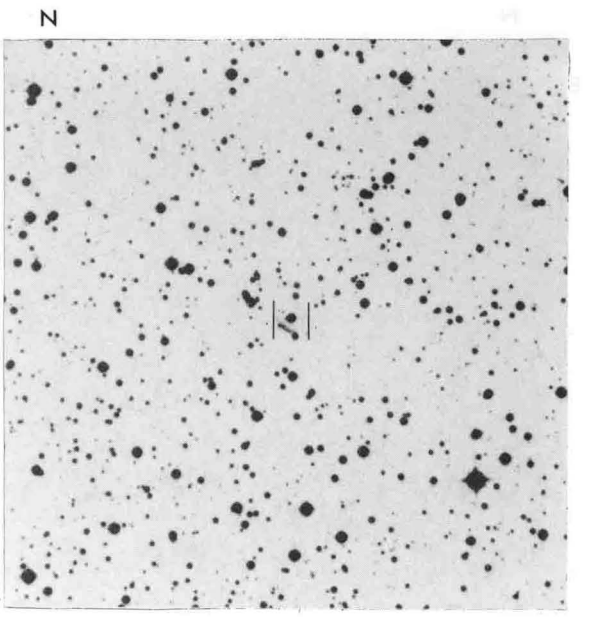


288.4+00.3 Hf 38 ESO B 128

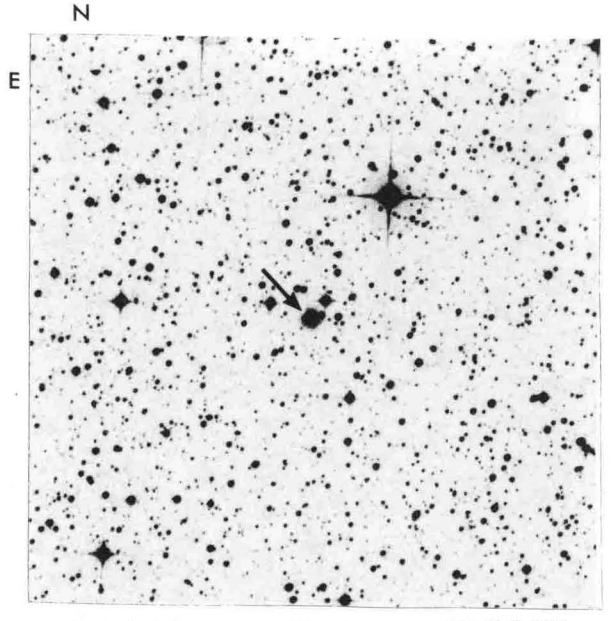


288.4-02.4 Pe 1- 3 ESO B 128

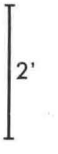


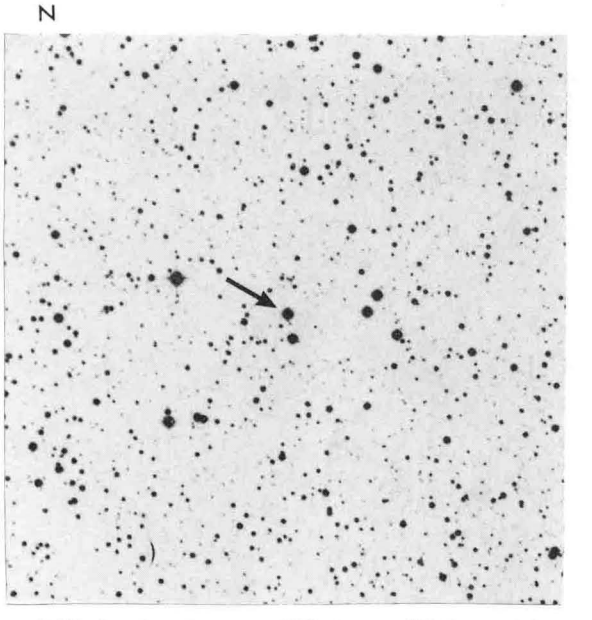


288.7+08.1 ESO 216-02 SRC J 216

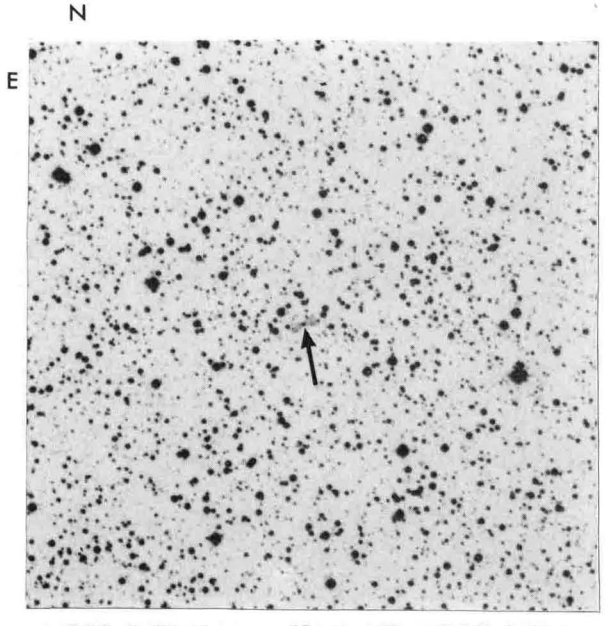


288.8-05.2 He 2- 51 SRC J 092

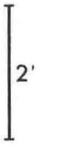


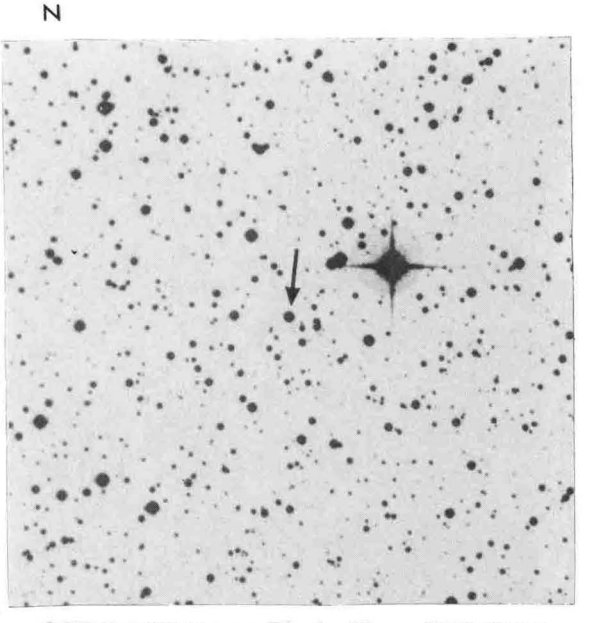


288.9 - 00.8 Hf 39 ESO B 128

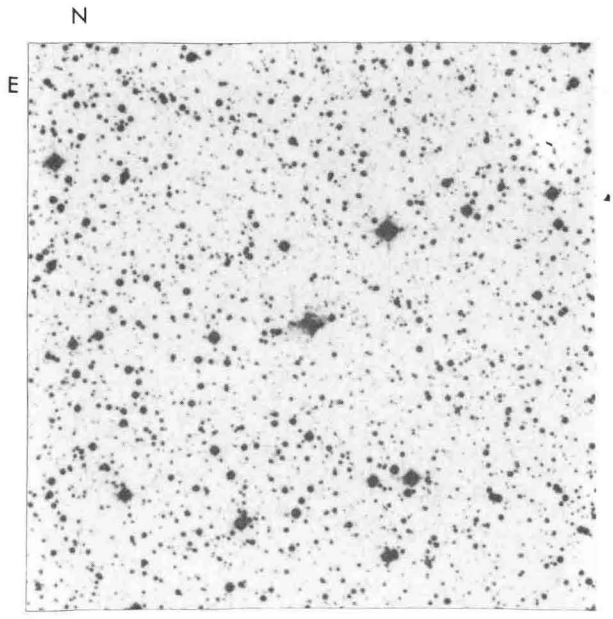


289.6-01.6 He 2- 57 ESO R 128

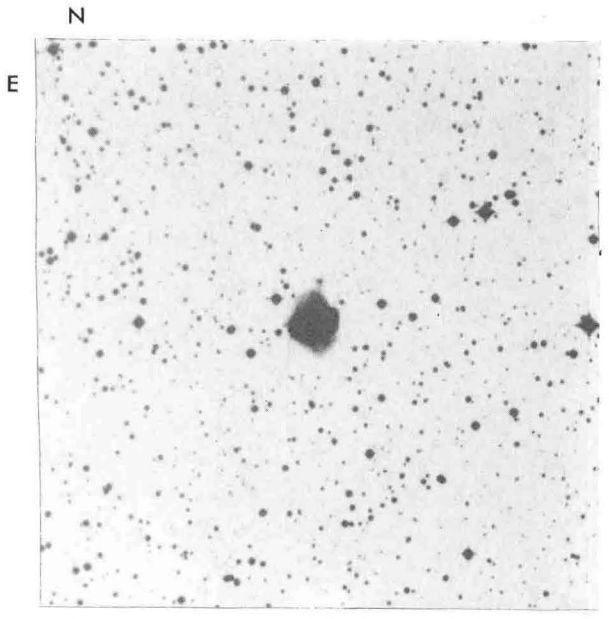




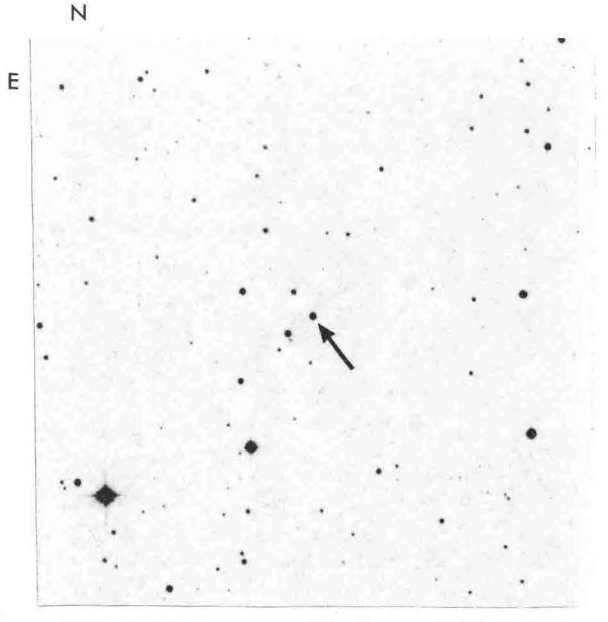
289.8+07.7 He 2- 63 SRC J 216



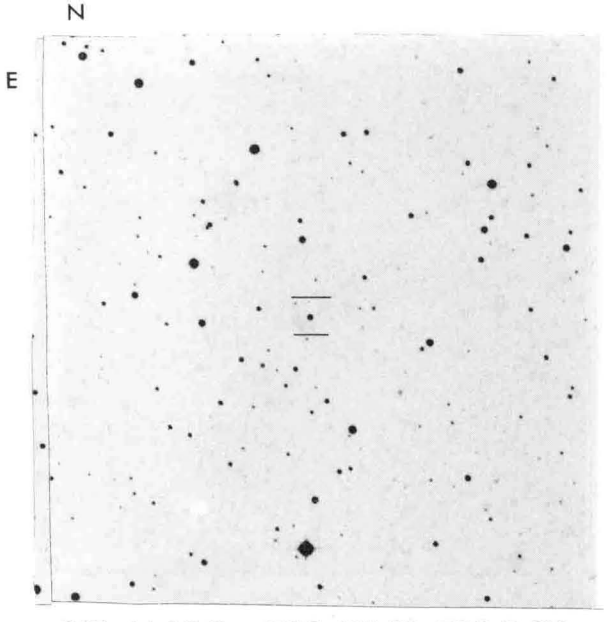
290.1 - 00.4 Hf 48 ESO R 128



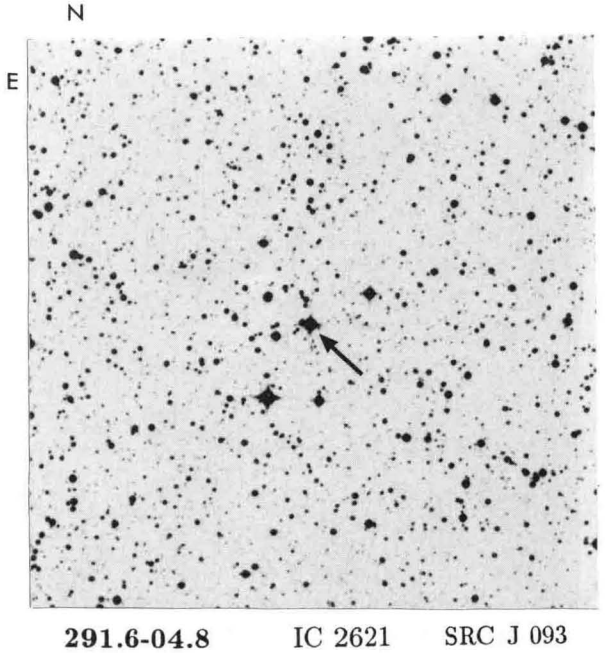
290.5+07.9 Fg 1 SRC J 170



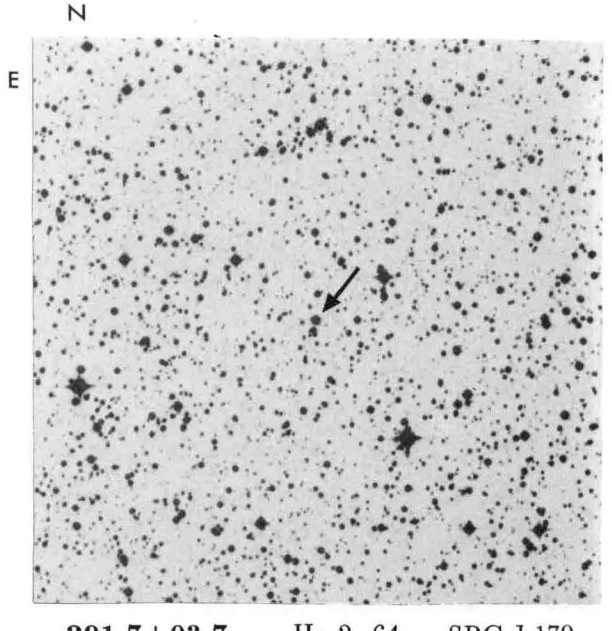
291.3-26.2 Vo 1 ESO R 017



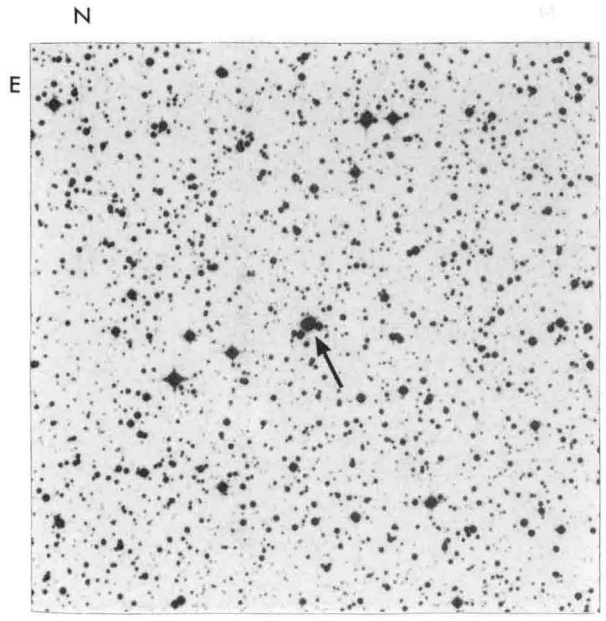
291.4+19.2 ESO 320-28 ESO B 320



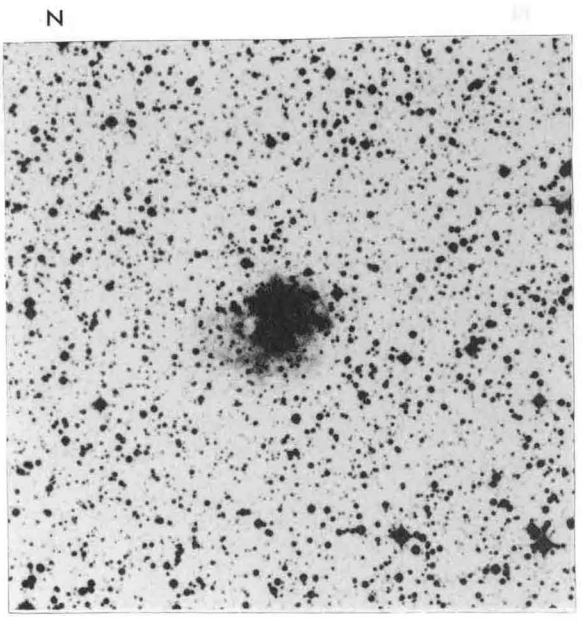
291.6-04.8 IC 2621 SRC J 093



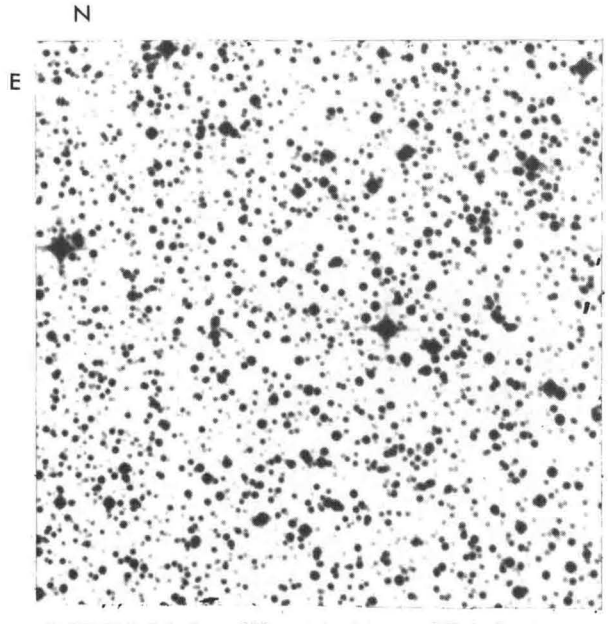
291.7+03.7 He 2- 64 SRC J 170



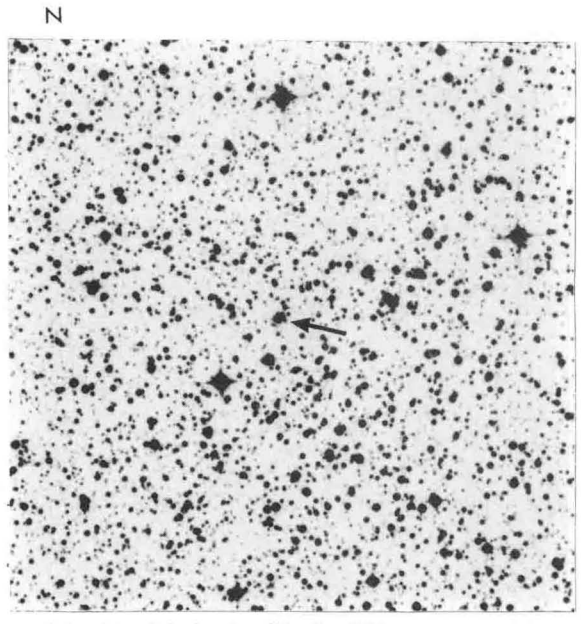
292.4+04.1 PB 8 SRC J 170



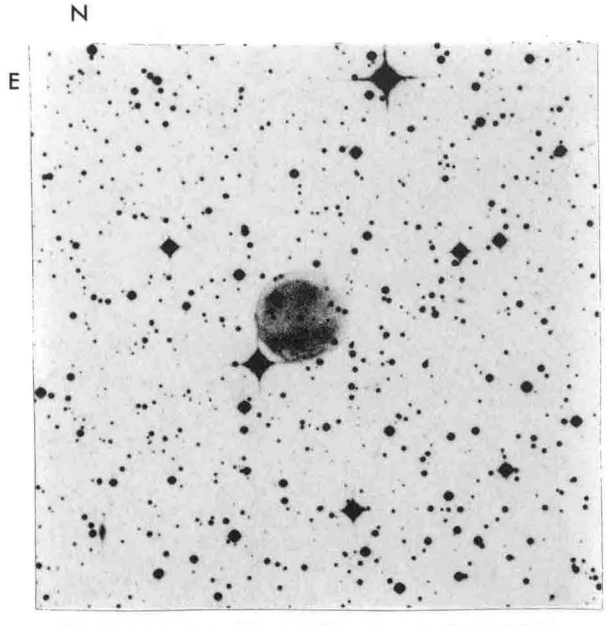
292.6+01.2 NGC 3699 SRC J 129



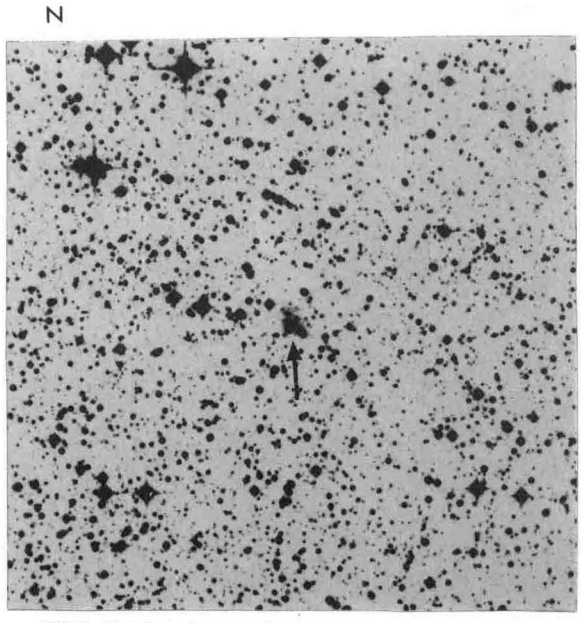
292.7+01.9 Wra 16- 93 SRC J 129
(no ident.)



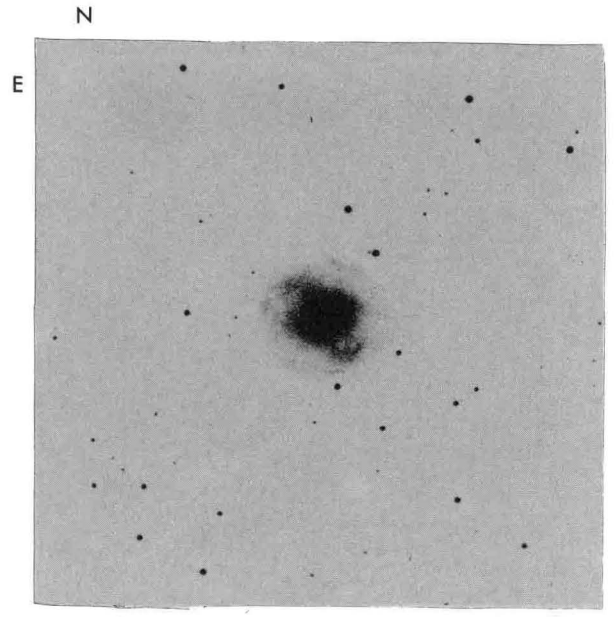
292.8+01.1 He 2- 67 SRC J 129



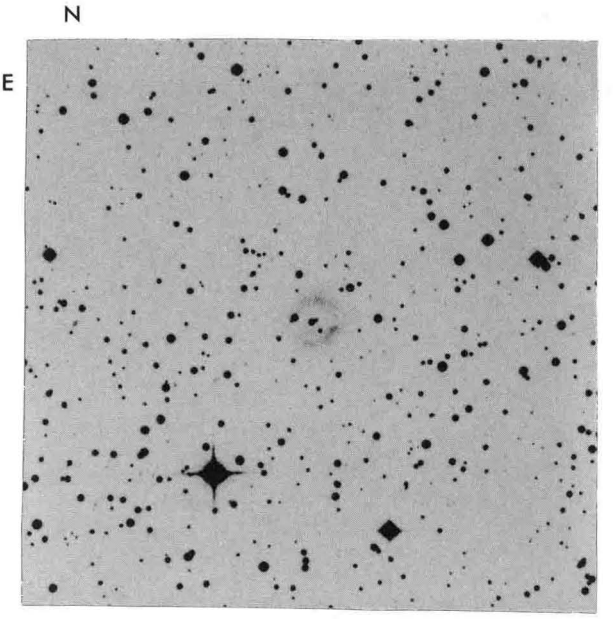
293.6+10.9 BlDz 1 SRC J 217



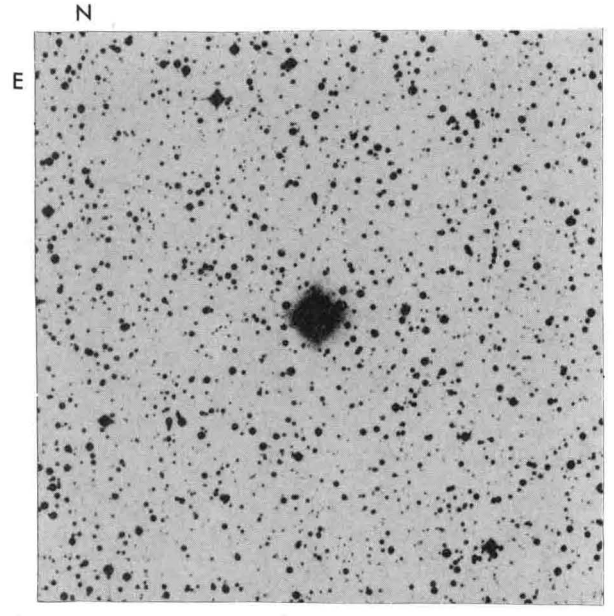
293.6+01.2 He 2- 70 SRC J 129



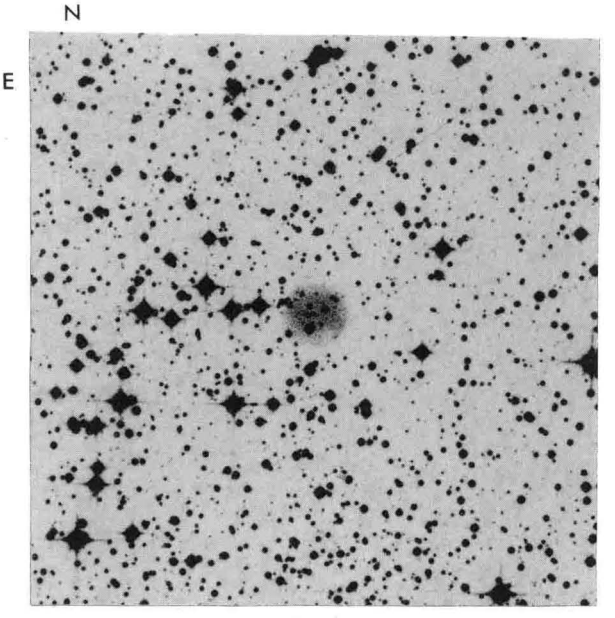
294.1+43.6 NGC 4361 ESO B 573



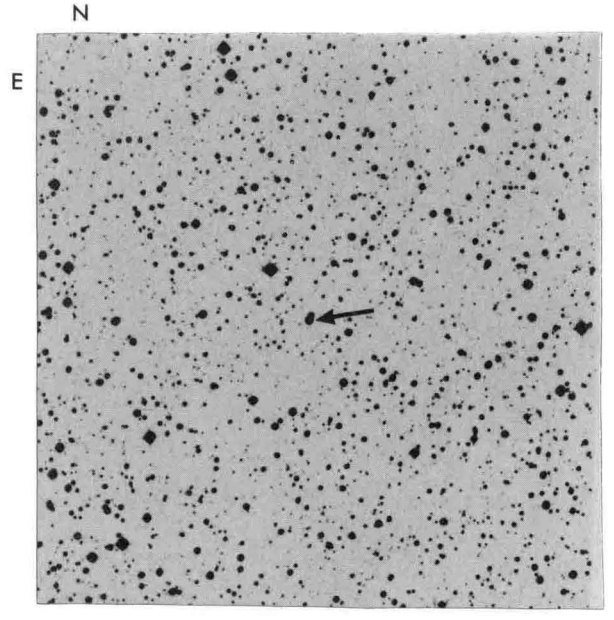
294.1+14.4 Lo 6 SRC J 217



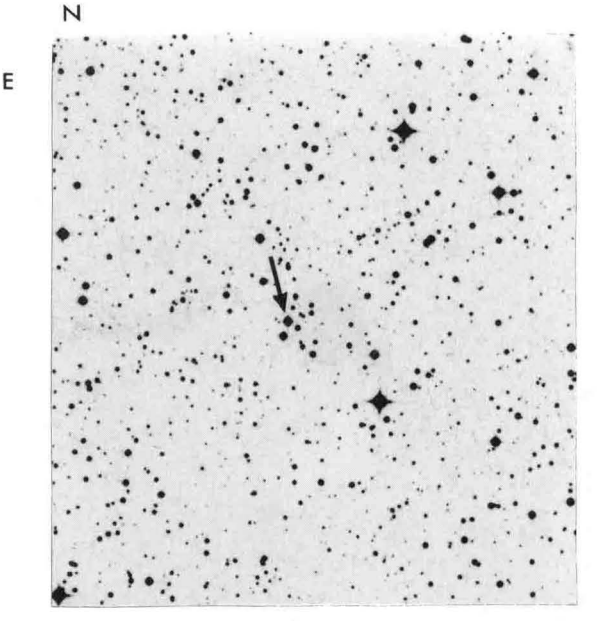
294.6+04.7 NGC 3918 SRC J 170



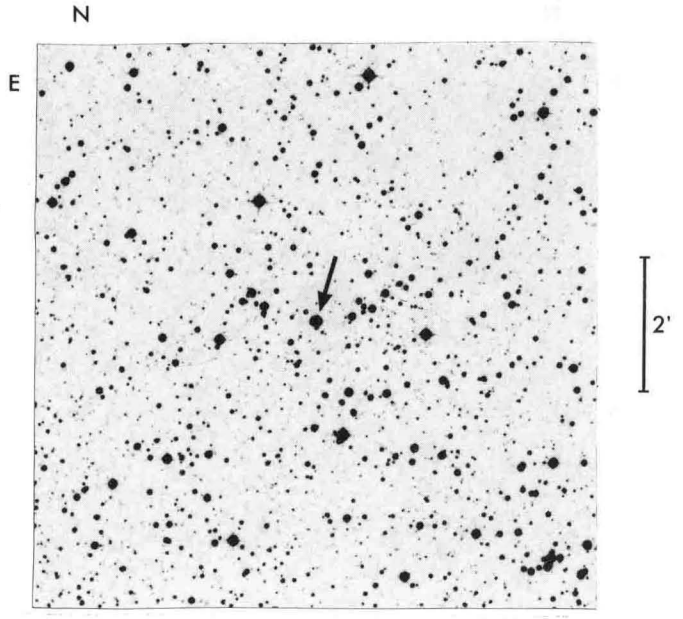
294.9 - 00.6 He 2- 72 SRC J 129



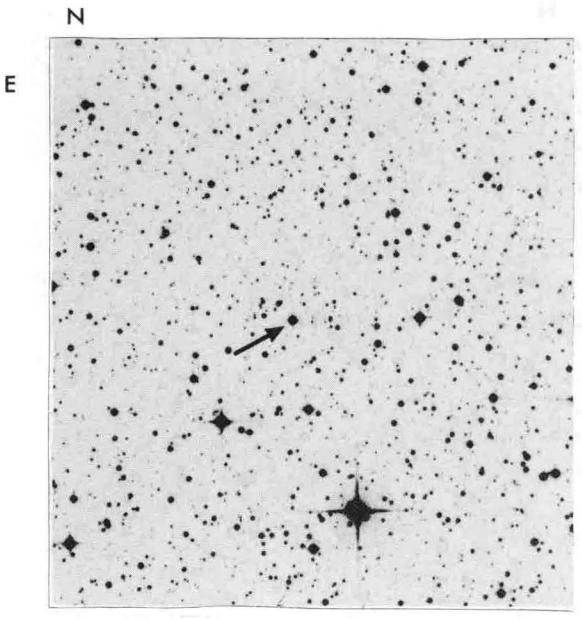
294.9-04.3 He 2- 68 SRC J 094



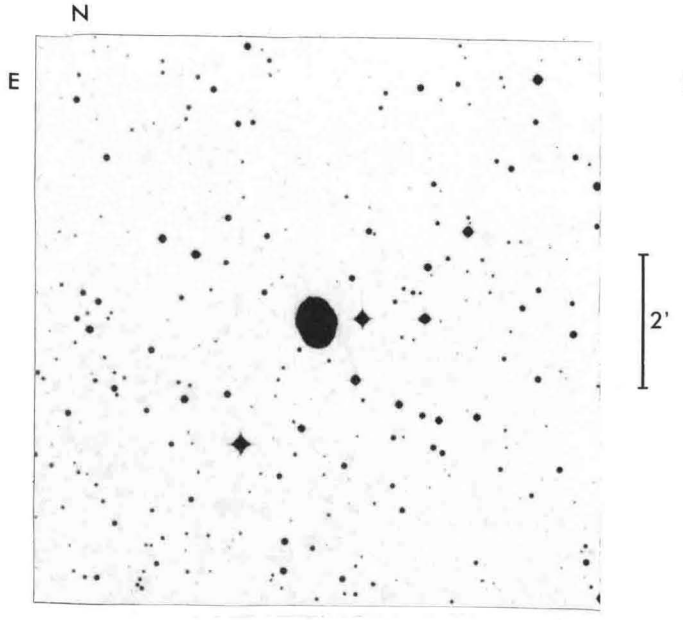
295.3-09.3 He 2- 62 SRC J 063



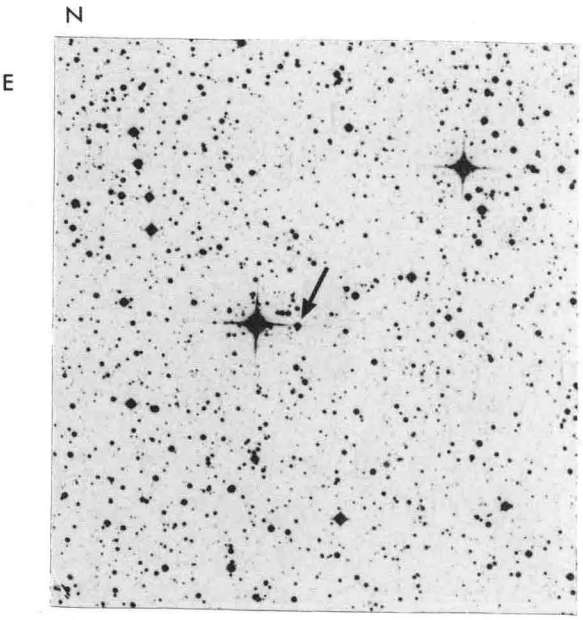
296.3-03.0 He 2- 73 SRC J 094



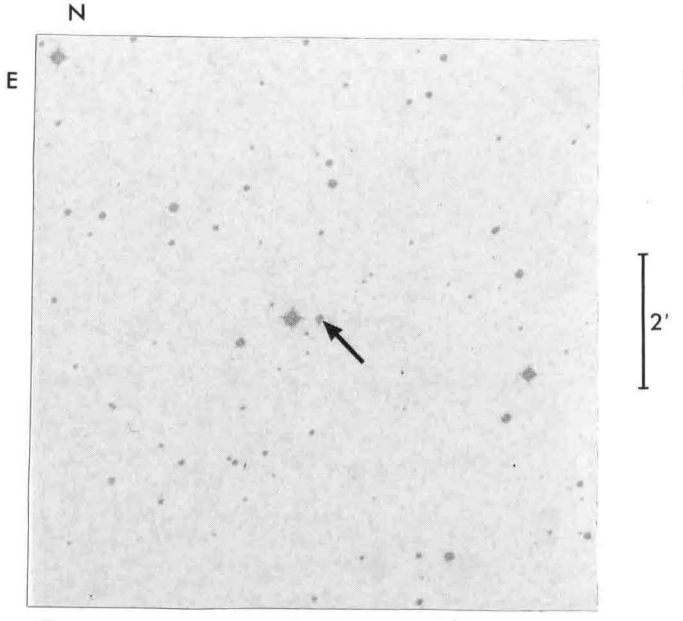
296.4-06.9 He 2- 71 SRC J 063



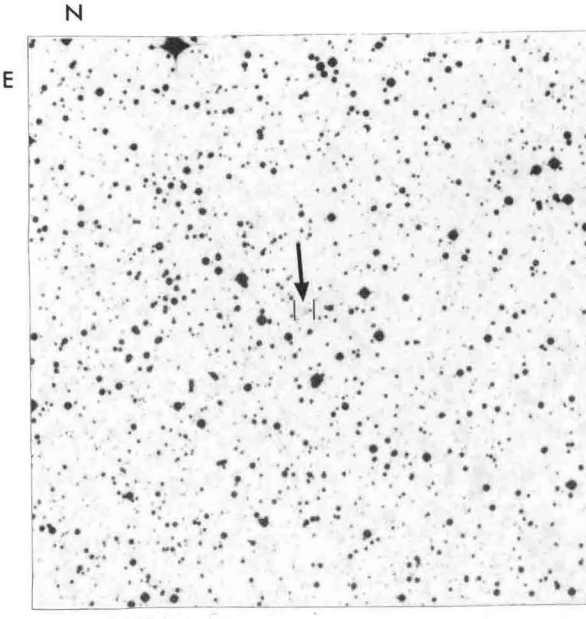
296.6-20.0 NGC 3195 SRC J 019



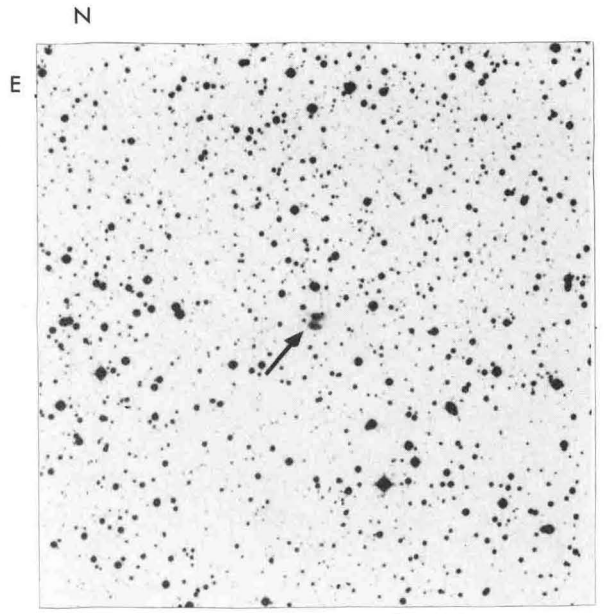
297.4+03.7 He 2- 78 SRC J 130



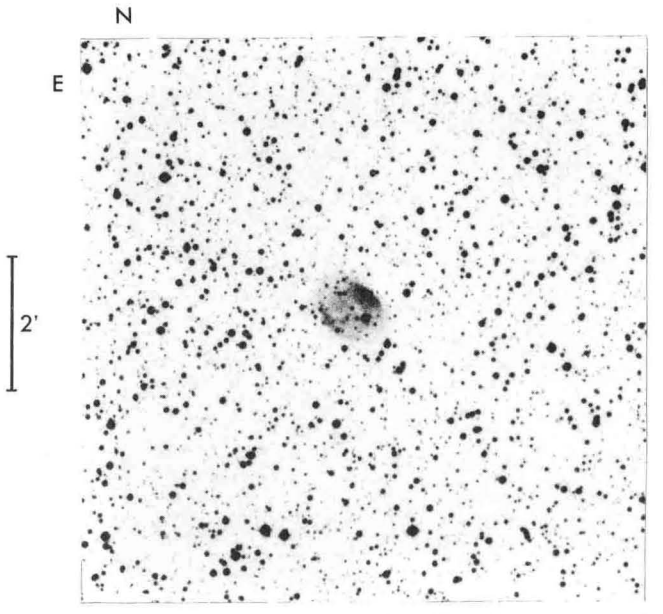
298.0+34.8 CTIO 1230-275 SRC J 506



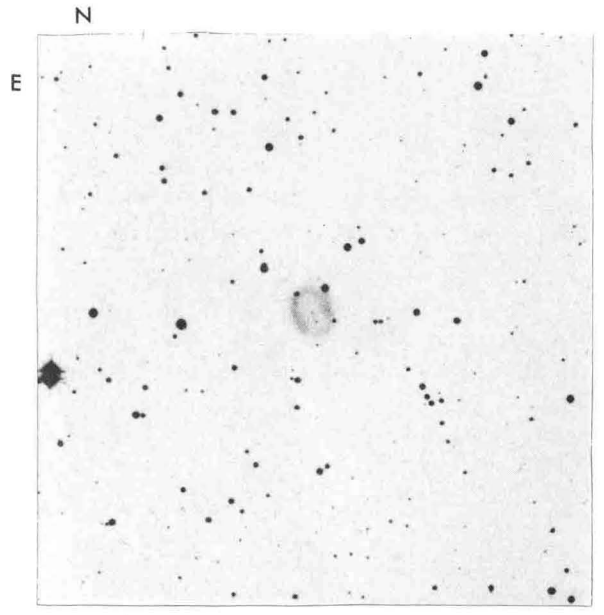
298.1- 00.7 He 2- 77 SRC J 130



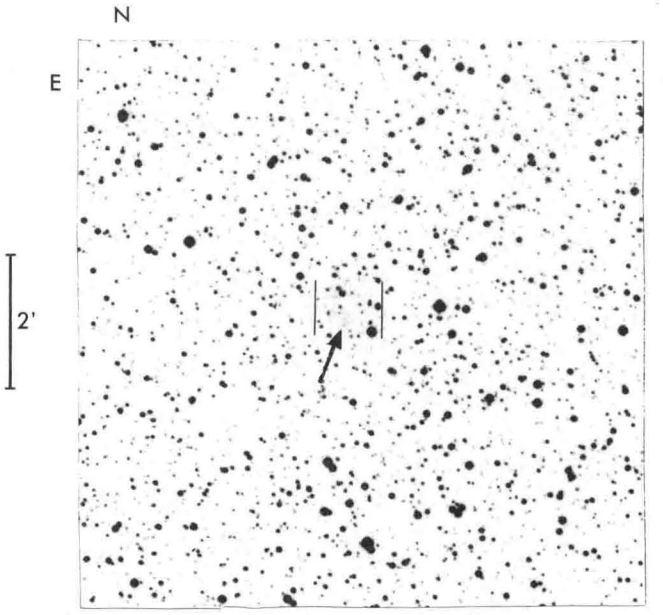
298.2-01.7 He 2- 76 SRC J 094



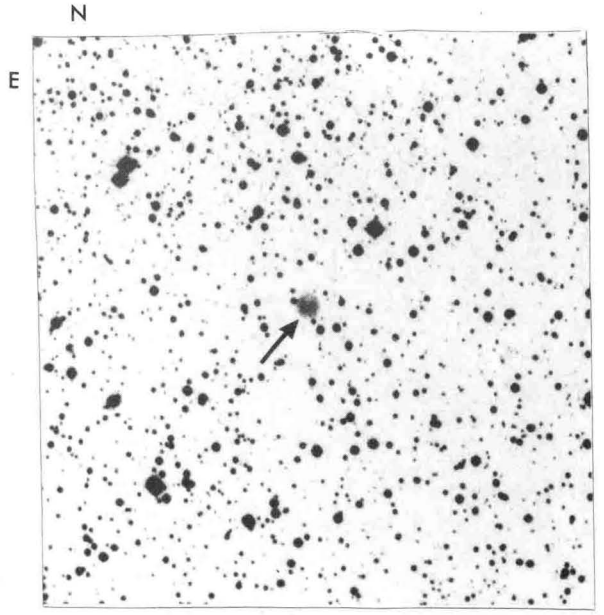
298.3-04.8 NGC 4071 SRC J 094



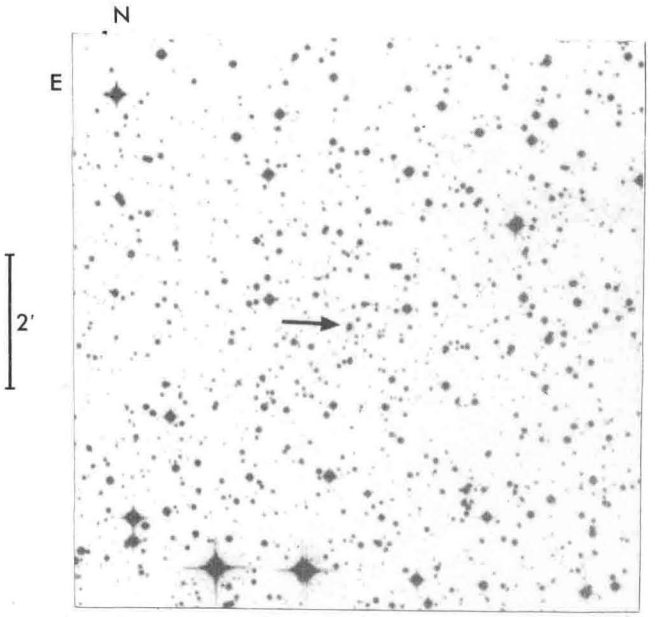
299.0+18.4 K 1-23 ESO R 268



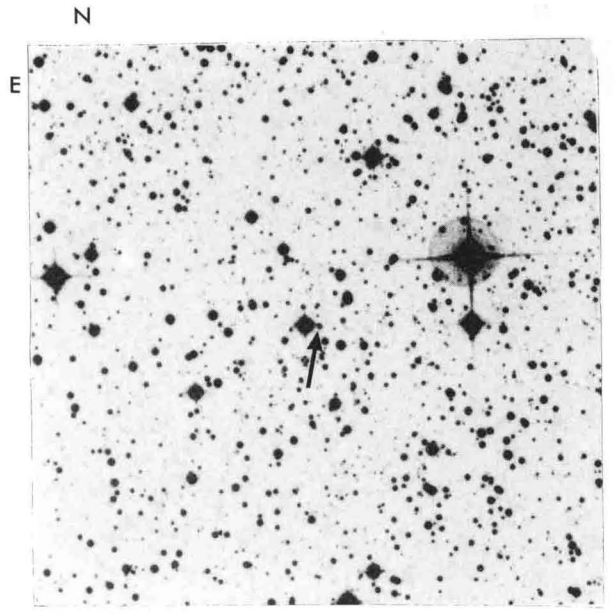
299.4-04.1 HaTr 1 ESO R 095



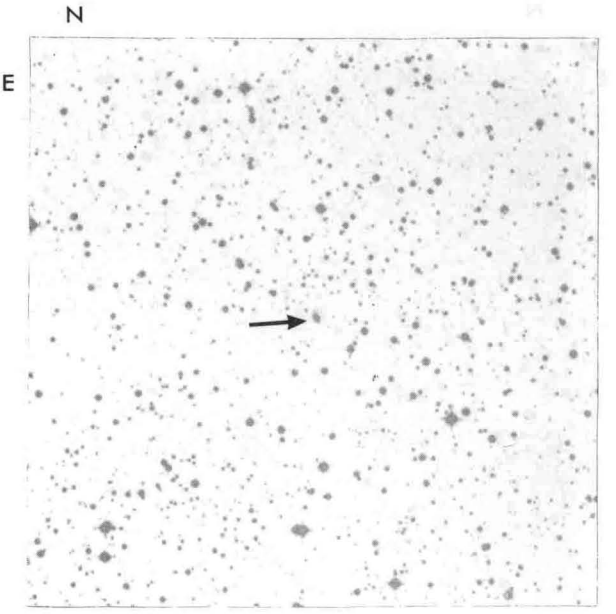
299.5+02.4 He 2- 82 SRC J 131



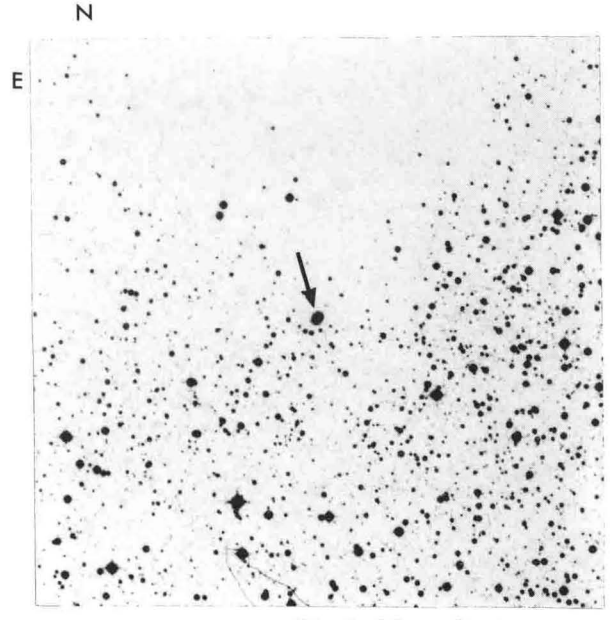
299.8-01.3 He 2- 81 SRC J 095



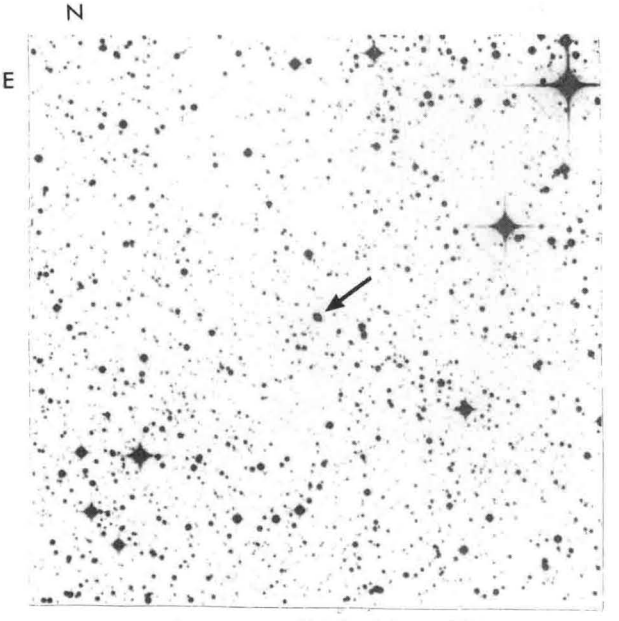
300.2+00.6 He 2- 83 SRC J 131



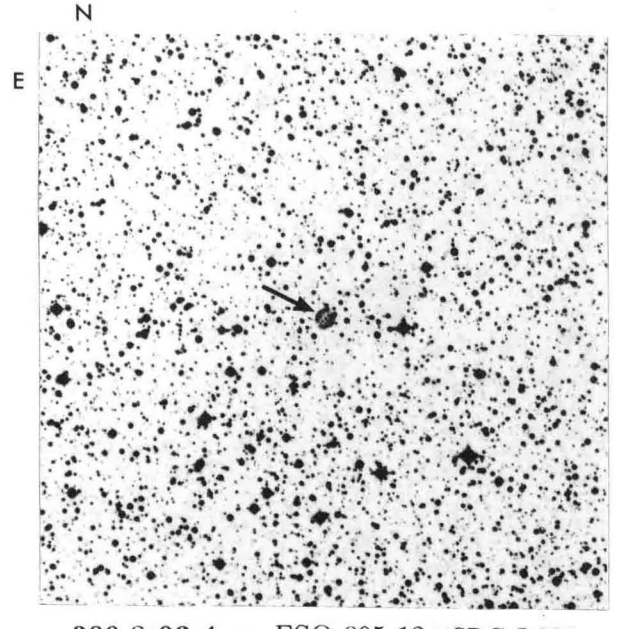
300.4 - 00.9 He 2- 84 SRC J 095



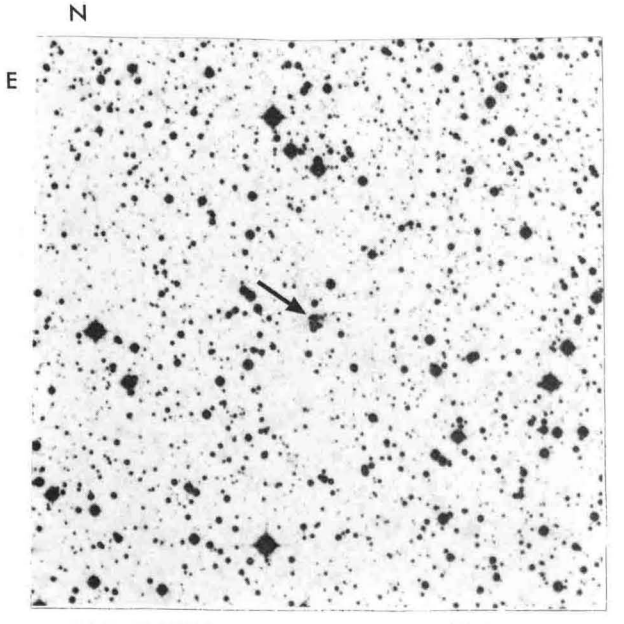
300.5-01.1 He 2- 85 SRC J 095



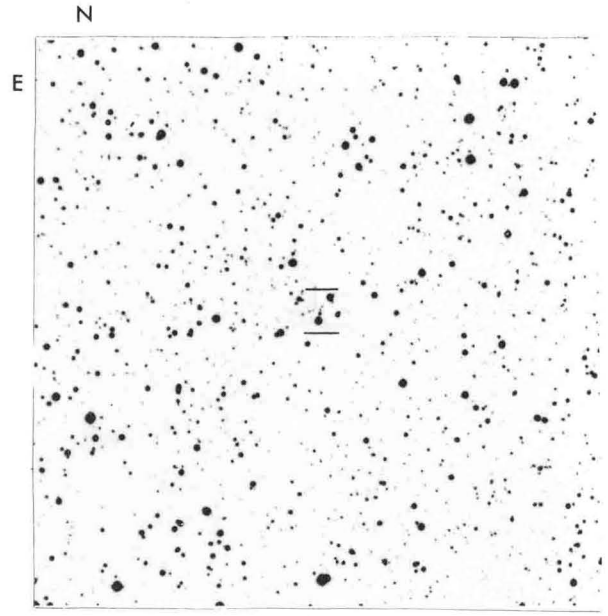
300.7-02.0 He 2- 86 SRC J 095



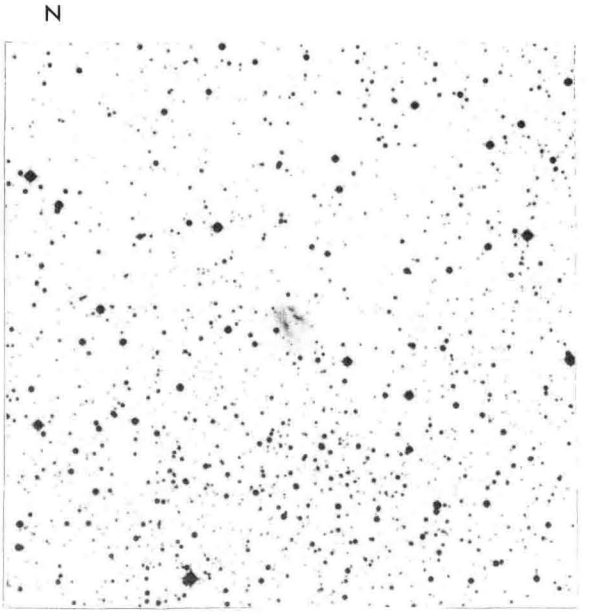
300.8-03.4 ESO 095-12 SRC J 095



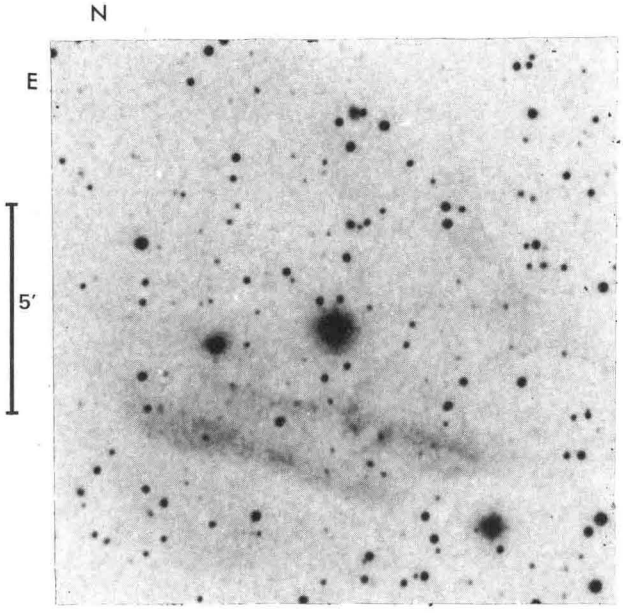
302.2+02.5 Wray 16-120 SRC J 131



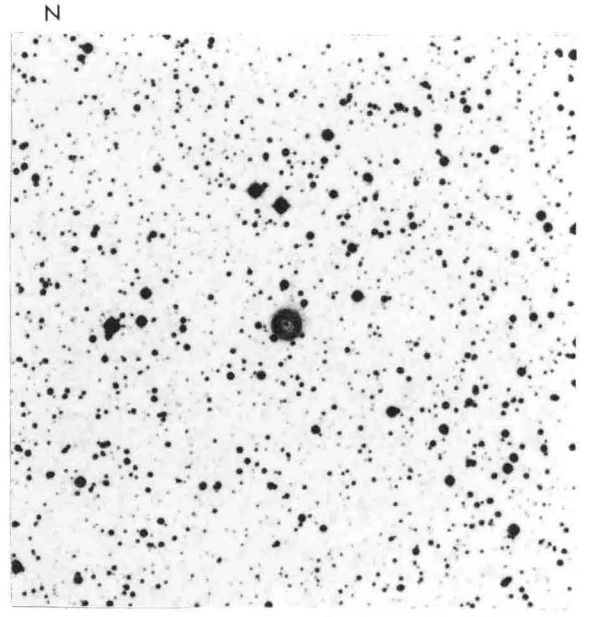
302.3-01.3 DuRe 1 ESO R 095



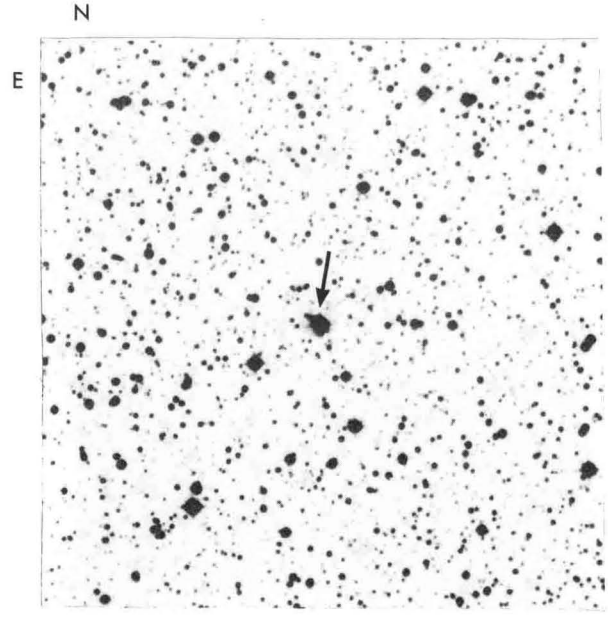
302.6–00.9 Wray 16-121 SRC J 095



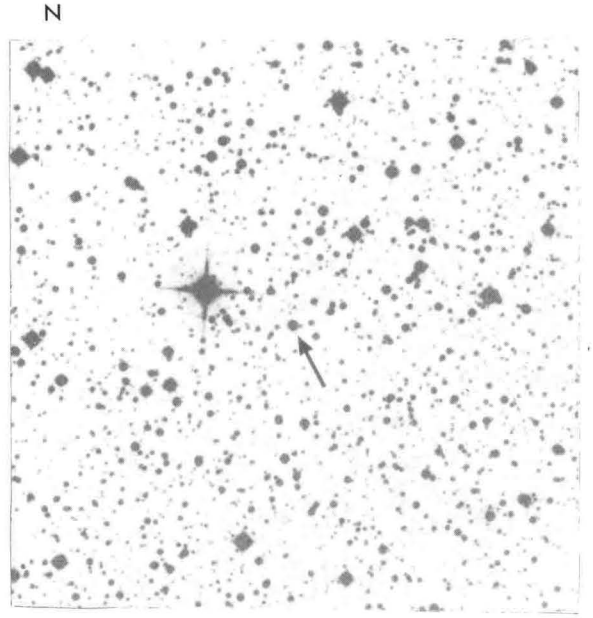
303.6+40.0 A 35 POS E 979



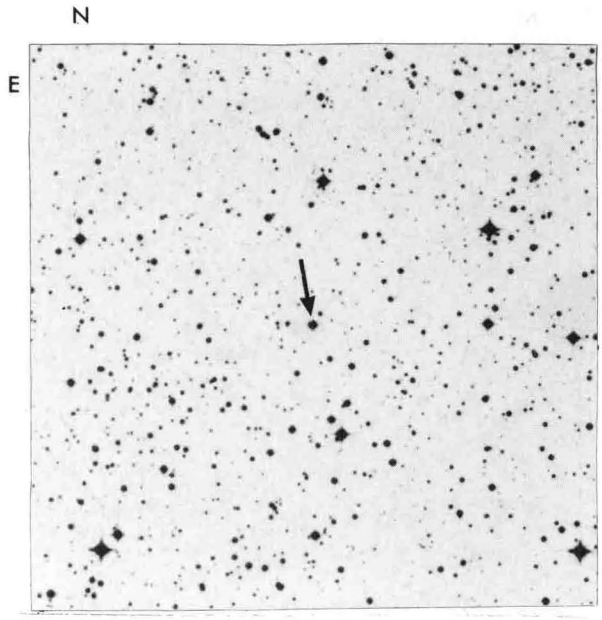
304.2+05.9 Wray 16-122 SRC J 173



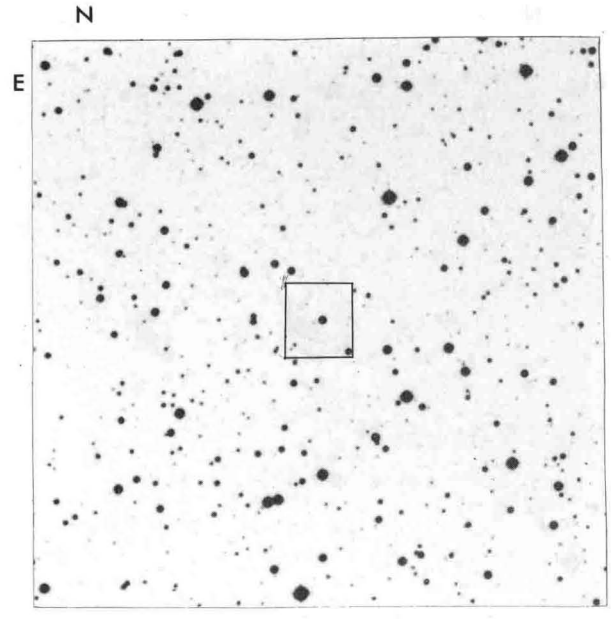
304.5-04.8 IC 4191 SRC J 096



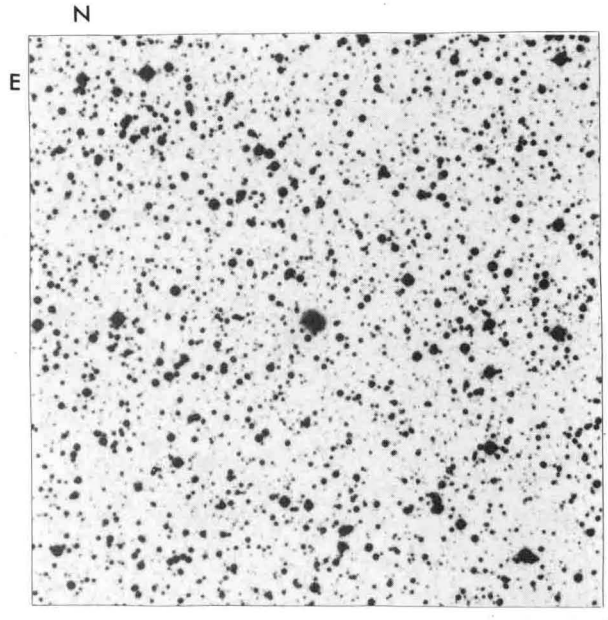
304.8+05.1 He 2- 88 SRC J 173



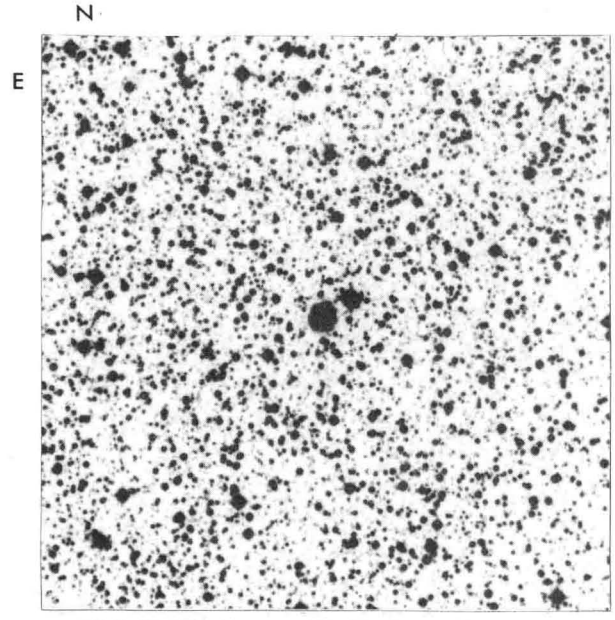
305.1+01.4 He 2- 90 SRC J 132



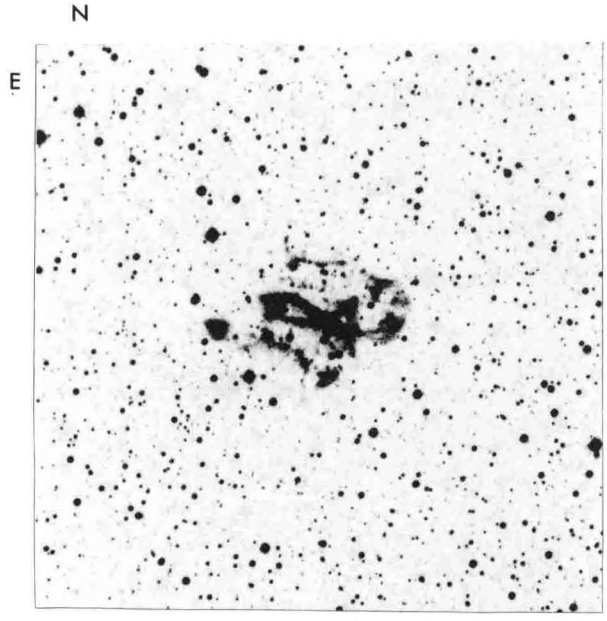
305.6-13.1 ESO 040-11 SRC J 040



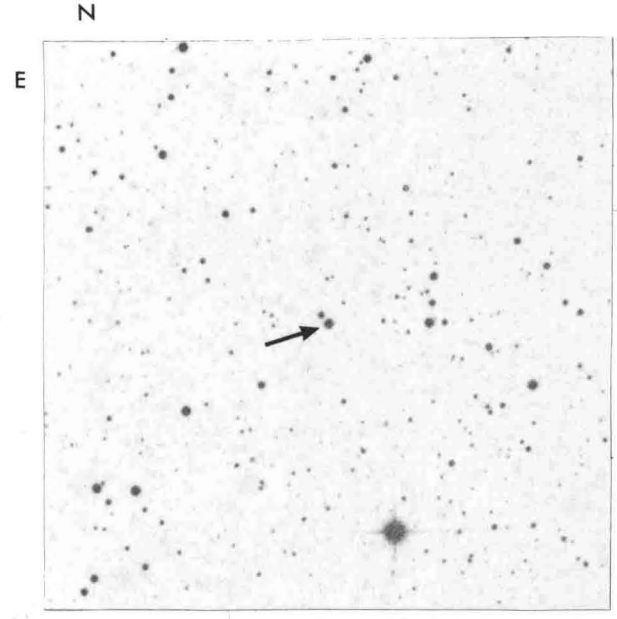
305.7-03.4 Wray 17- 59 SRC J 096



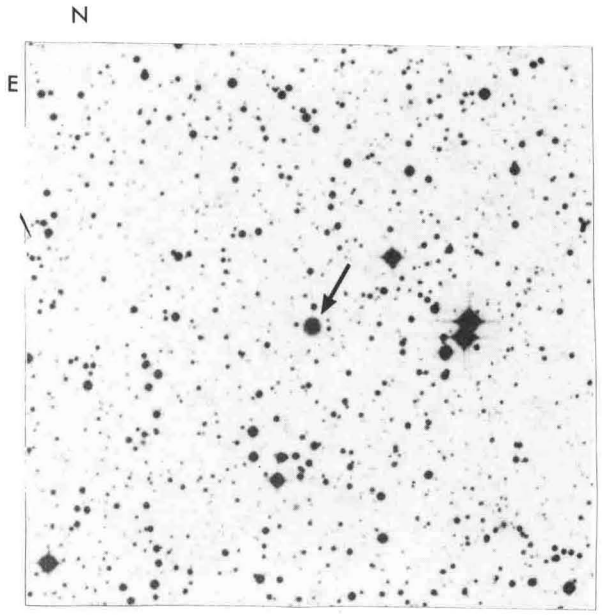
306.4 - 00.6 Th 2- A SRC J 096



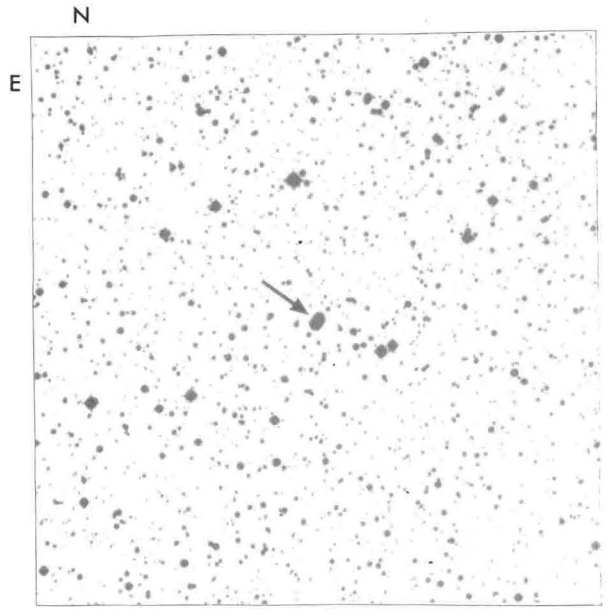
307.2-03.4 NGC 5189 ESO R 096



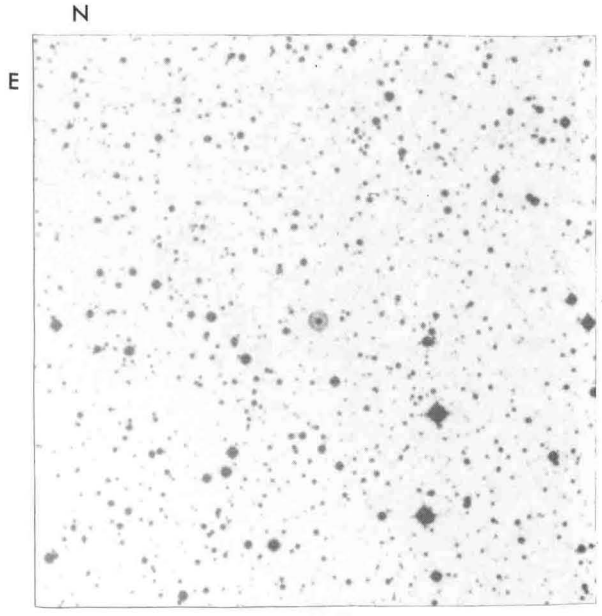
307.2-09.0 He 2- 97 ESO B 066



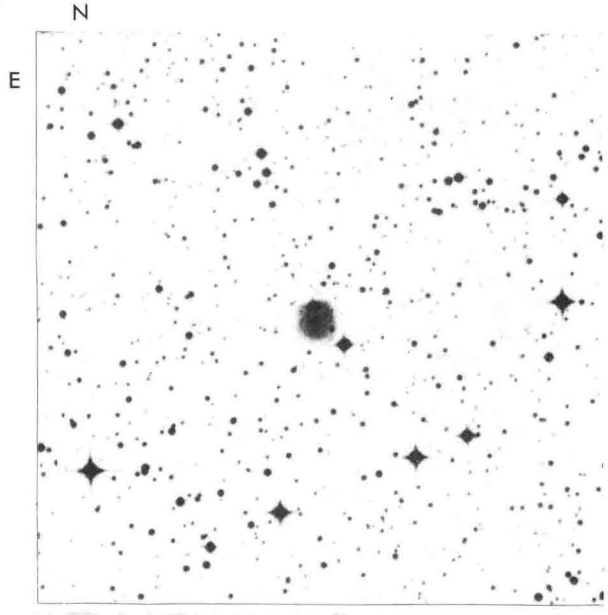
307.3+05.0 Wray 16- 128 SRC J 173



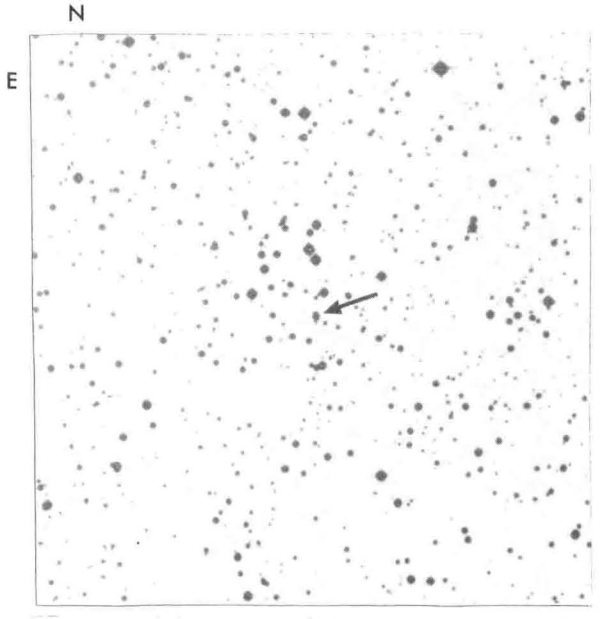
307.5-04.9 My Cn 18 SRC J 097



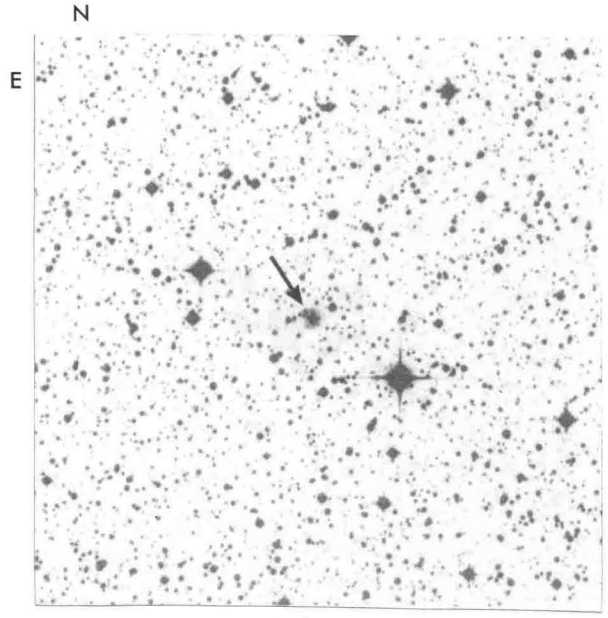
308.2+07.7 MeWe 1-3 SRC J 173



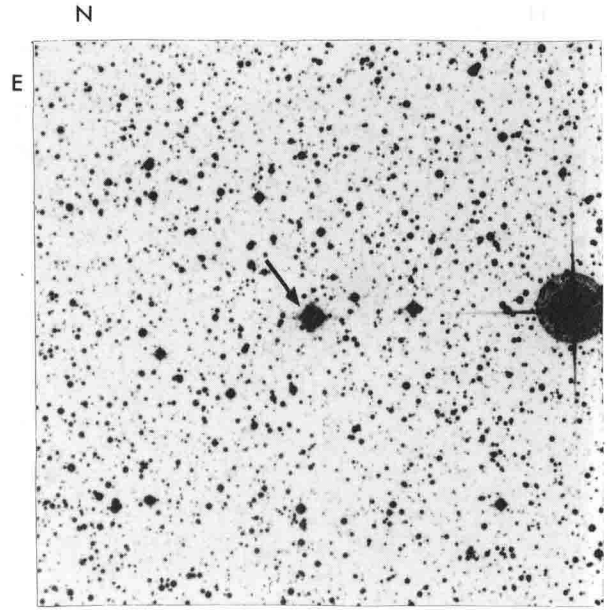
308.6-12.2 He 2-105 ESO B 041



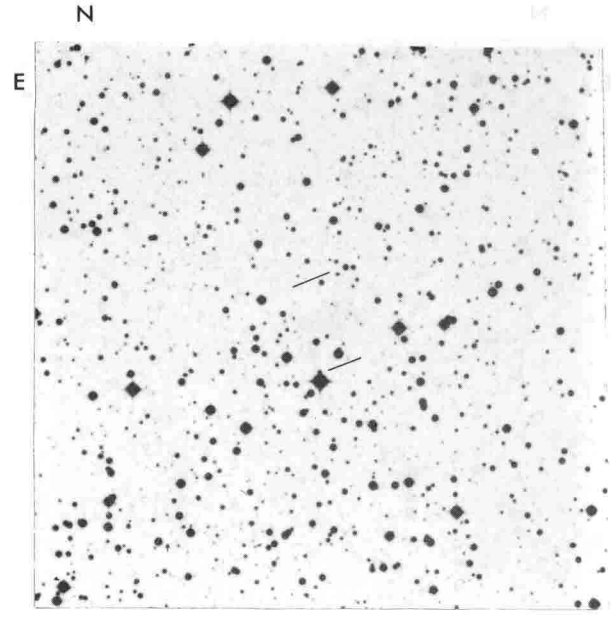
309.0+00.8 He 2- 96 SRC J 133



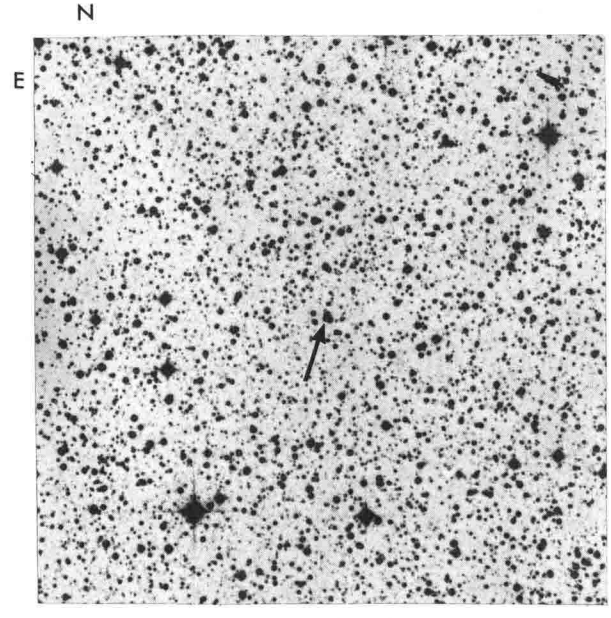
309.0-04.2 He 2- 99 SRC J 097



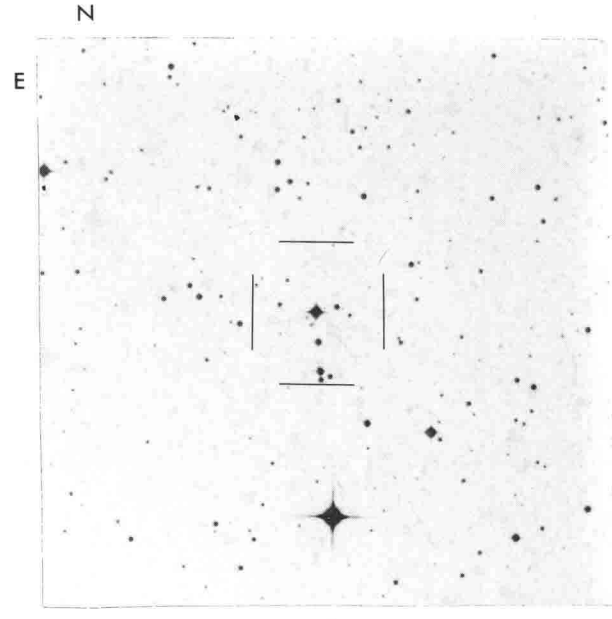
309.1-04.3 NGC 5315 SRC J 097



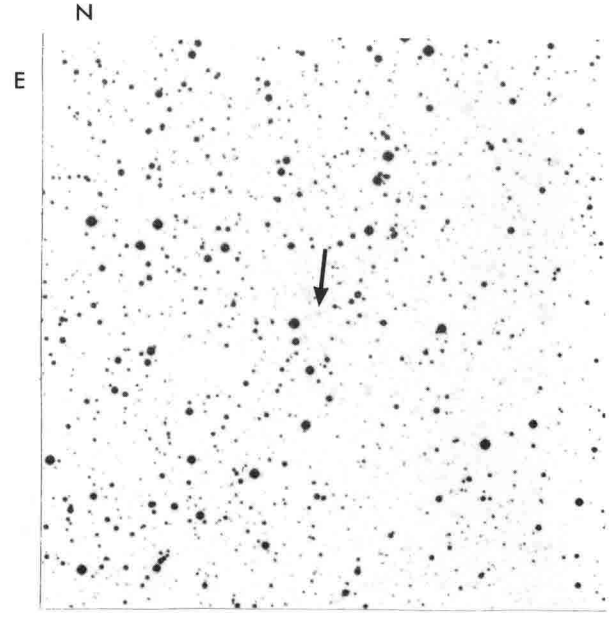
309.2+01.3 VBRC 5 SRC J 133



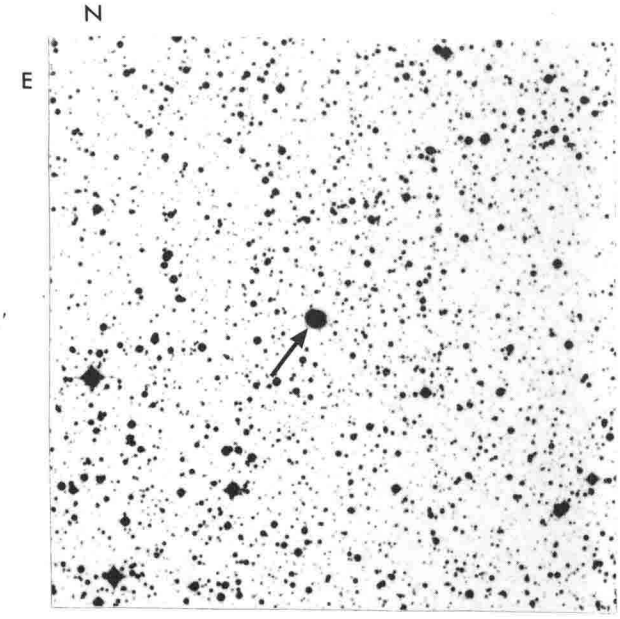
309.5-02.9 MaC 1- 2 SRC J 097



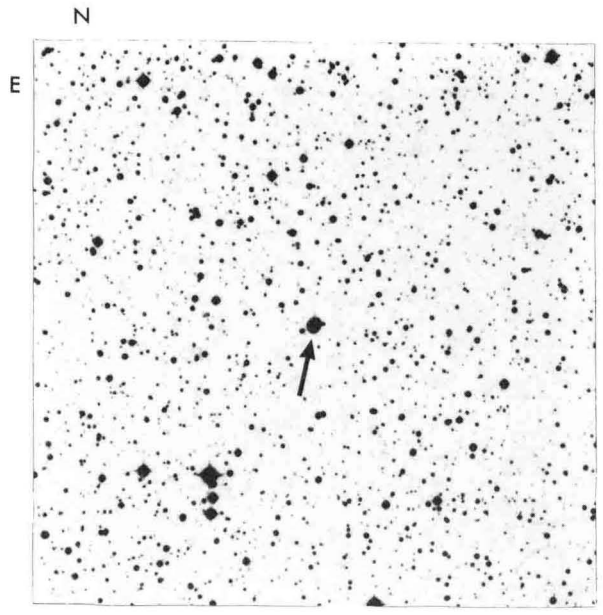
310.3+24.7 Lo 8 SRC J 324



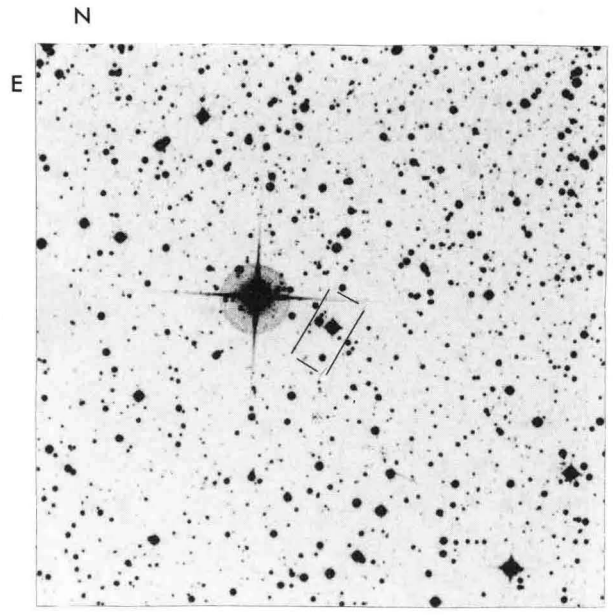
310.4+01.3 Vo 4 ESO R 133



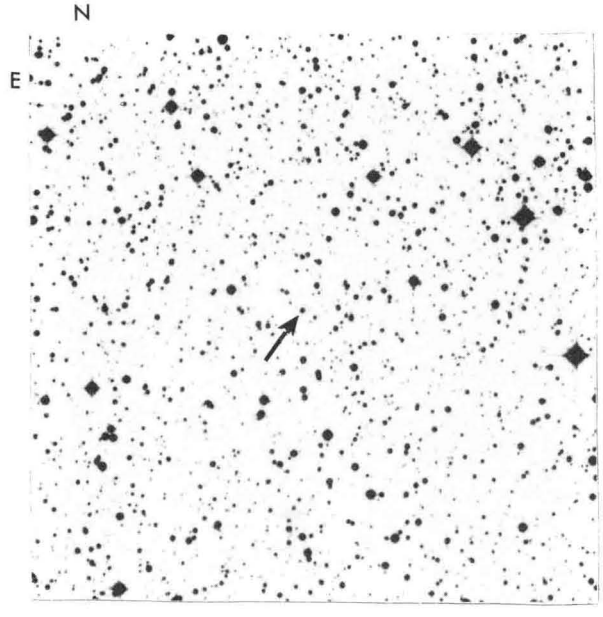
310.7-02.9 He 2-103 SRC J 097



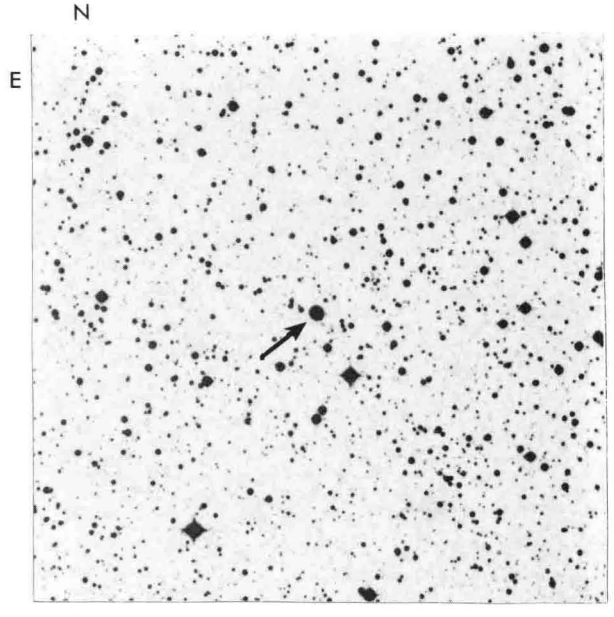
310.8-05.9 LoTr 7 SRC J 097



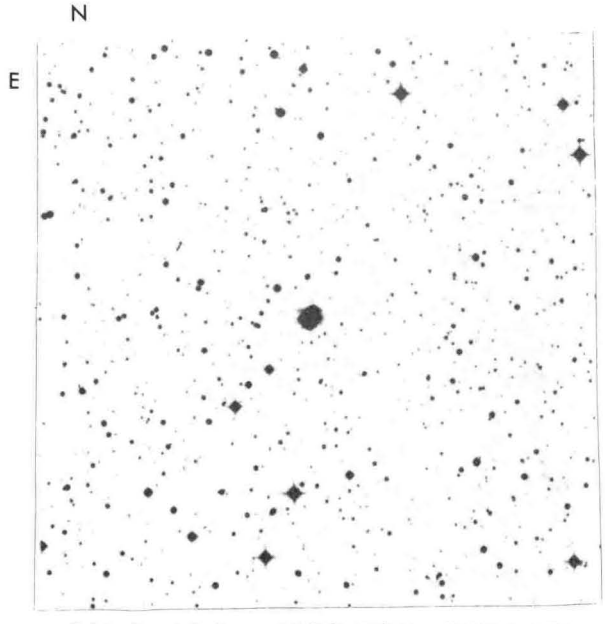
311.0+02.4 SuWt 2 SRC J 133



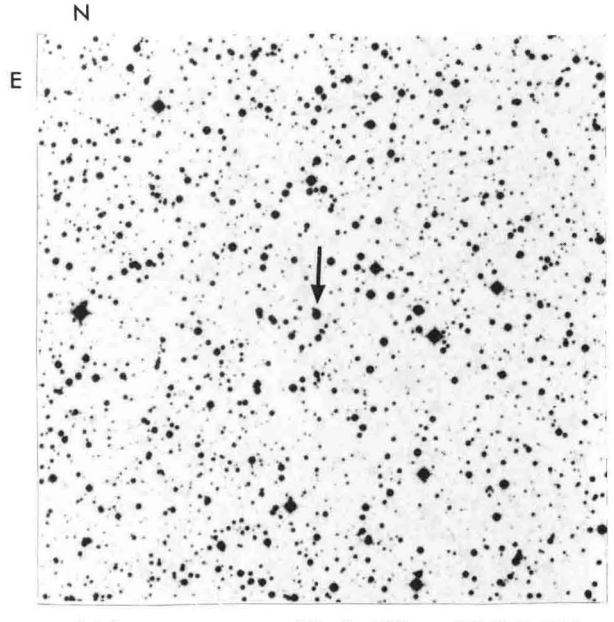
311.1+03.4 He 2-101 SRC J 133



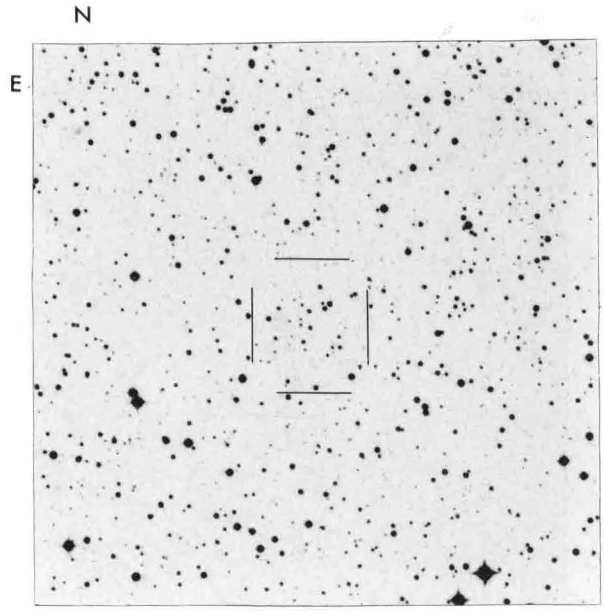
311.4+02.8 He 2-102 SRC J 133



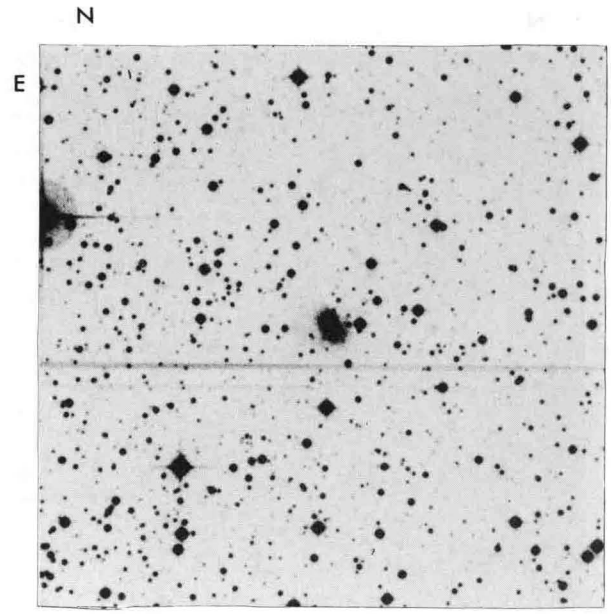
312.3+10.5 NGC 5307 SRC J 221



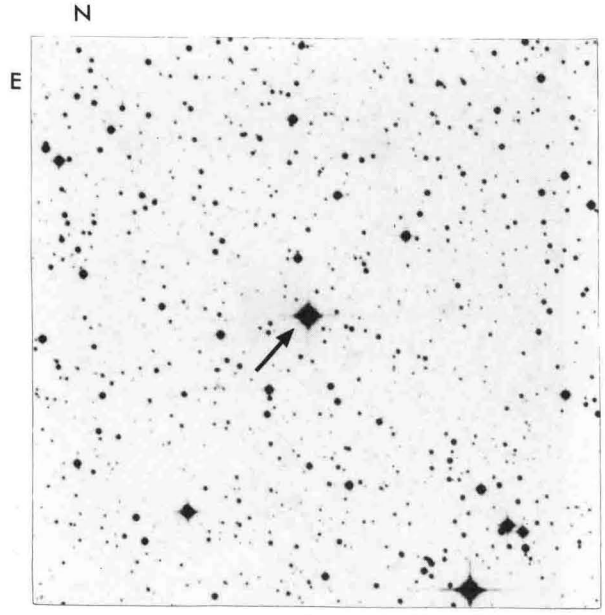
312.6-01.8 He 2-107 SRC J 097



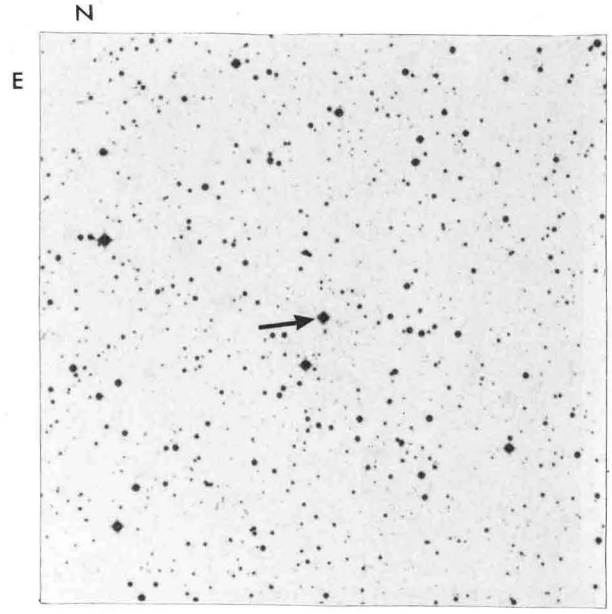
313.8-12.6 LoTr 11 SRC J 068



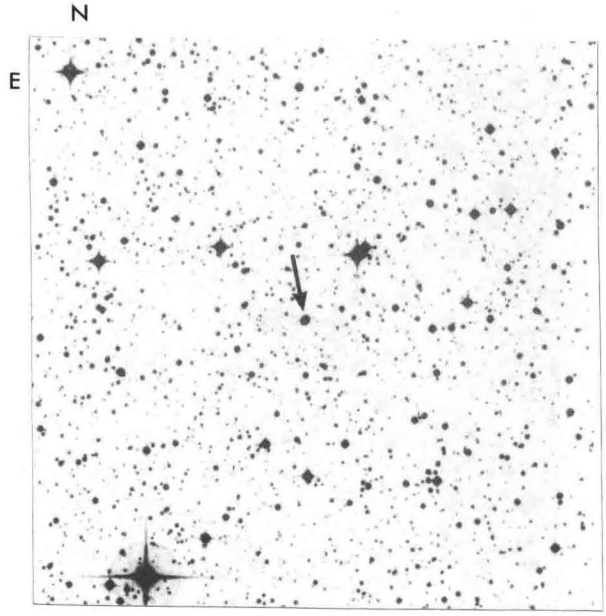
315.0 - 00.3 He 2-111 SRC J 134



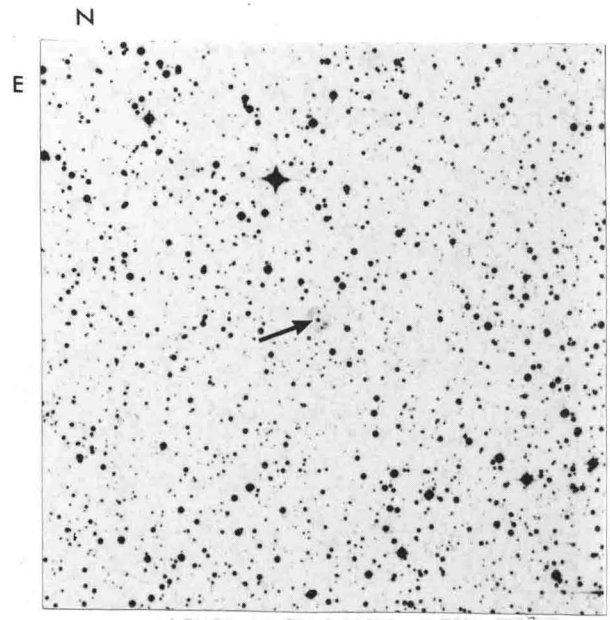
315.1-13.0 He 2-131 SRC J 068



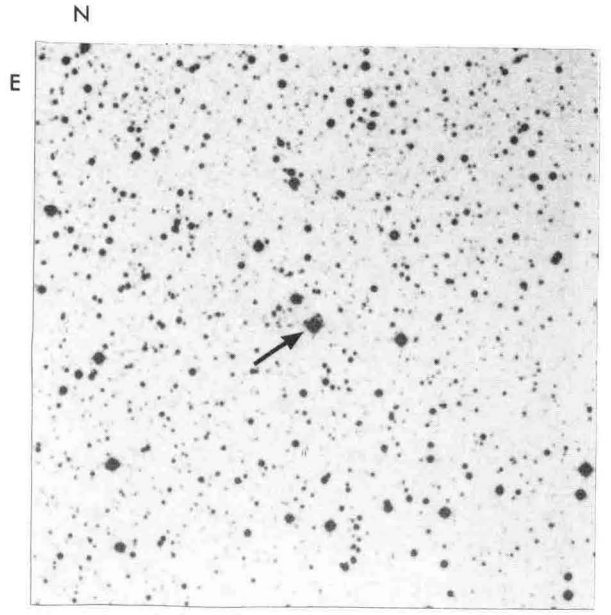
315.4+09.4 He 2-104 SRC J 221



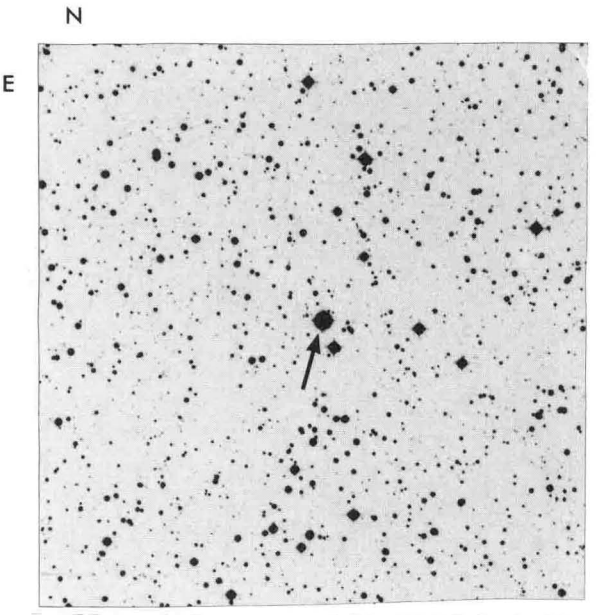
315.4+05.2 He 2-109 SRC J 175



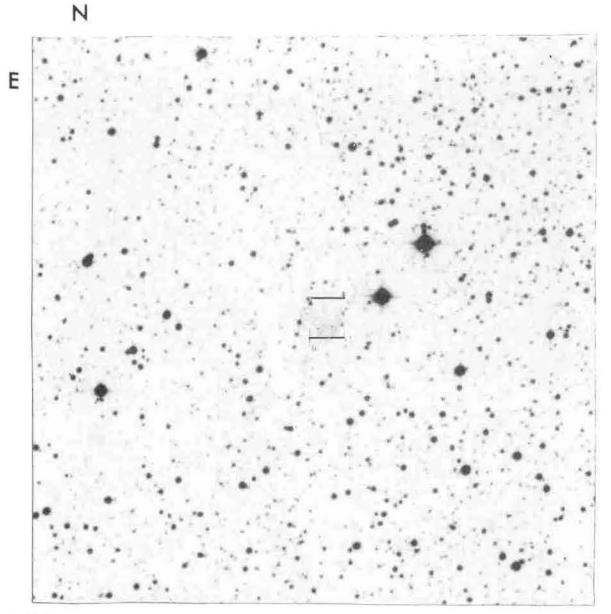
315.7+05.5 LoTr 8 SRC J 175



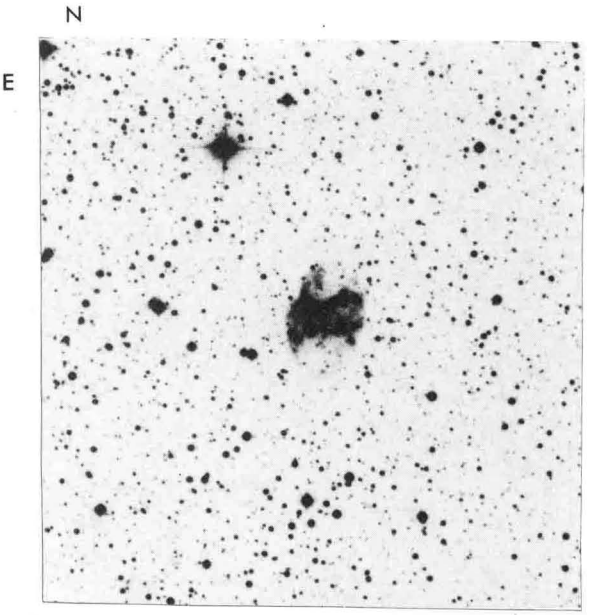
315.7-01.2 LoTr 9 SRC J 098



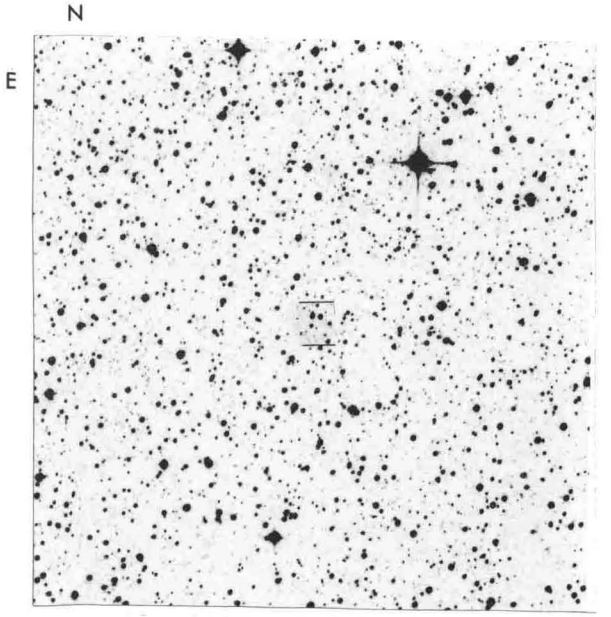
316.1+08.4 He 2-108 SRC J 221



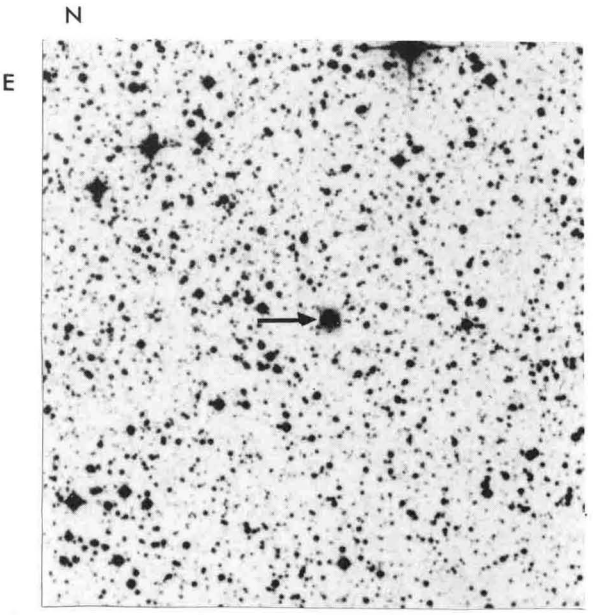
316.3-01.3 LoTr 10 ESO R 134



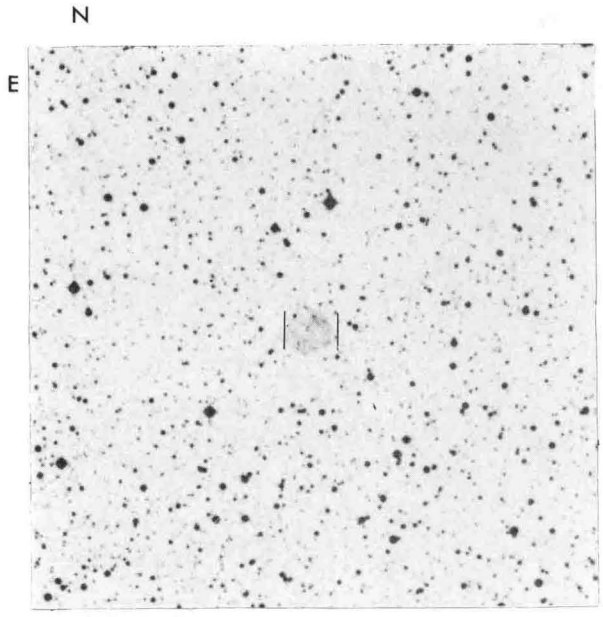
317.1-05.7 He 2-119 ESO R 099



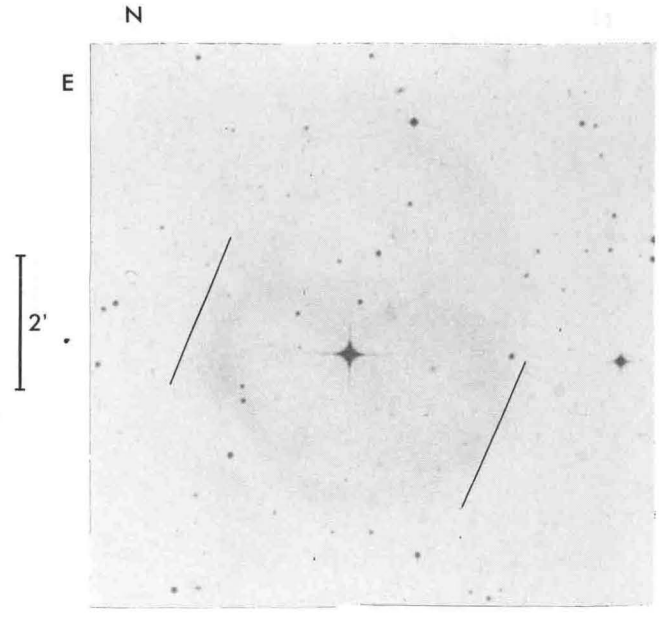
317.8+03.3 VBRC 6 SRC J 176



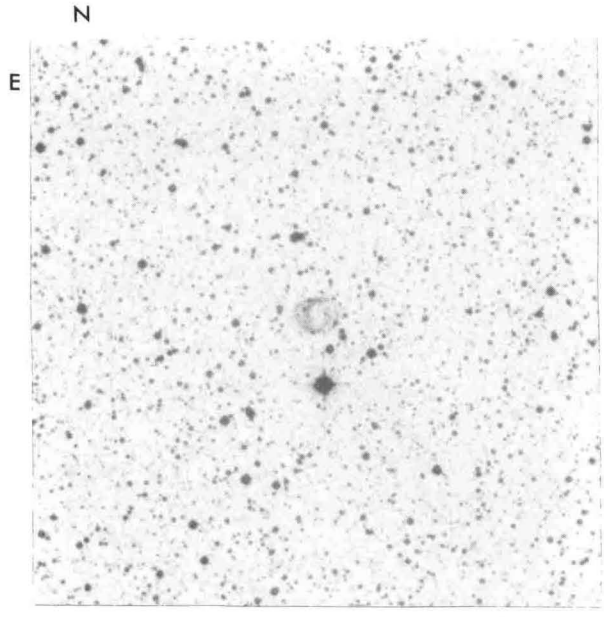
318.3-02.0 He 2-114 SRC J 135



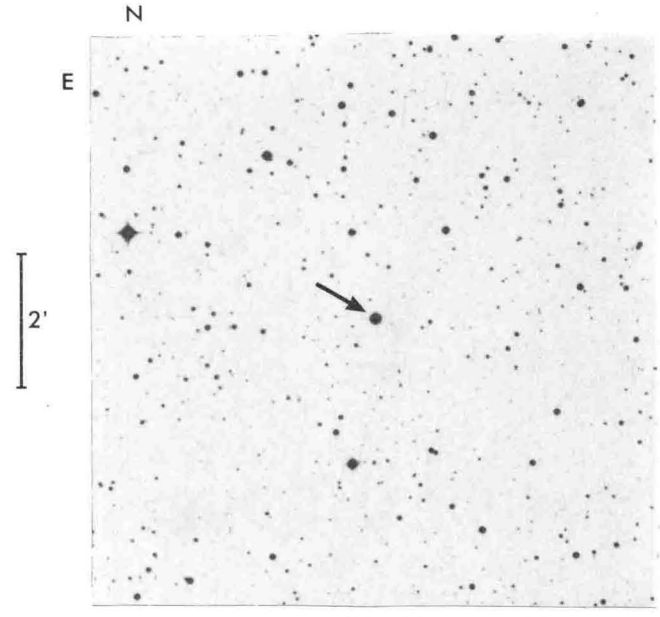
318.3-02.5 He 2-116 SRC J 135



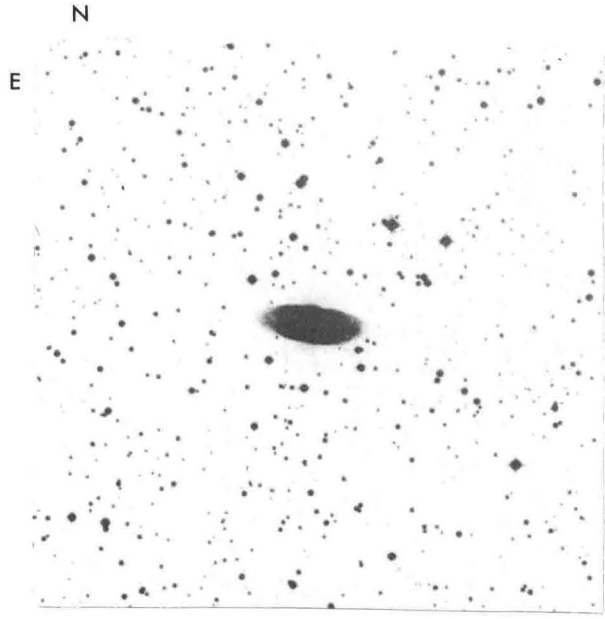
318.4+41.4 A 36 SRC J 577



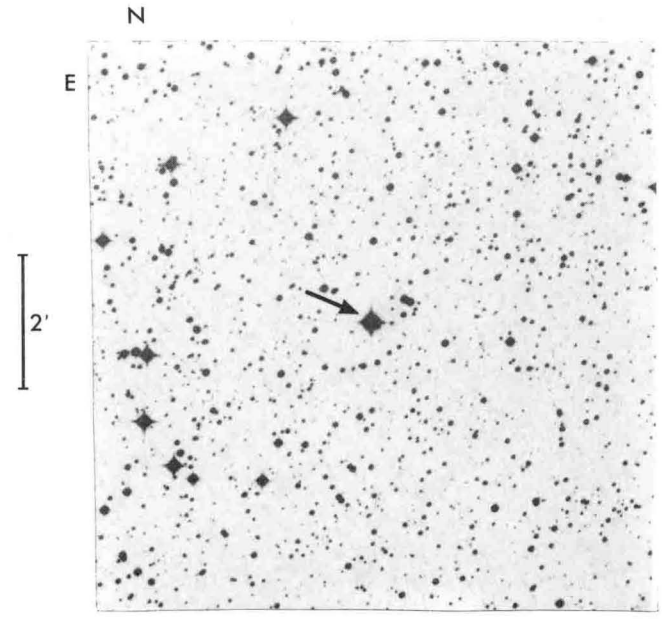
318.4-03.0 Zo 1 ESO R 135



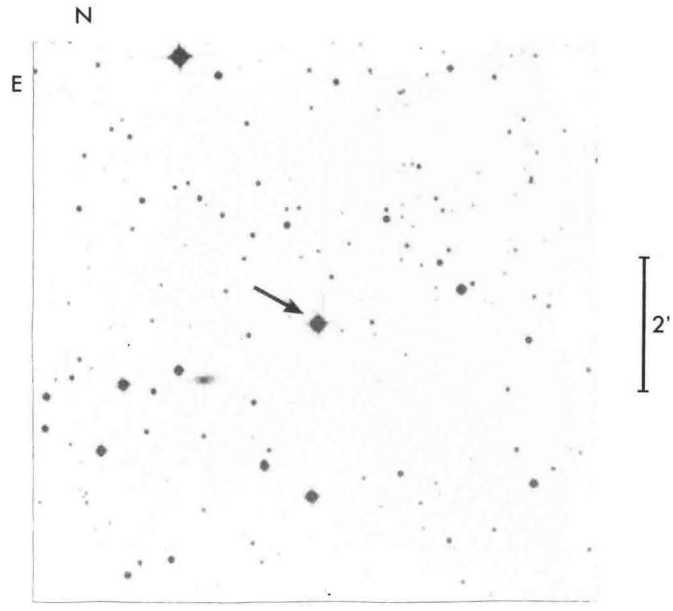
319.2+06.8 He 2-112 SRC J 222



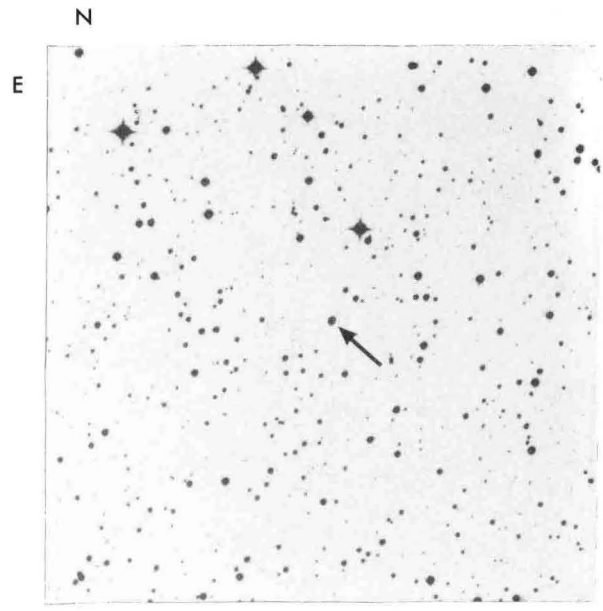
319.6+15.7 IC 4406 SRC J 272



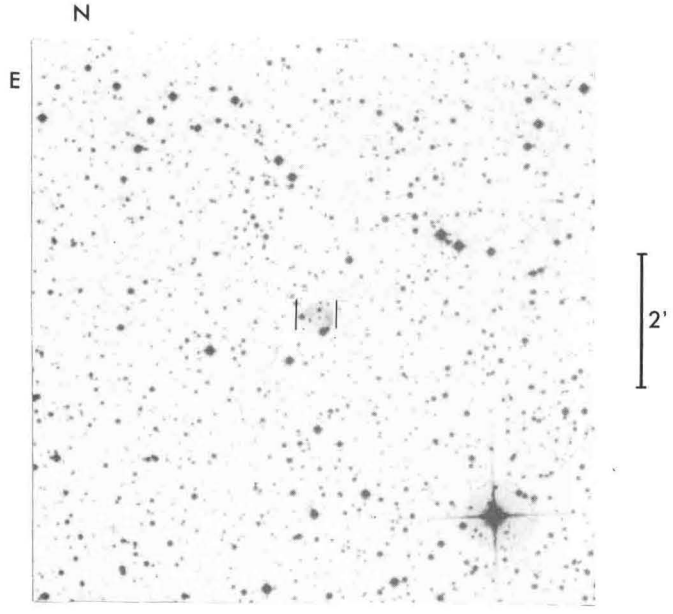
320.1-09.6 He 2-138 SRC J 100



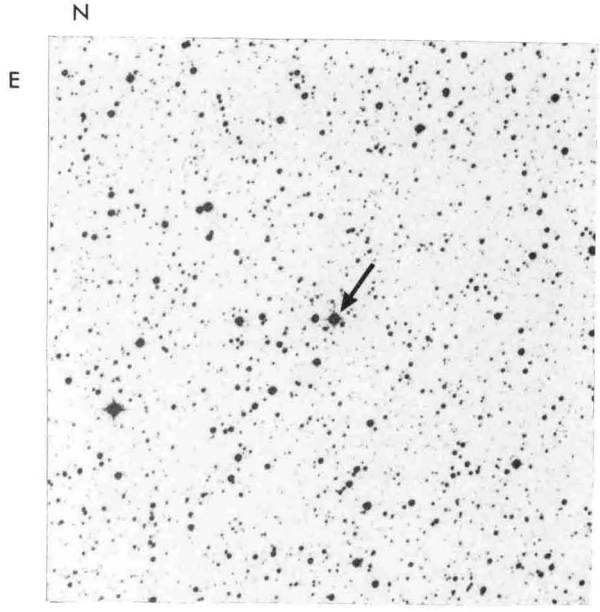
320.3-28.8 He 2-434 SRC J 046



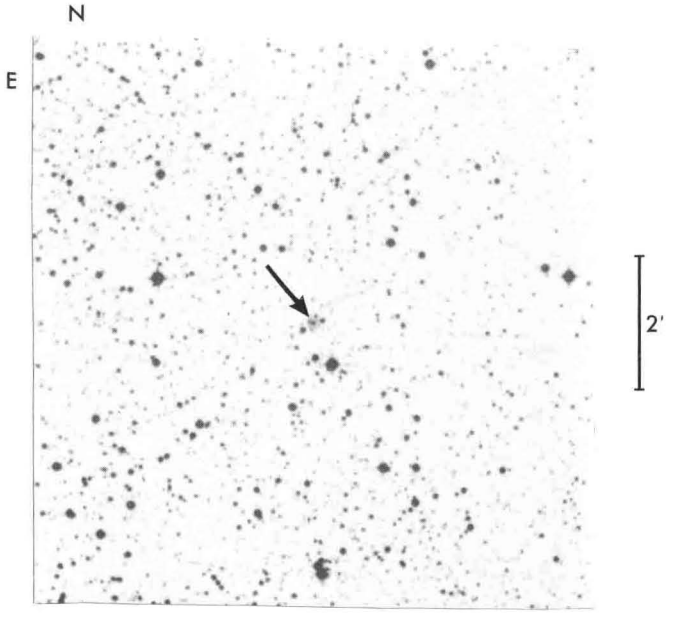
320.9+02.0 He 2-117 SRC J 176



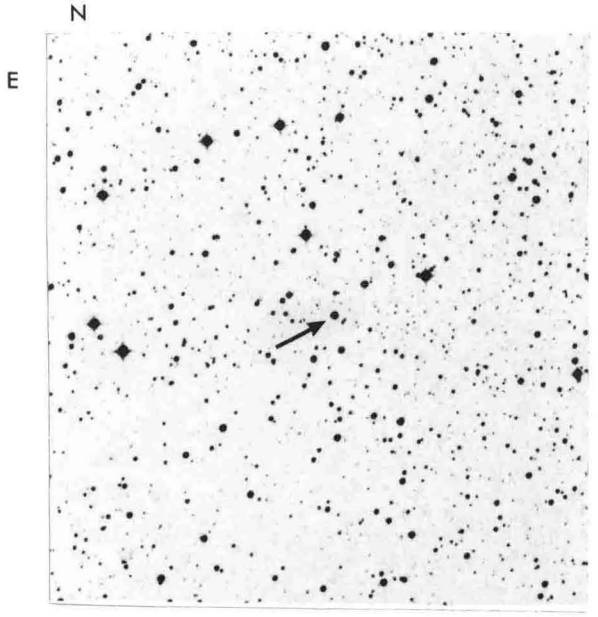
321.0+08.3 MeWe 1- 5 SRC J 222



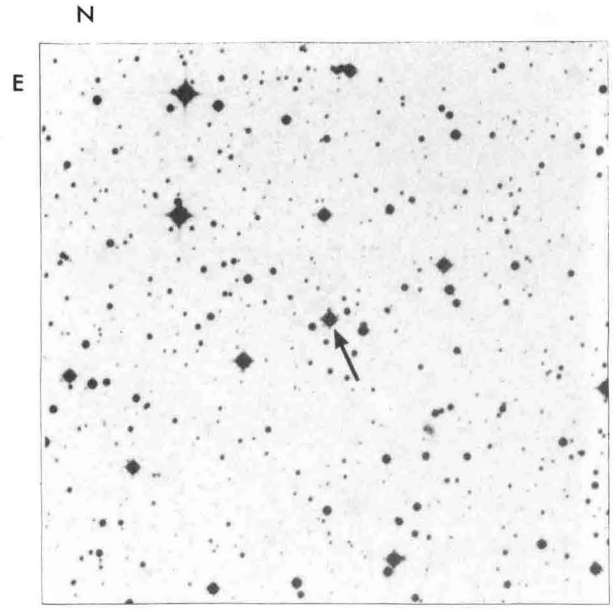
321.0+03.9 He 2-113 SRC J 176



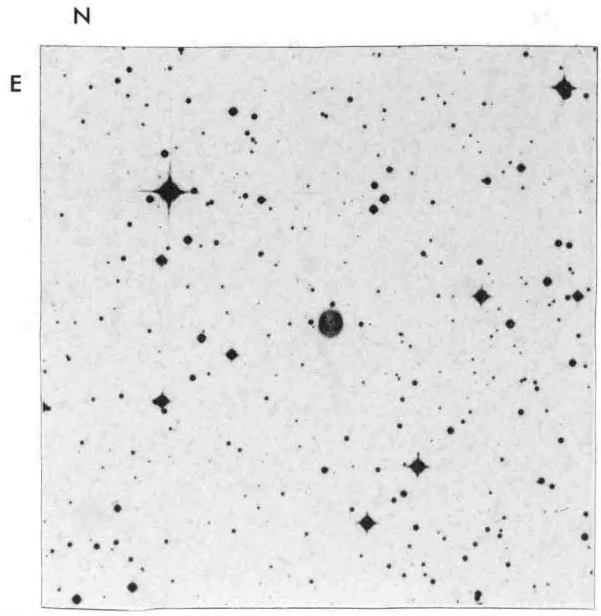
321.0-03.8 HaTr 2 SRC J 135



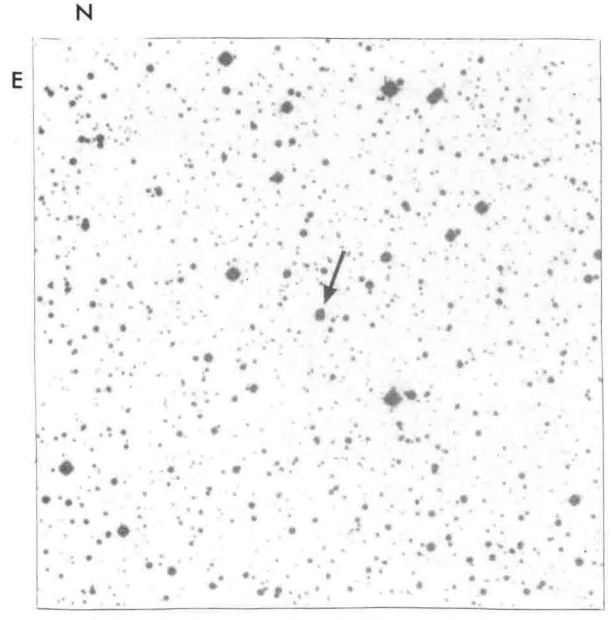
321.3+02.8 He 2-115 SRC J 176



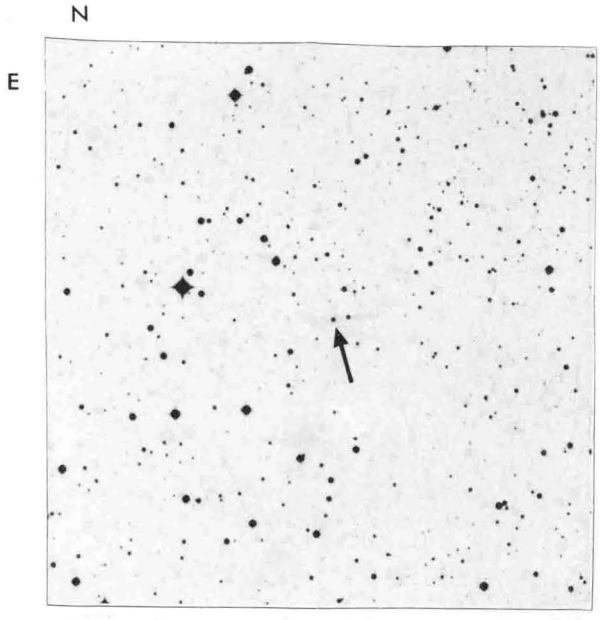
321.3-16.7 He 2-185 SRC J 070



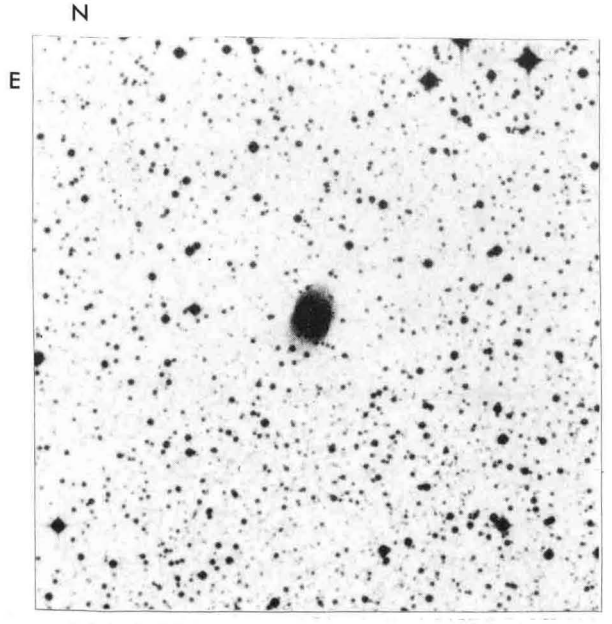
321.8+01.9 He 2-120 SRC J 177



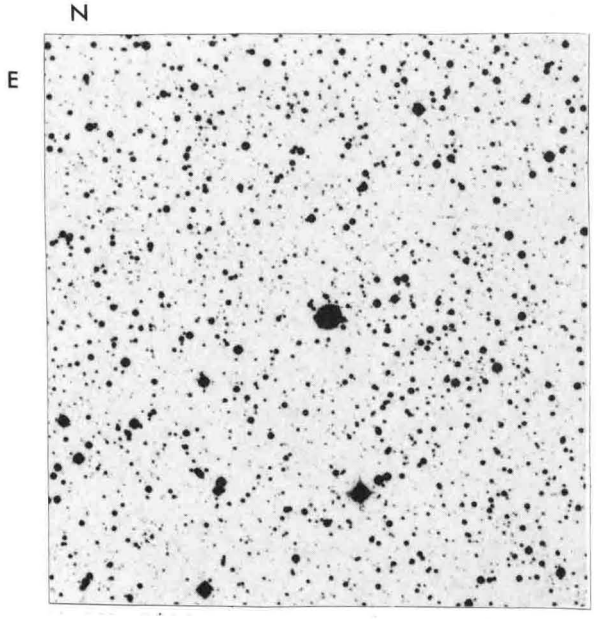
322.1-06.6 He 2-136 ESO R 136



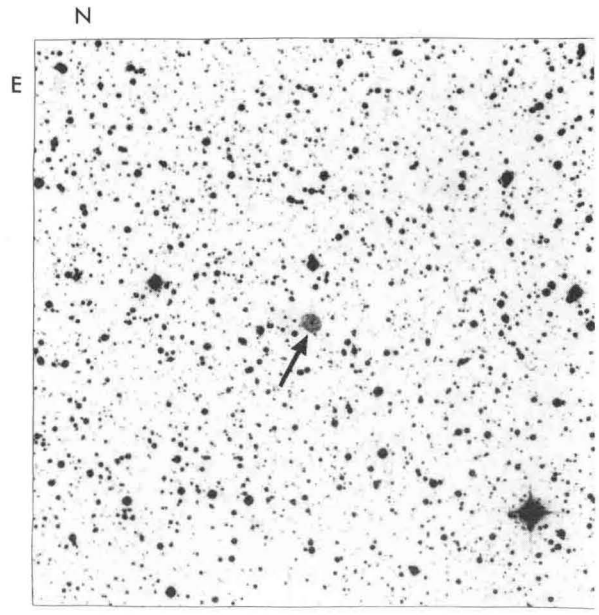
322.4 - 00.1 Pe 2- 8 SRC J 177



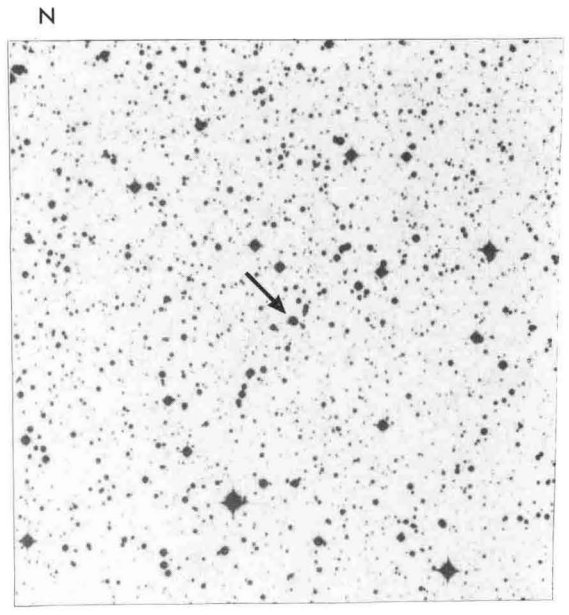
322.4-02.6 Mz 1 SRC J 135



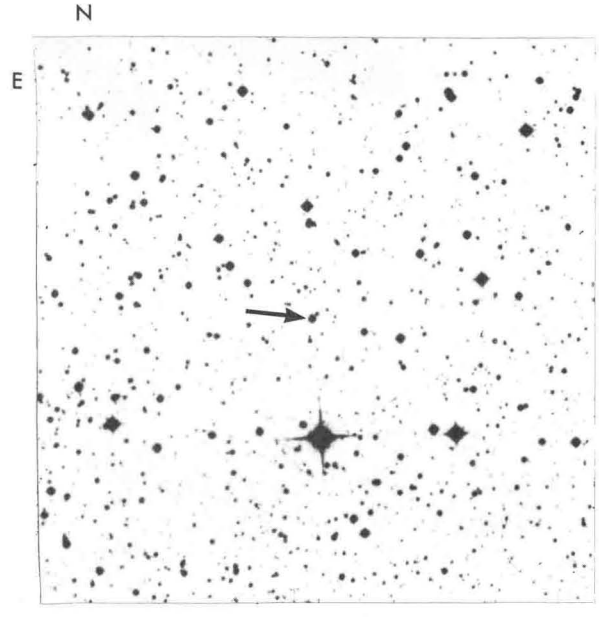
322.5-05.2 NGC 5979 ESO R 136



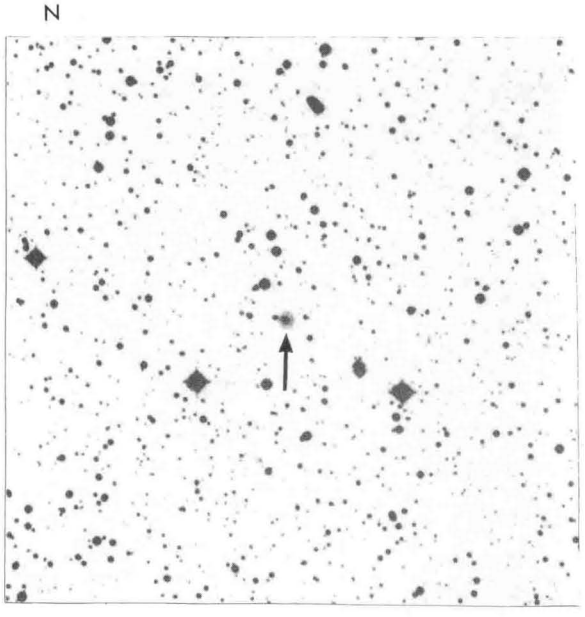
323.1-02.5 He 2-132 ESO R 136



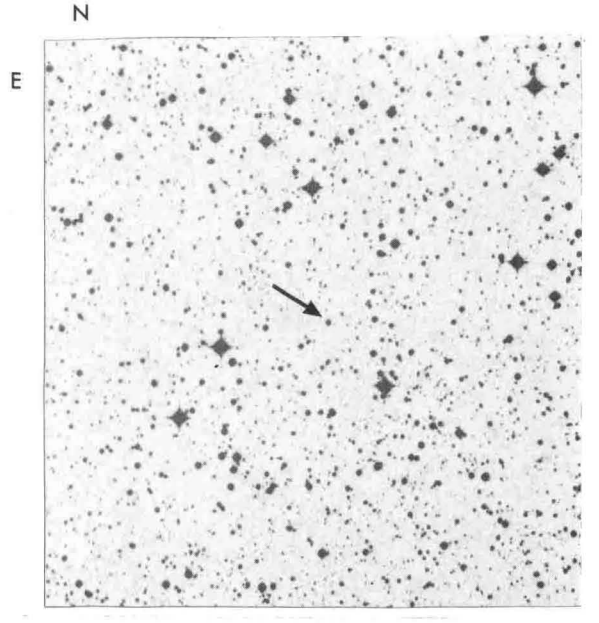
323.9+02.4 He 2-123 SRC J 177



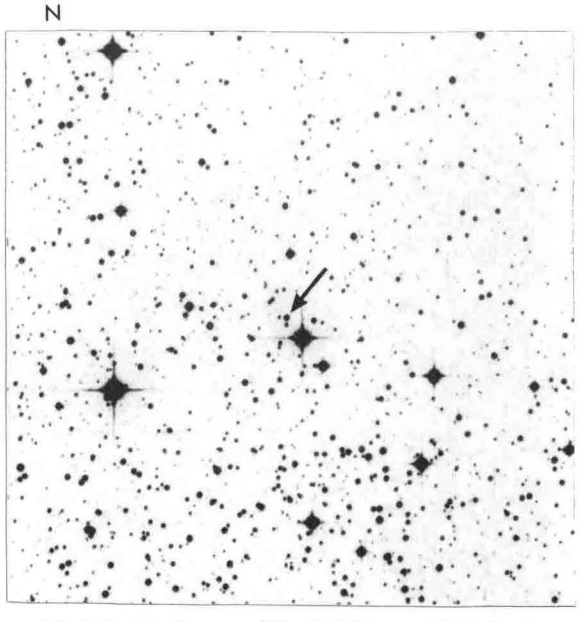
324.0+03.5 PM 1-89 SRC J 177



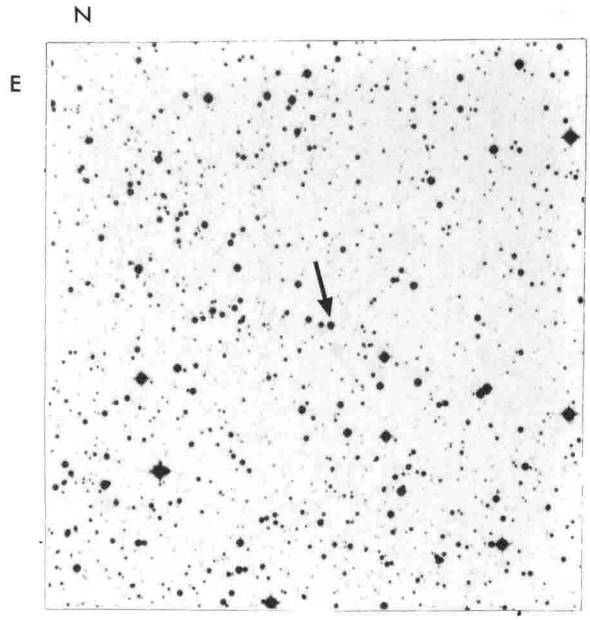
324.1+09.0 ESO 223-10 SRC J 223



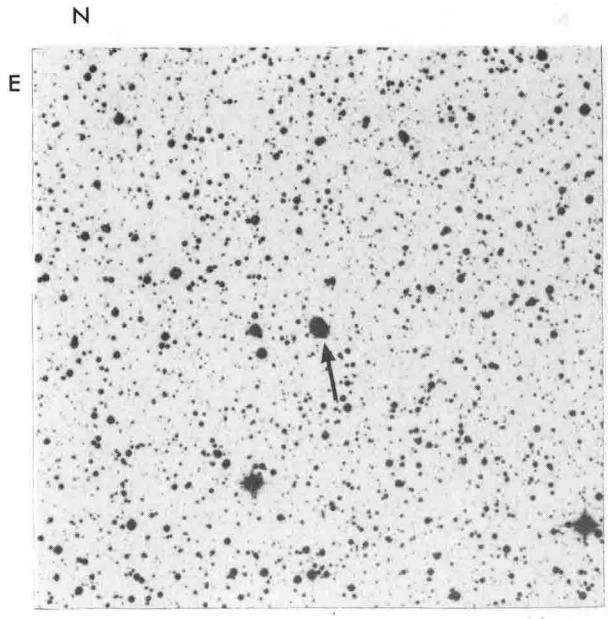
324.2+02.5 He 2-125 SRC J 177



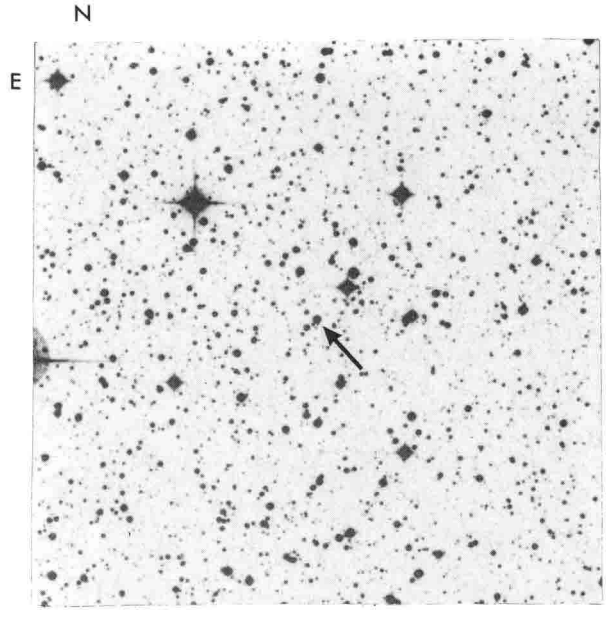
324.8-01.1 He 2-133 SRC J 177



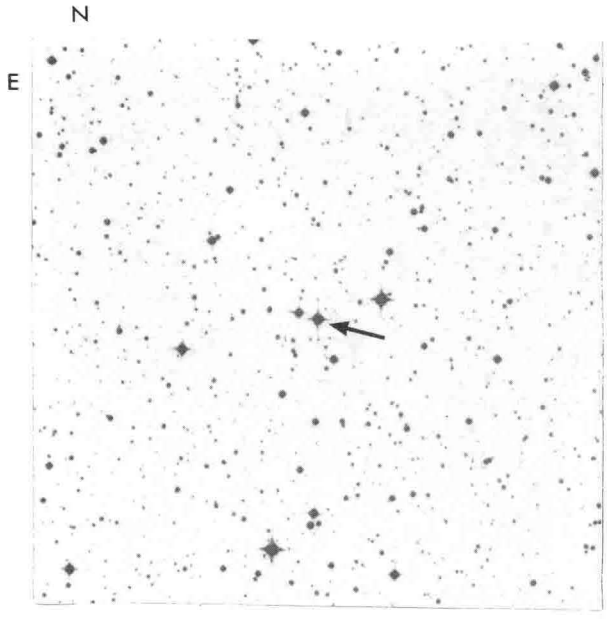
325.0+03.2 He 2-129 SRC J 177



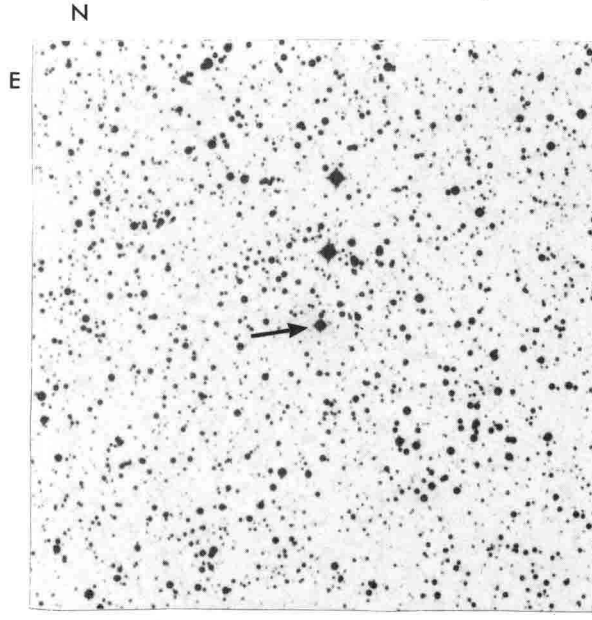
325.4-04.0 He 2-141 ESO R 136



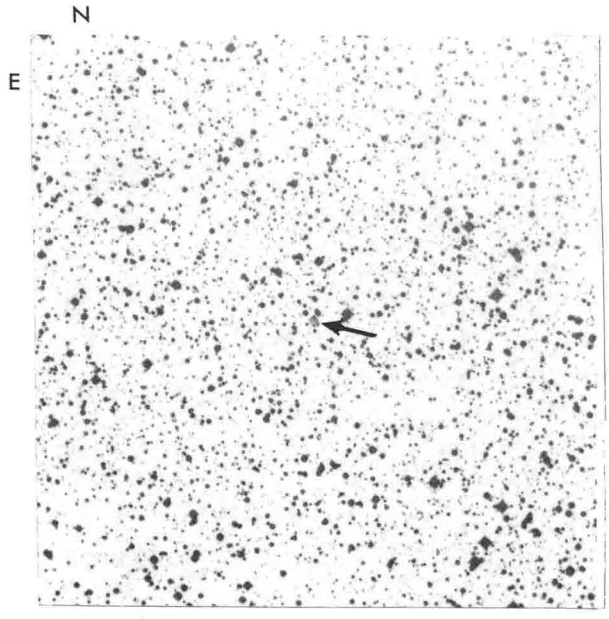
325.8+04.5 He 2-128 SRC J 224



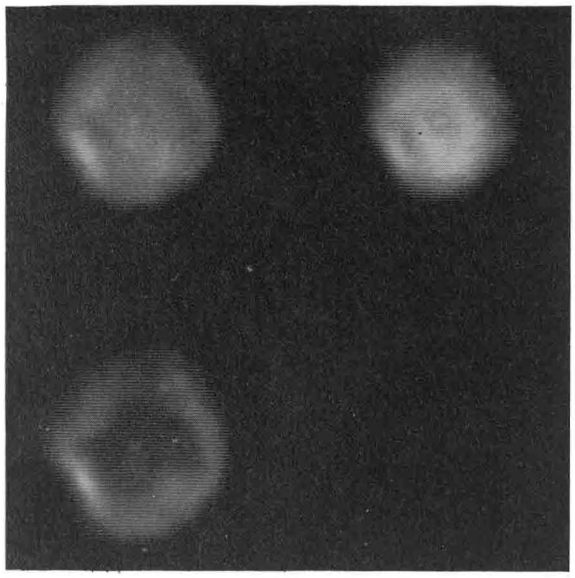
325.8-12.8 He 2-182 SRC J 101



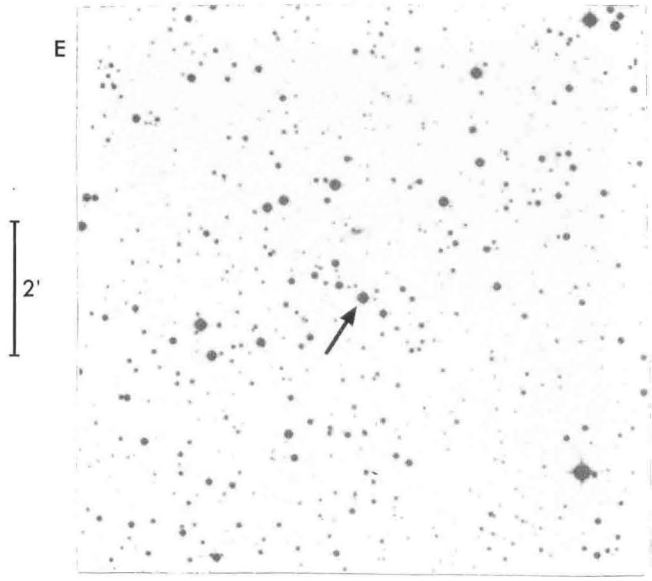
326.0-06.5 He 2-151 SRC J 137



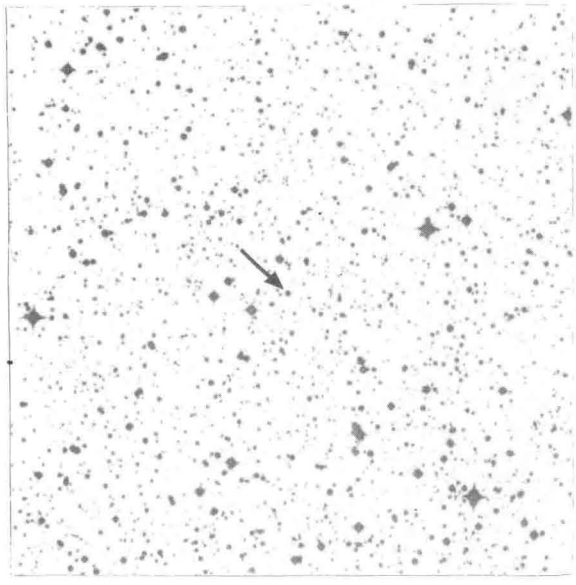
326.1-01.9 VBe 3 SRC J 178



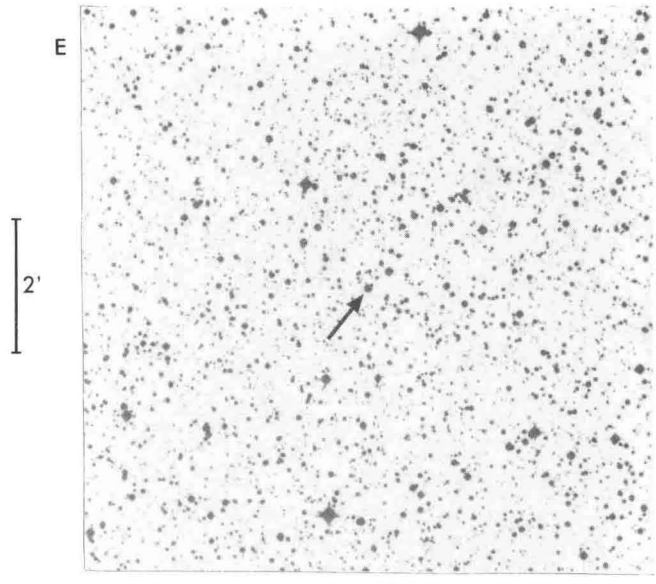
326.7+42.2 IC 972 BALICK **87**



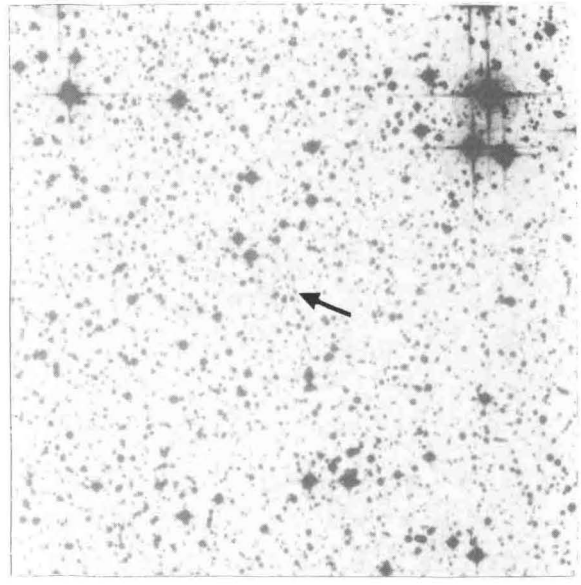
327.5+13.3 He 2-118 SRC J 273



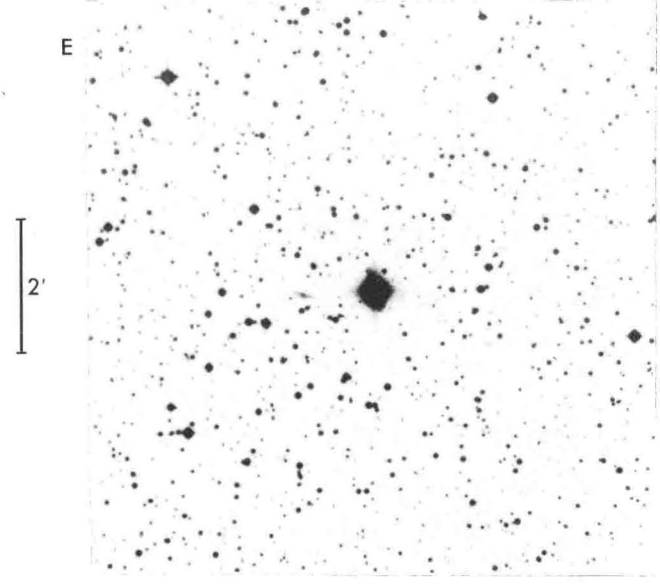
327.1-01.8 He 2-140 SRC J 178



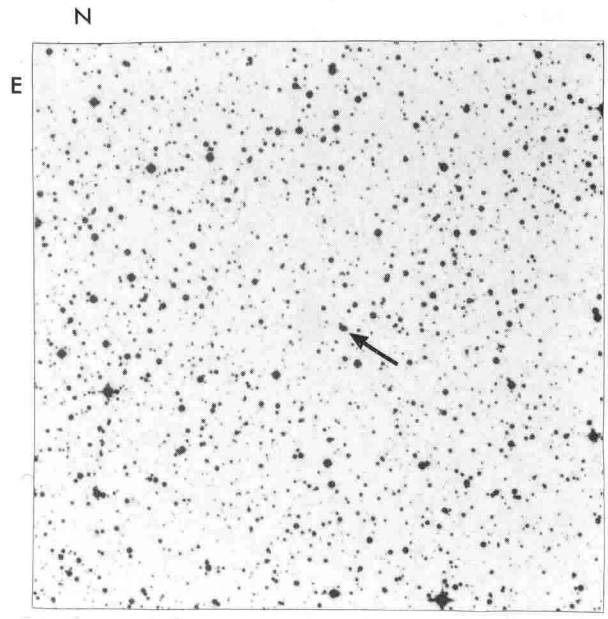
327.1-02.2 He 2-142 SRC J 178



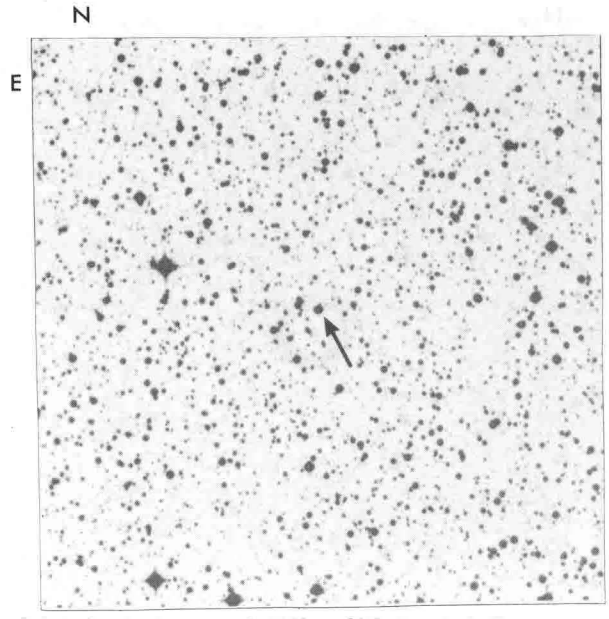
327.7-05.4 KoRe 1 SRC J 137



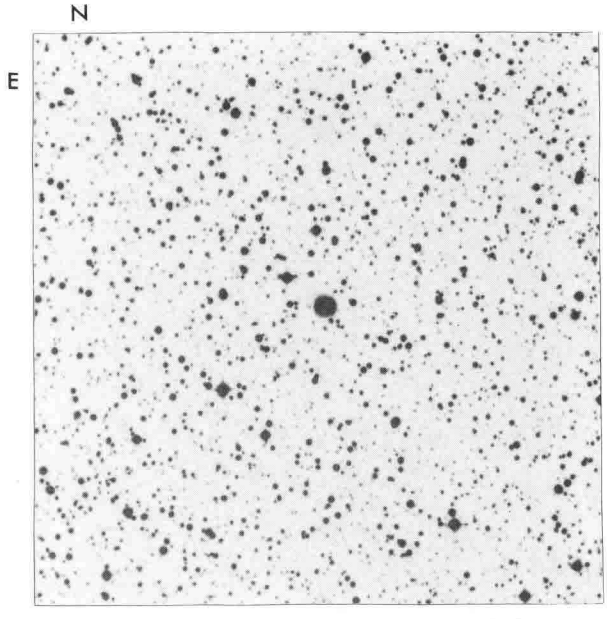
327.8+10.0 NGC 5882 SRC J 274



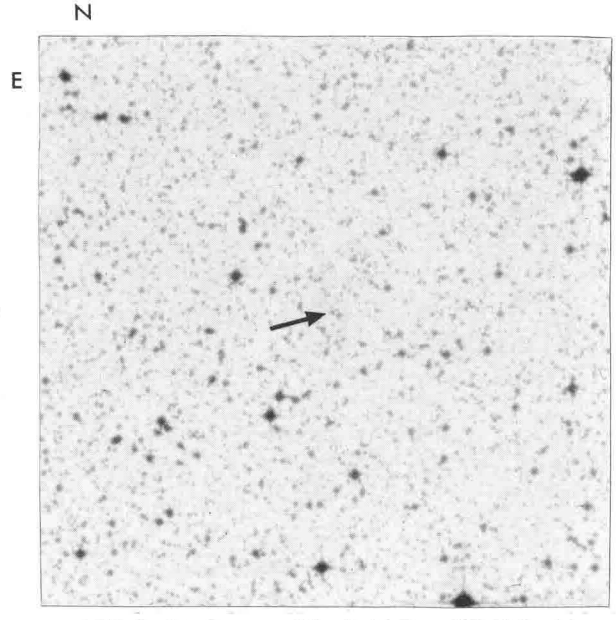
327.8-01.6 He 2-143 SRC J 178



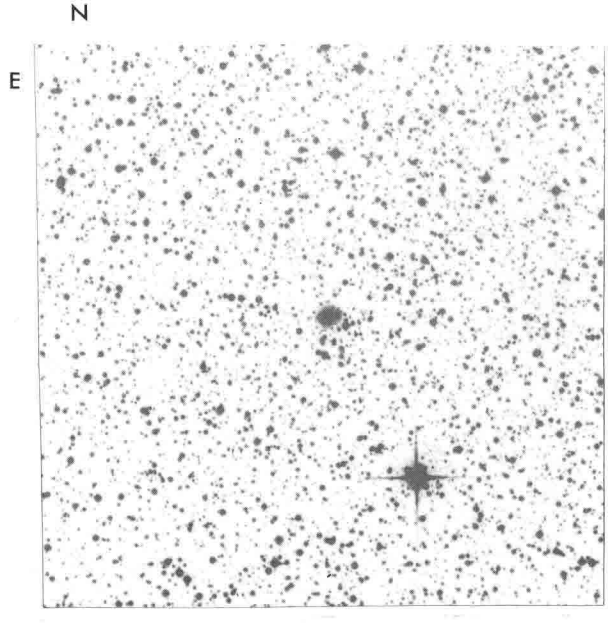
327.8-06.1 He 2-158 SRC J 137



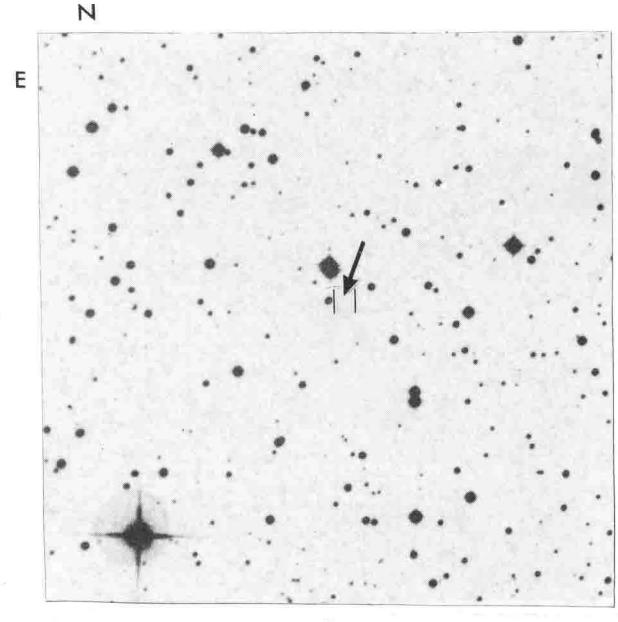
327.8-07.2 He 2-163 SRC J 137



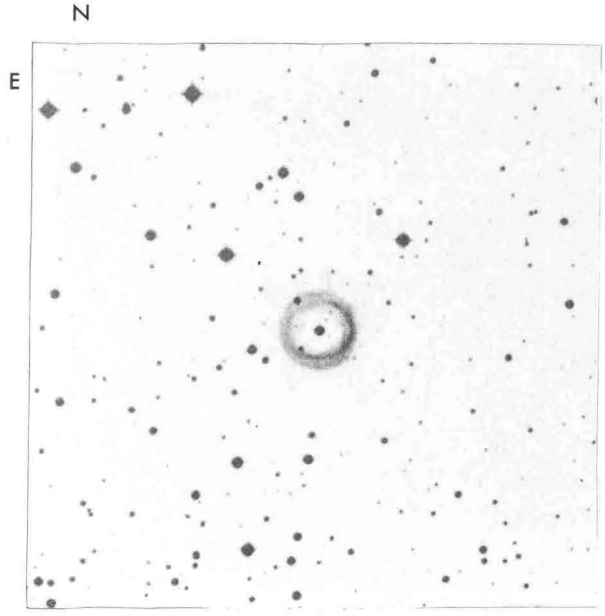
327.9-04.3 He 2-147 SRC J 178



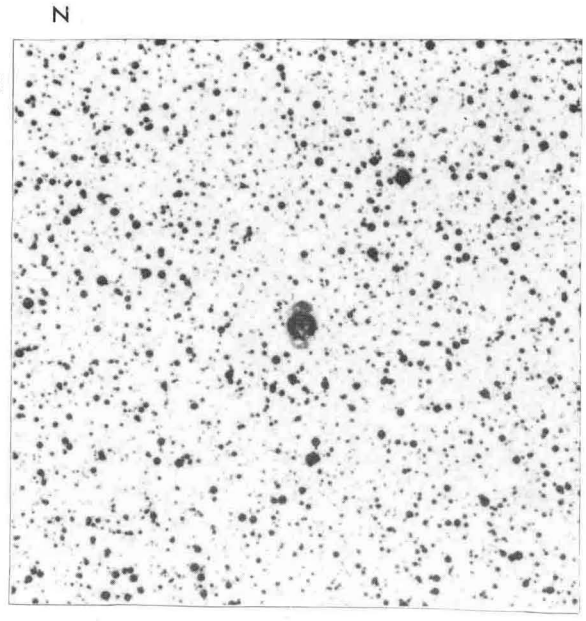
328.9-02.4 He 2- 146 SRC J 178



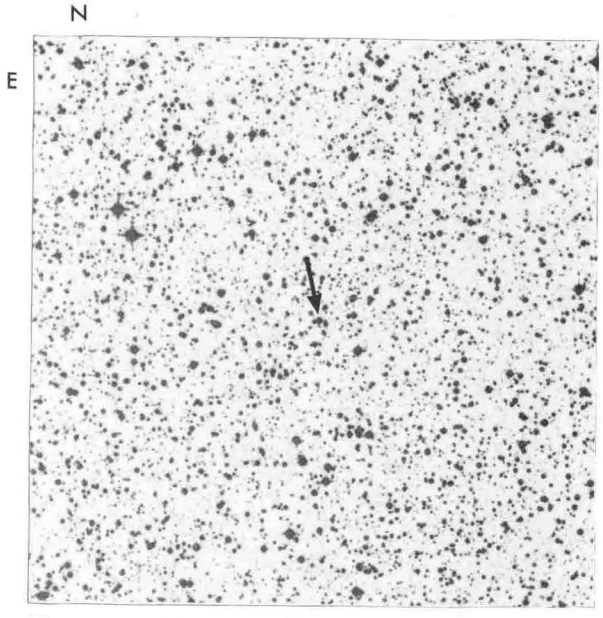
328.2+01.3 Lo 10 SRC J 225



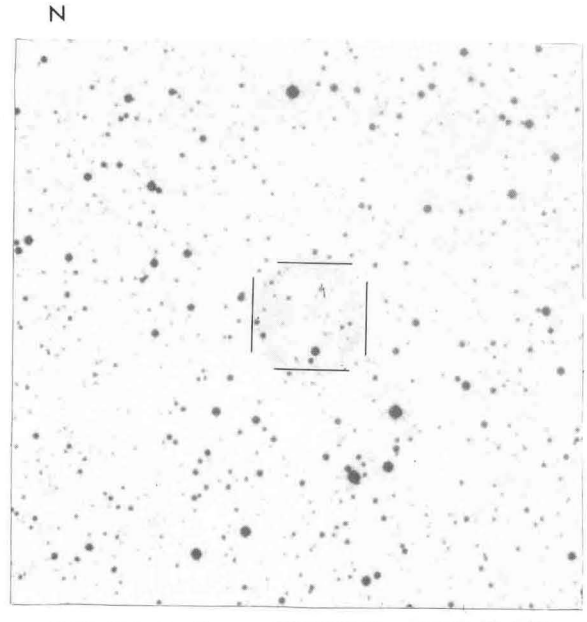
329.0+01.9 Sp 1 SRC J 225



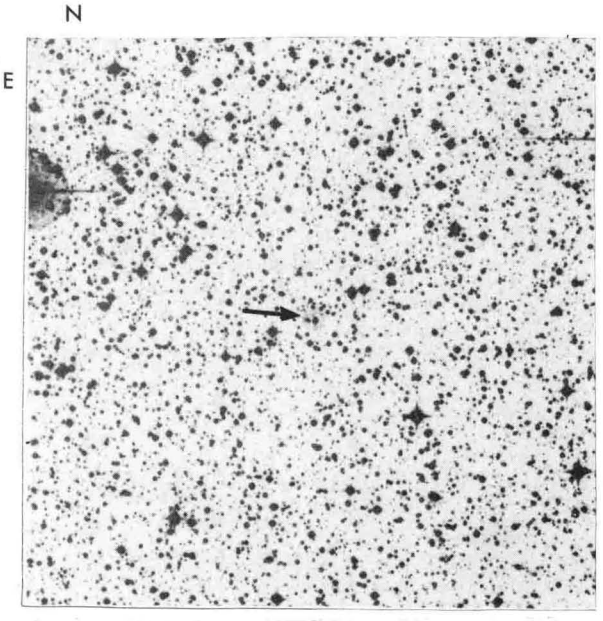
329.3-02.8 Mz 2 ESO R 178



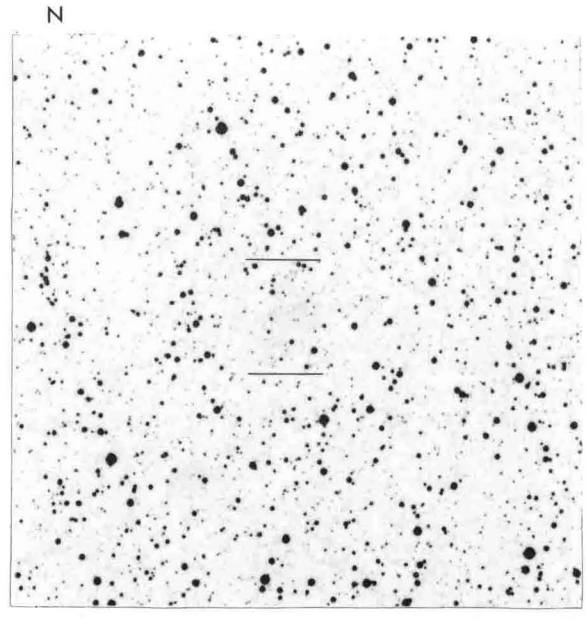
329.4-02.7 He 2-149 SRC J 178



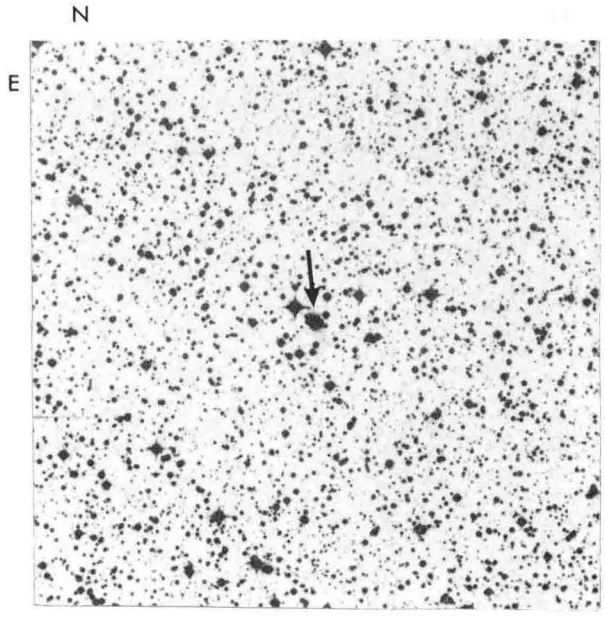
329.5+01.7 VBRC 7 ESO R 225



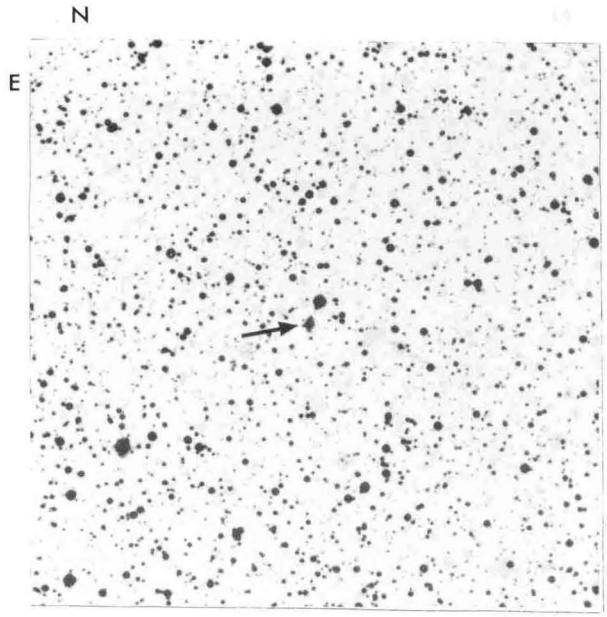
329.5-02.2 Wray 17-75 SRC J 178



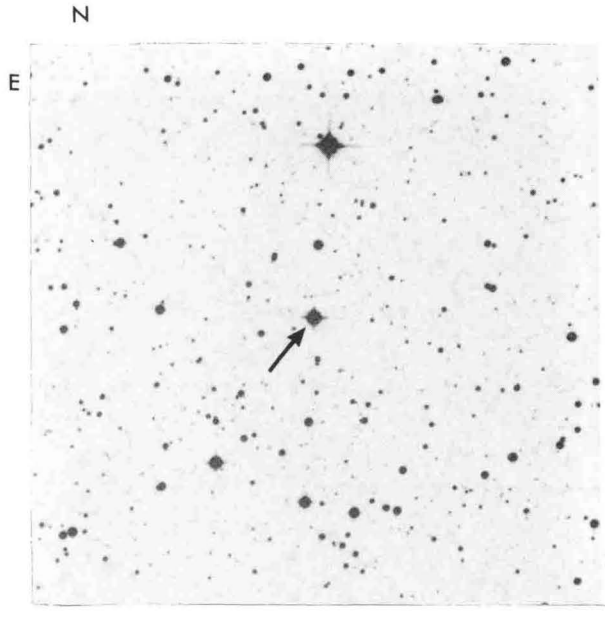
330.2+05.9 Lo 9 ESO R 224



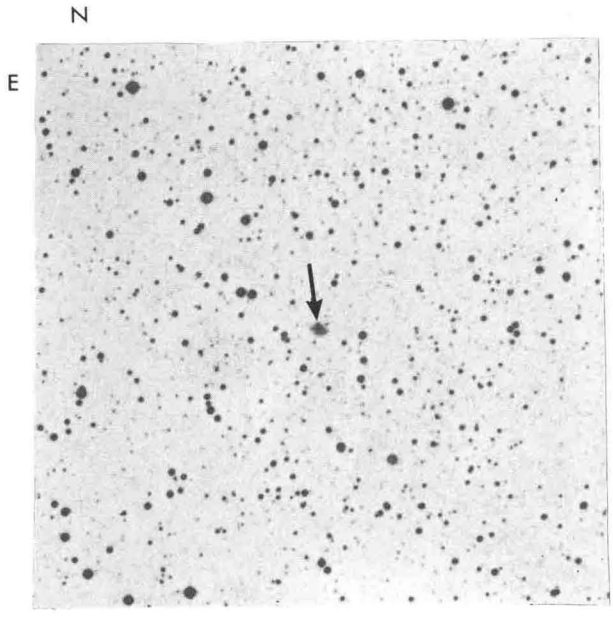
330.6-02.1 He 2-153 SRC J 178



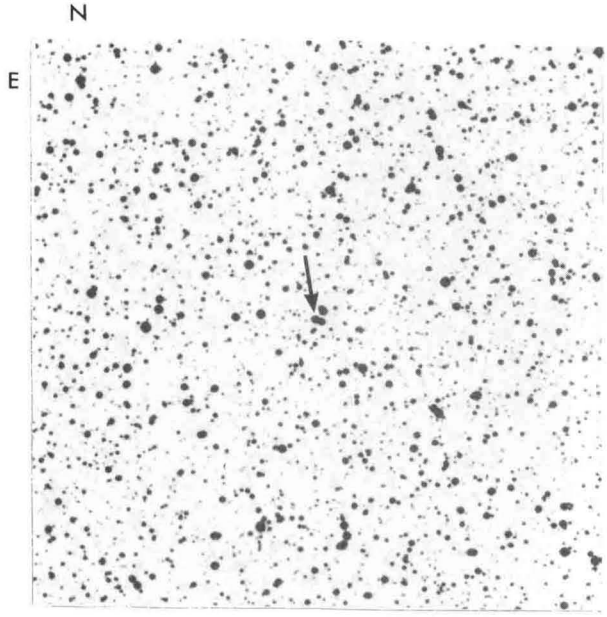
330.6-03.6 He 2-159 ESO R 179



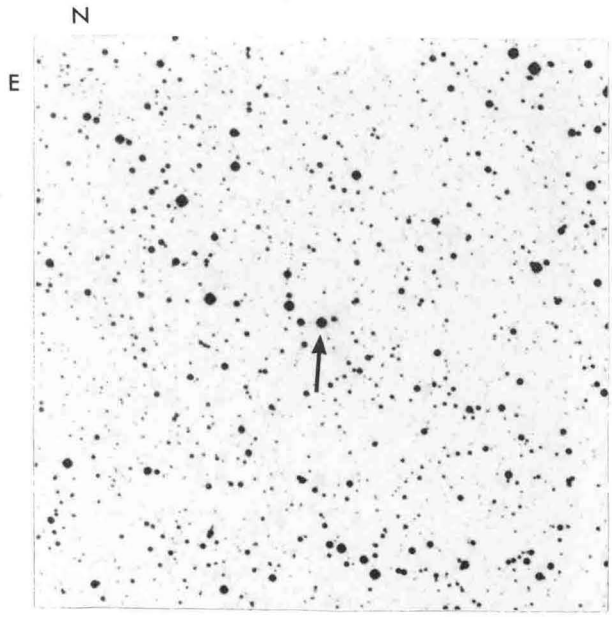
330.7+04.1 Cn 1-1 SRC J 225



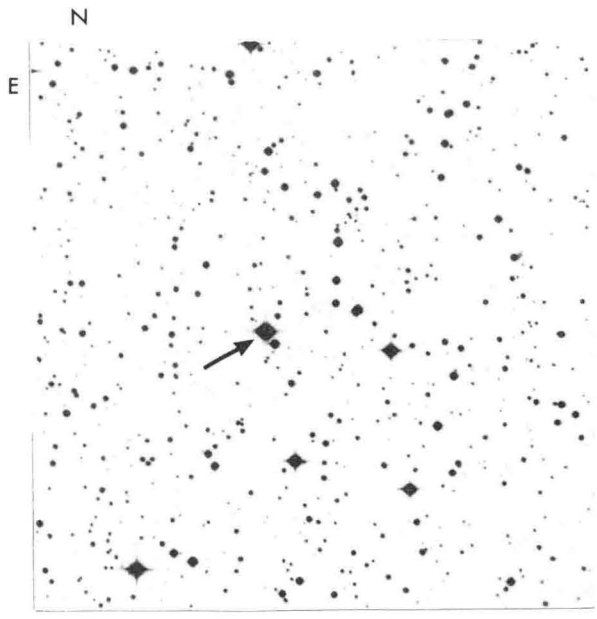
330.9 +04.3 Wray 16- 189 SRC J 225



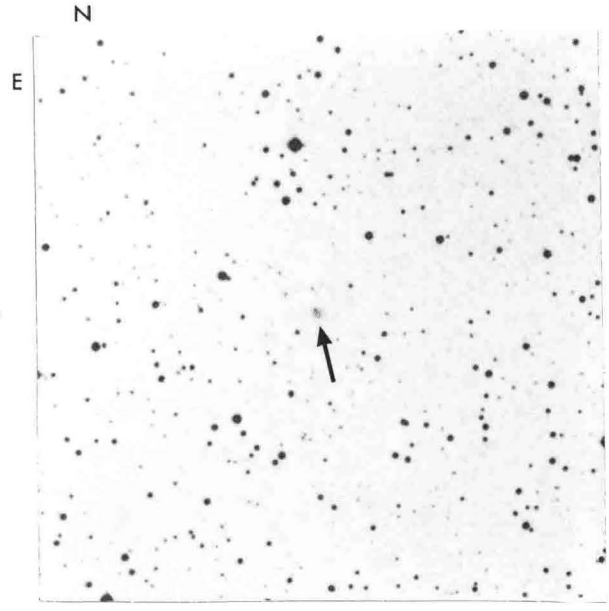
331.0-02.7 He 2-157 ESO R 179



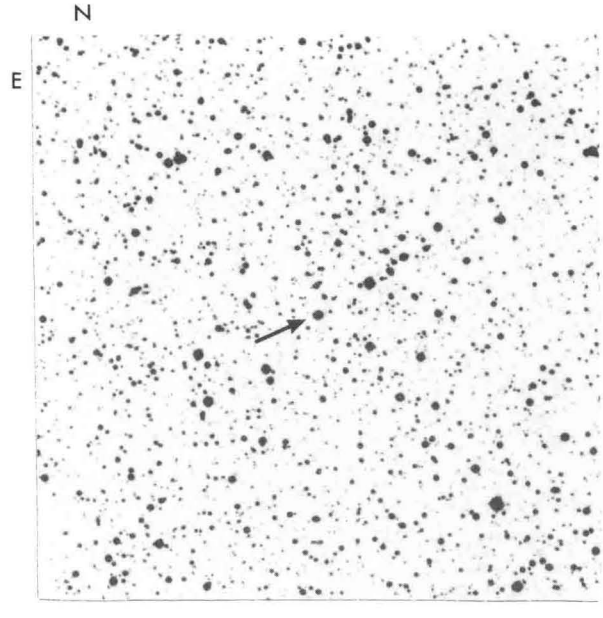
331.1-05.7 PC 11 ESO R 179



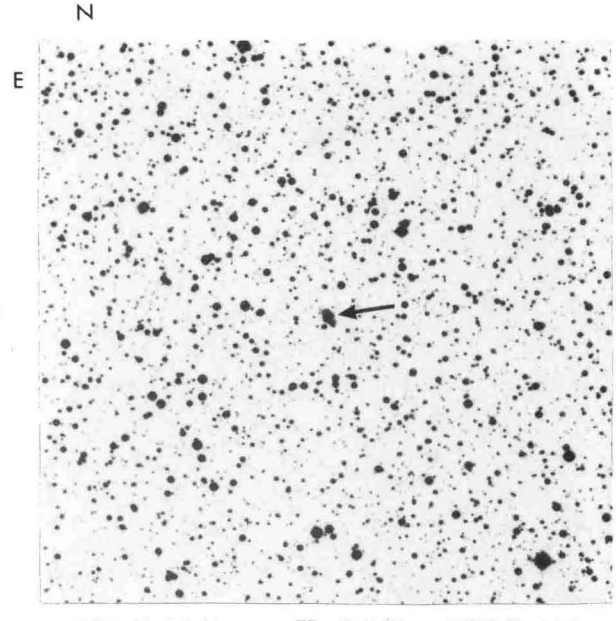
331.3+16.8 NGC 5873 ESO B 328



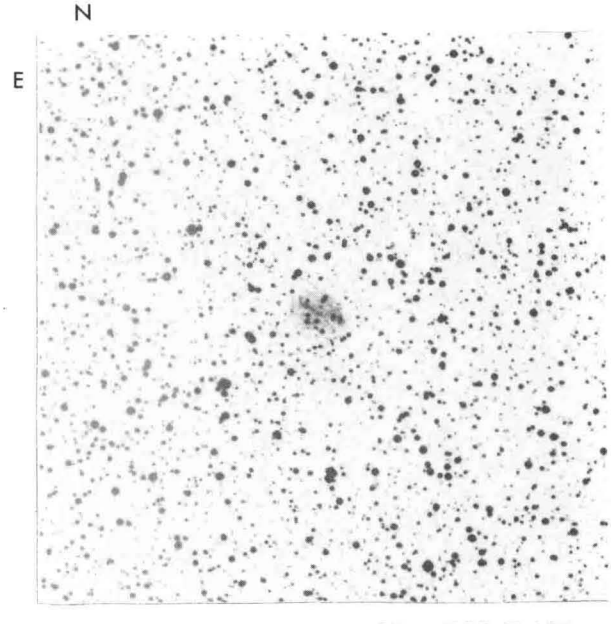
331.4+00.5 He 2-145 SRC J 225



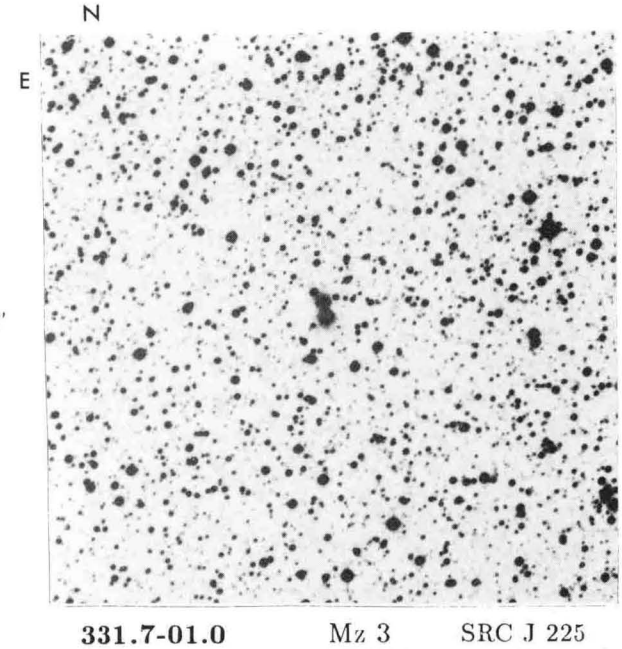
331.4-03.5 He 2-162 ESO R 179



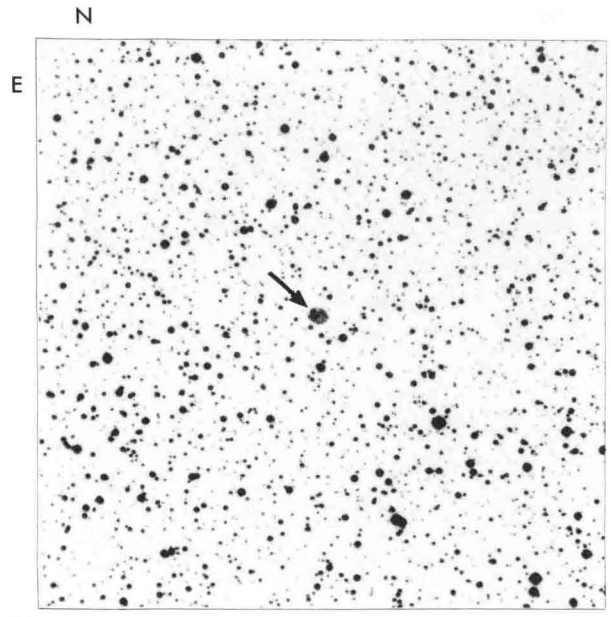
331.5-02.7 He 2-161 ESO R 179



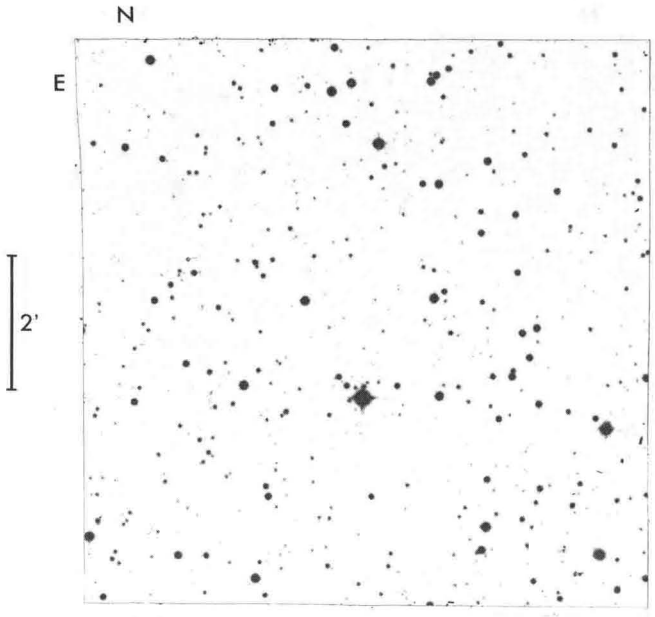
331.5-03.9 He 2-165 ESO R 179



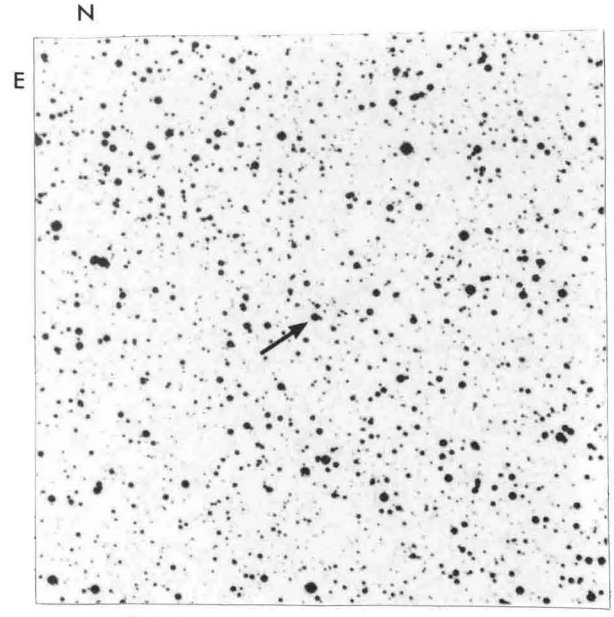
331.7-01.0 Mz 3 SRC J 225



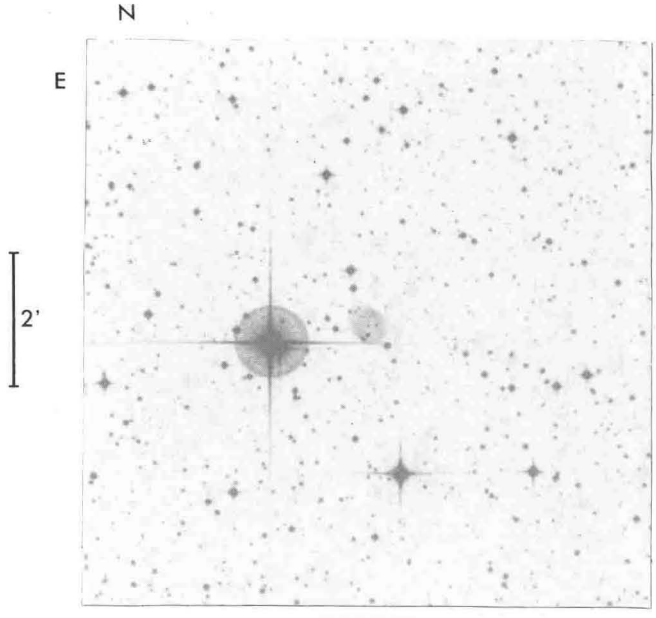
332.0-03.3 He 2-164 ESO B 179



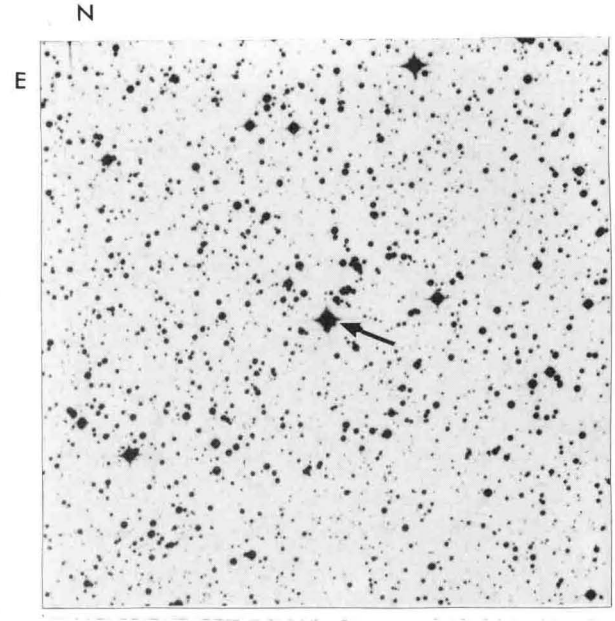
332.2+03.5 Wra 16-199 SRC J 225
(no ident.)



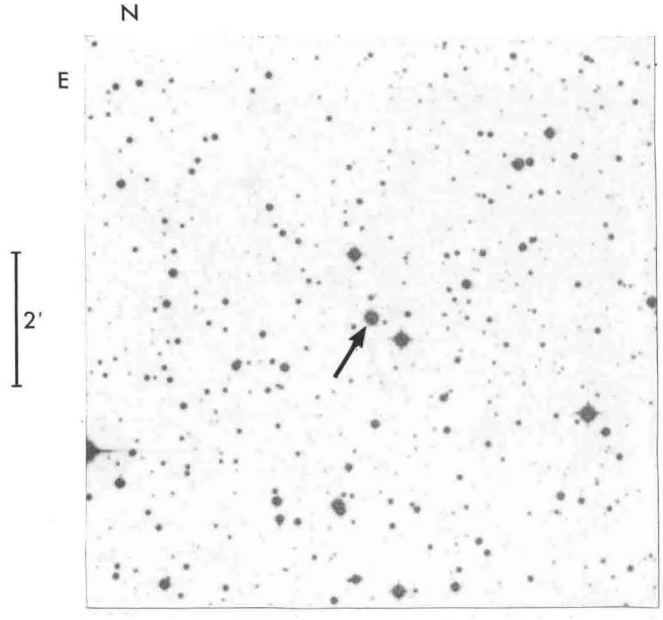
332.3-04.2 He 2-170 ESO R 179



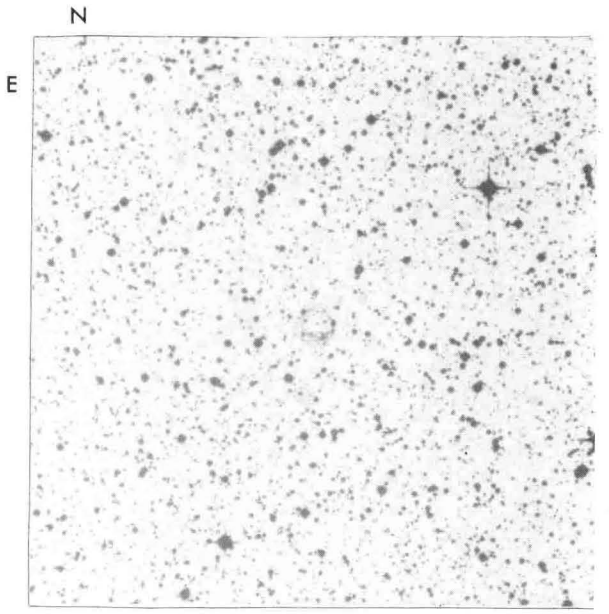
332.5-16.9 HaTr 6 SRC J 139



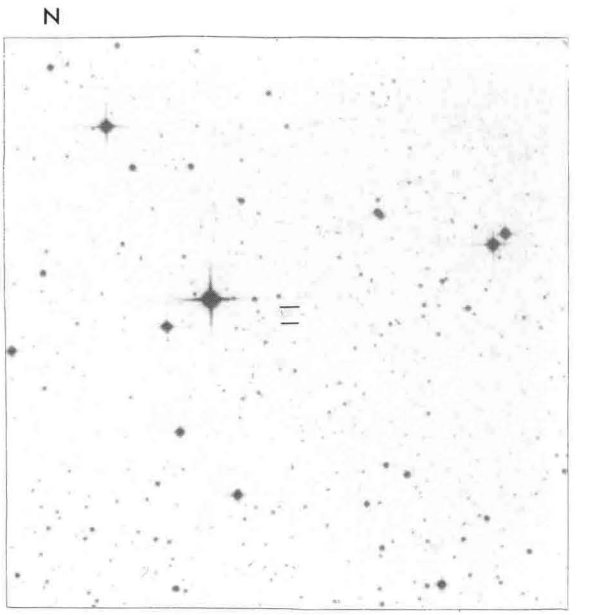
332.9-09.9 He 3-1333 SRC J 180



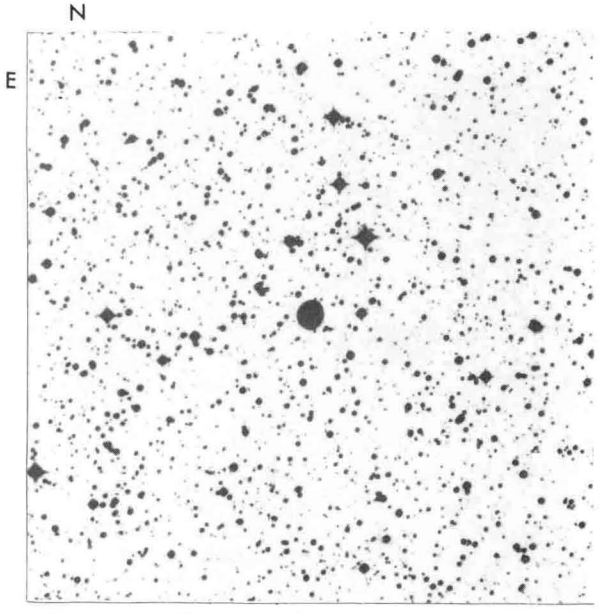
333.4+01.1 He 2-152 SRC J 225



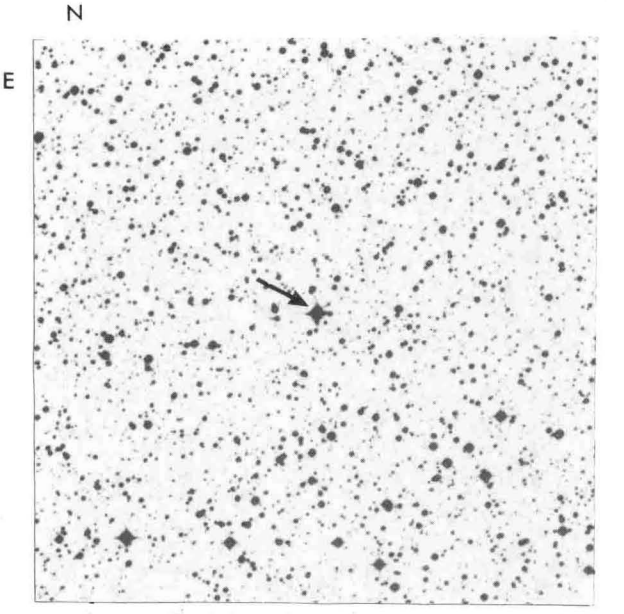
333.4-04.0 HaTr 3 SRC J 226



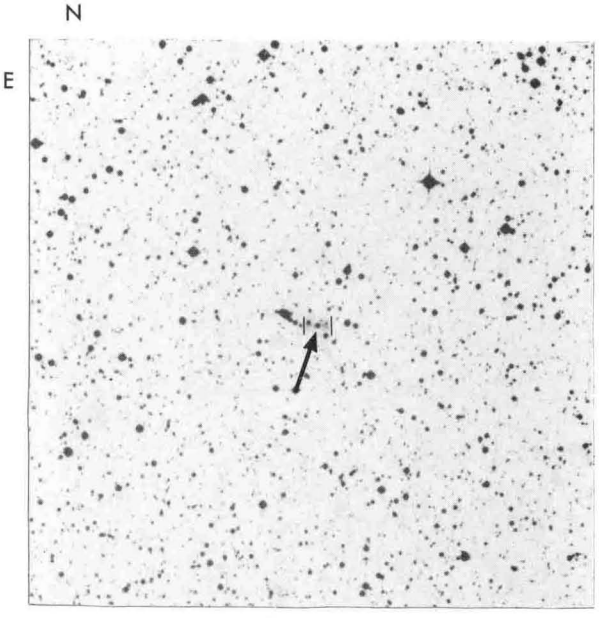
334.3-01.4 MeWe 1- 6 ESO R 226



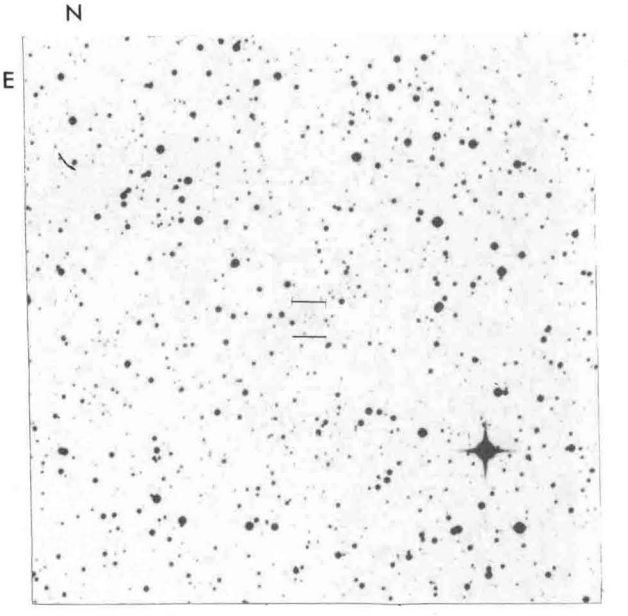
334.3-09.3 IC 4642 SRC J 180



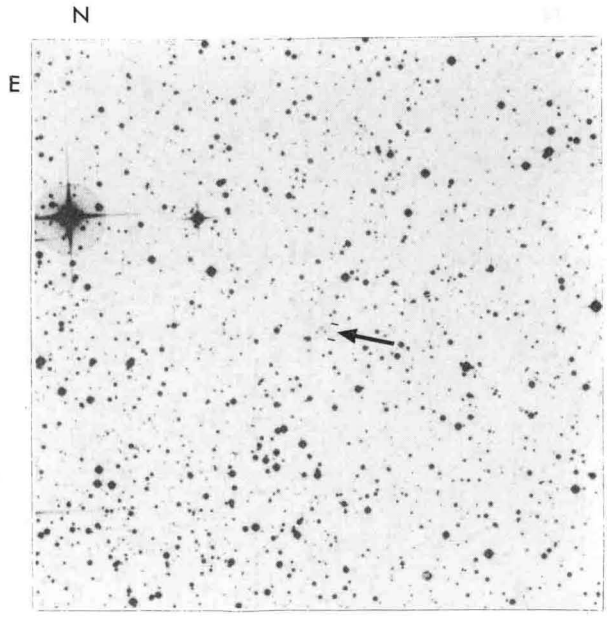
334.8-07.4 SaSt 2-12 SRC J 180



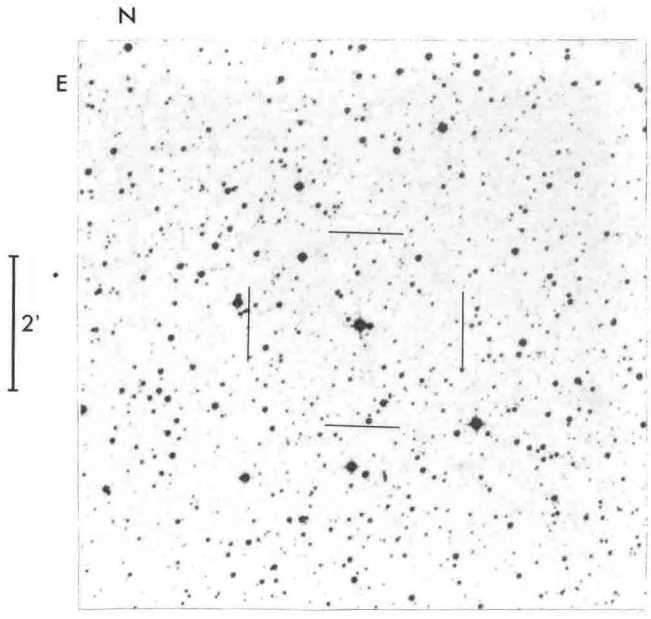
335.2-03.6 HaTr 4 SRC J 227



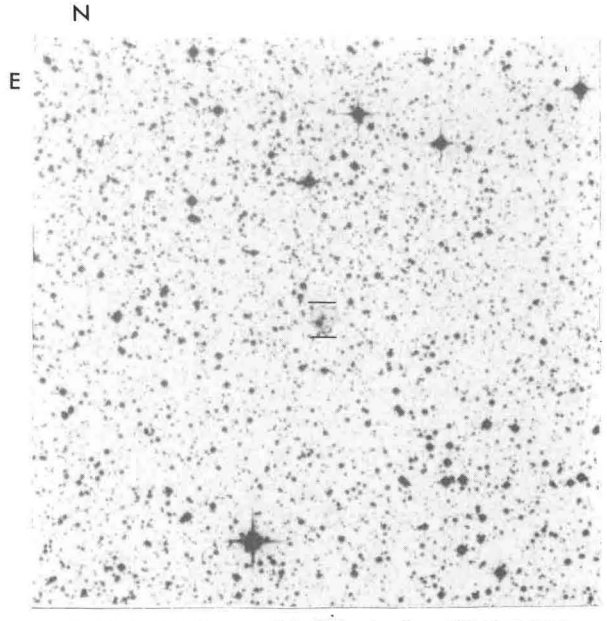
335.4+09.2 ESO 330-02 SRC J 130



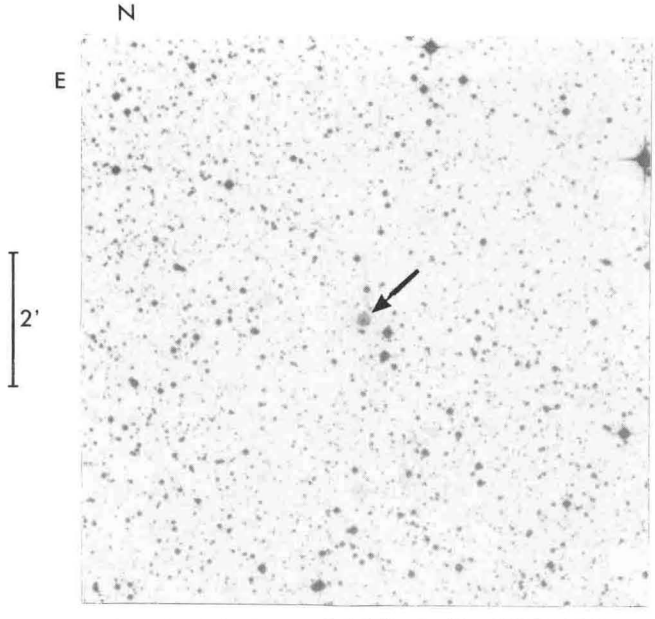
335.4-01.1 He 2- 169 SRC J 226



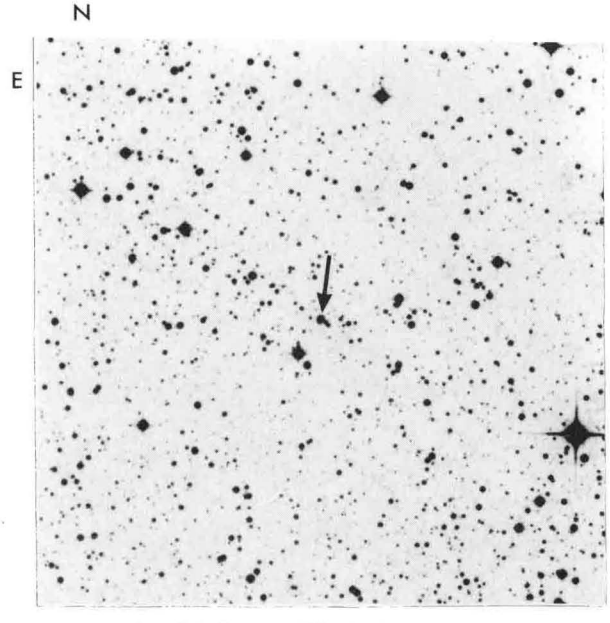
335.5+12.4 DS 2 SRC J 329



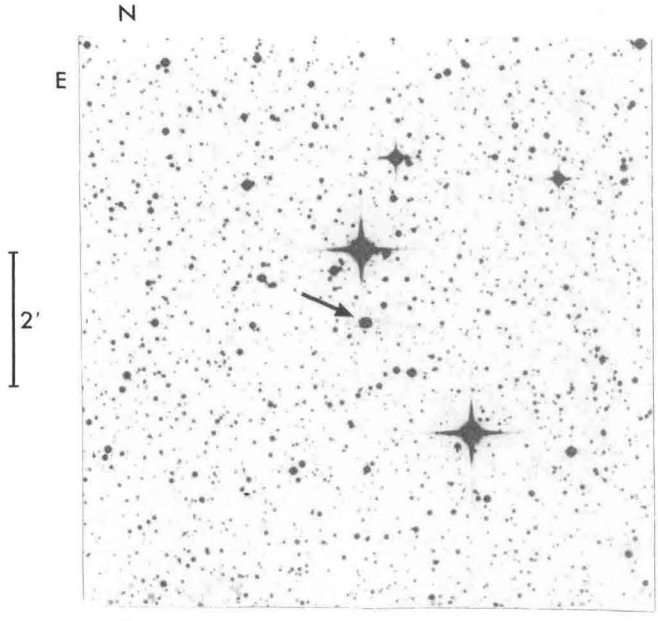
335.6-04.0 MeWe 1- 8 SRC J 226



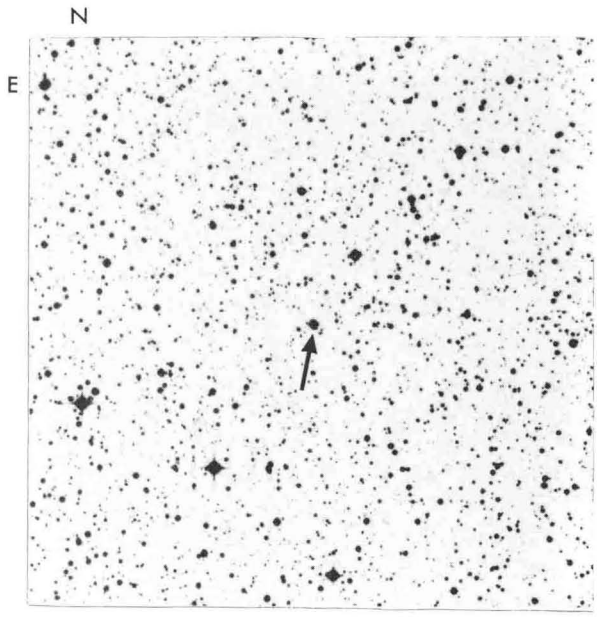
335.9-03.6 MeWe 1- 7 SRC J 226



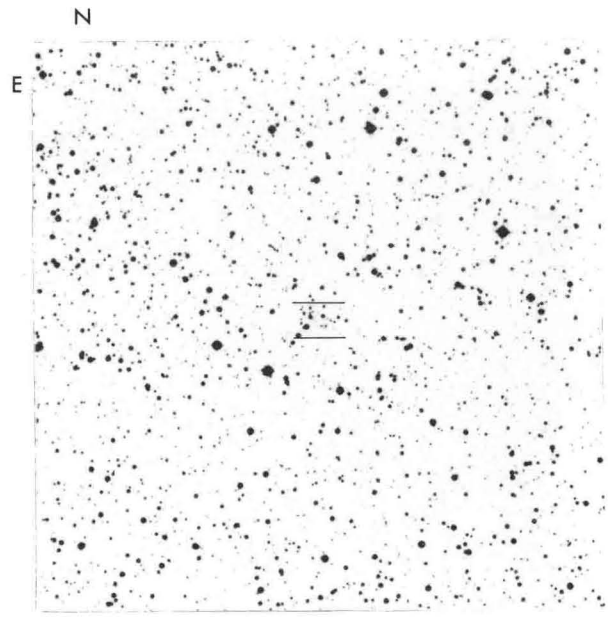
336.2+01.9 Pe 1- 6 SRC J 276



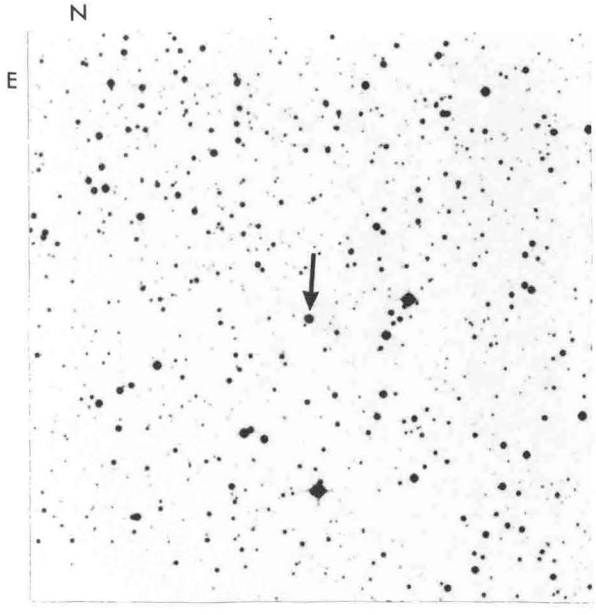
336.2-06.9 PC 14 SRC J 227



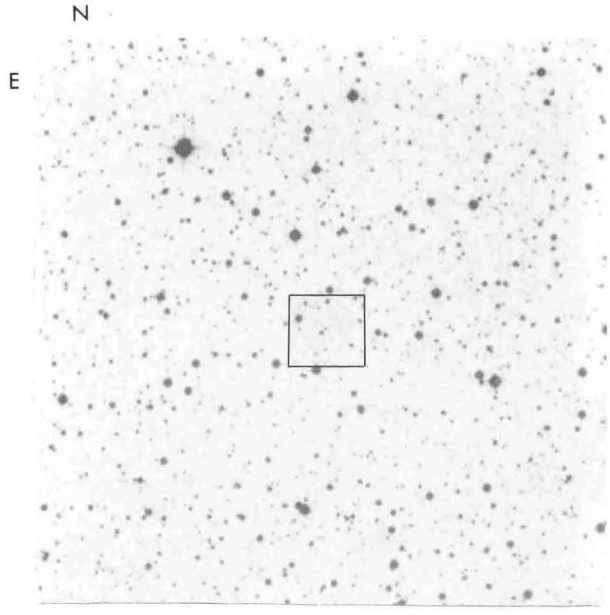
336.3-05.6 He 2-186 SRC J 227



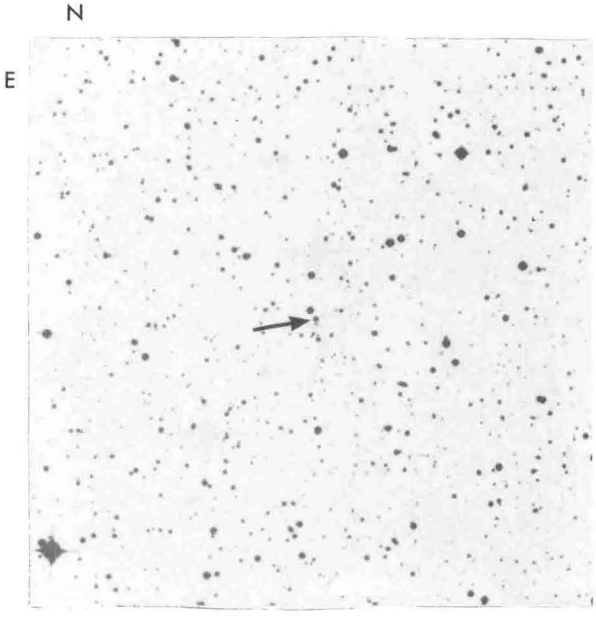
336.8-07.2 K 2-17 SRC J 227



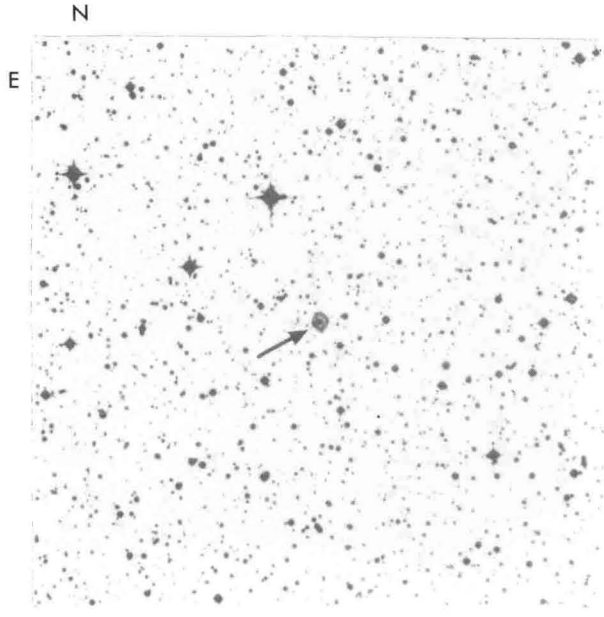
336.9+08.3 StWr 4-10 SRC J 330



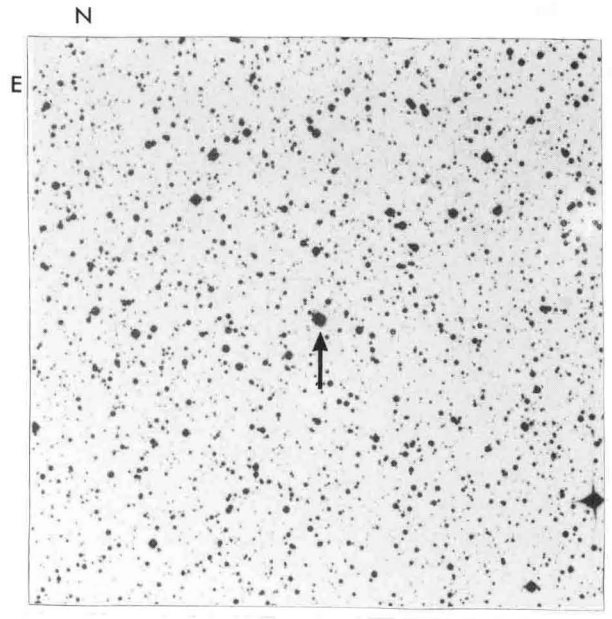
336.9-11.5 MeWe 1-10 ESO R 181



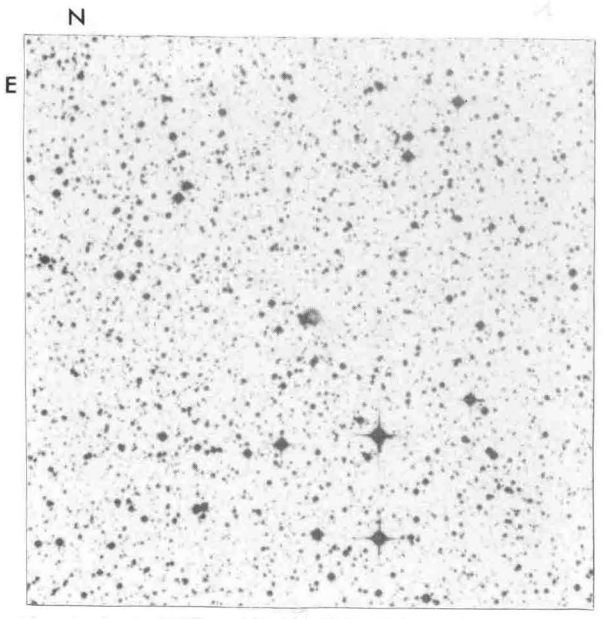
337.4+01.6 Pe 1- 7 SRC J 276



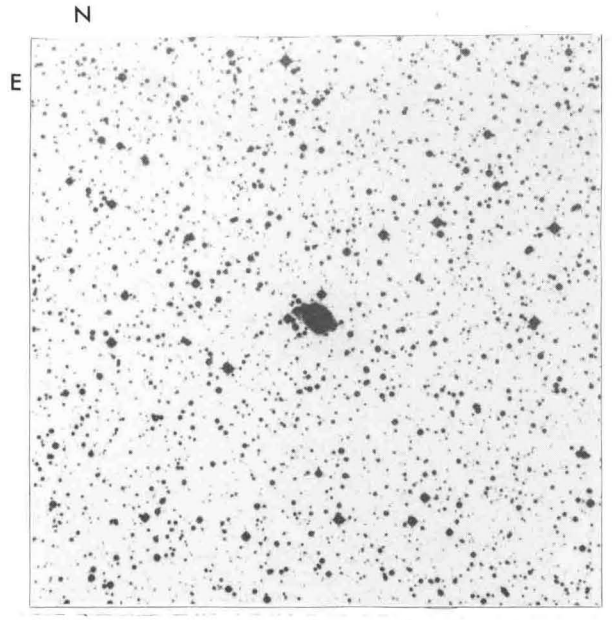
337.4-09.1 Wray 16-266 SRC J 228



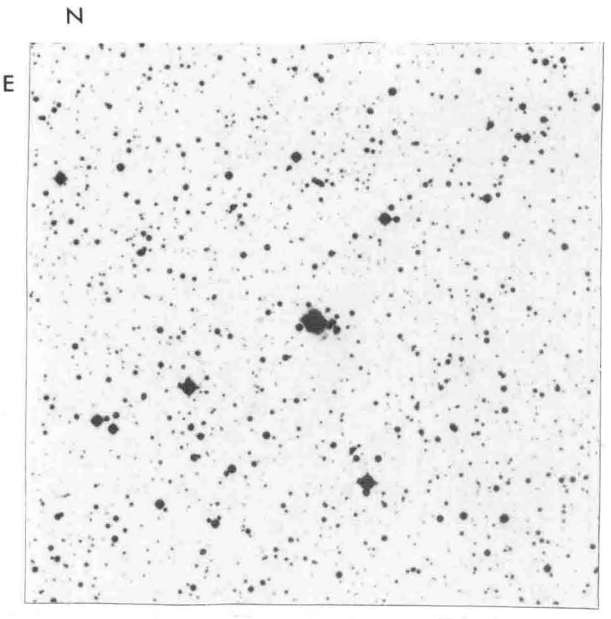
337.5-05.1 He 2-187 SRC J 227



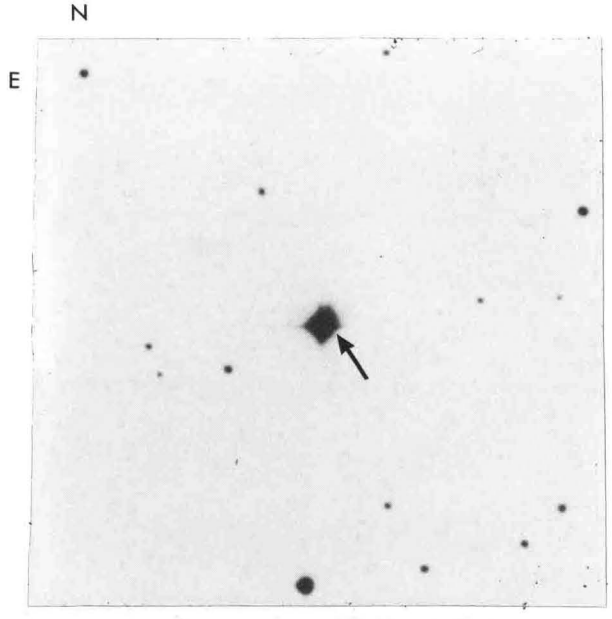
337.6-04.2 MeWe 1- 9 SRC J 227



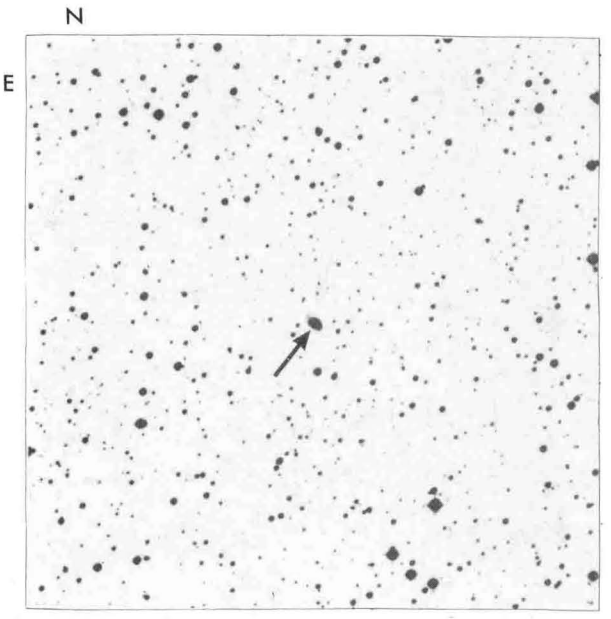
338.1-08.3 NGC 6326 SRC J 228



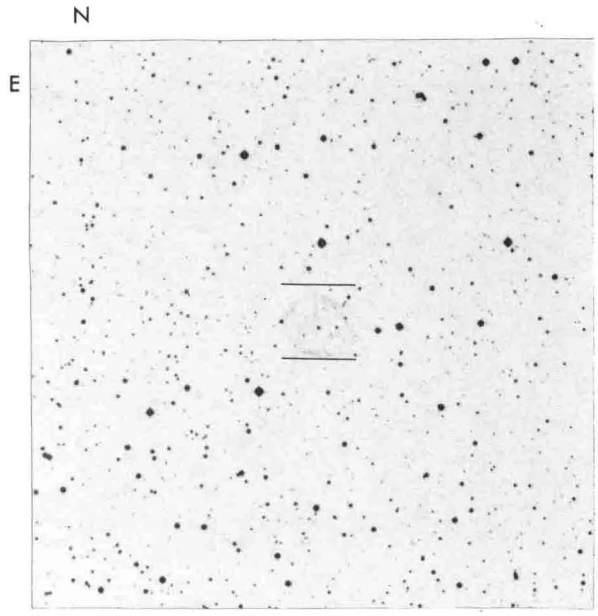
338.8+05.6 He 2- 155 SRC J 276



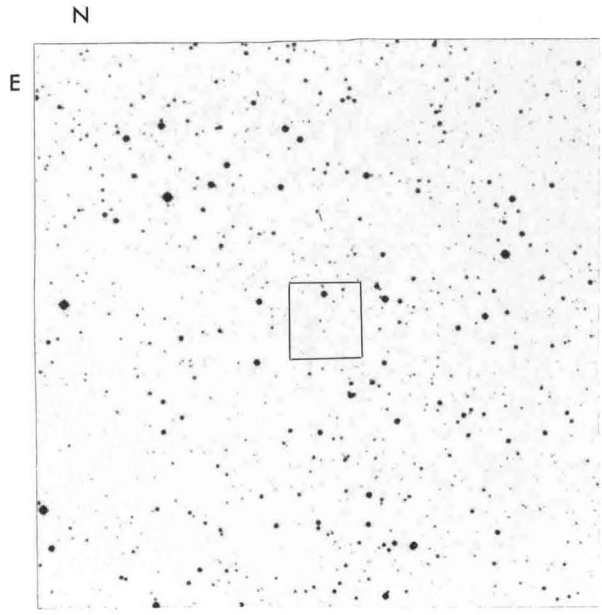
339.9+88.4 LoTr 5 POS E1581



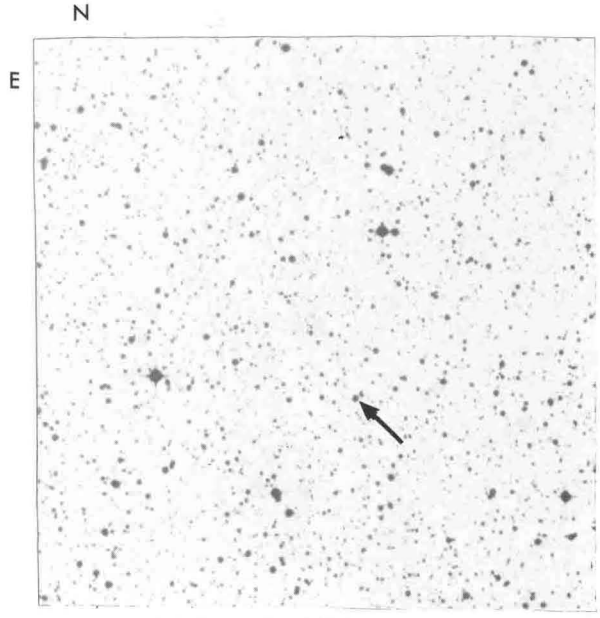
340.4-14.1 Wray 15-1818 SRC J 229



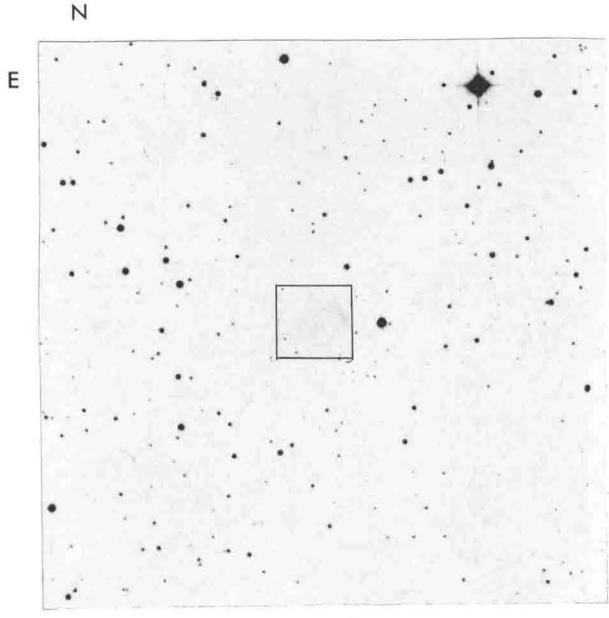
340.8+12.3 Lo 11 SRC J 389



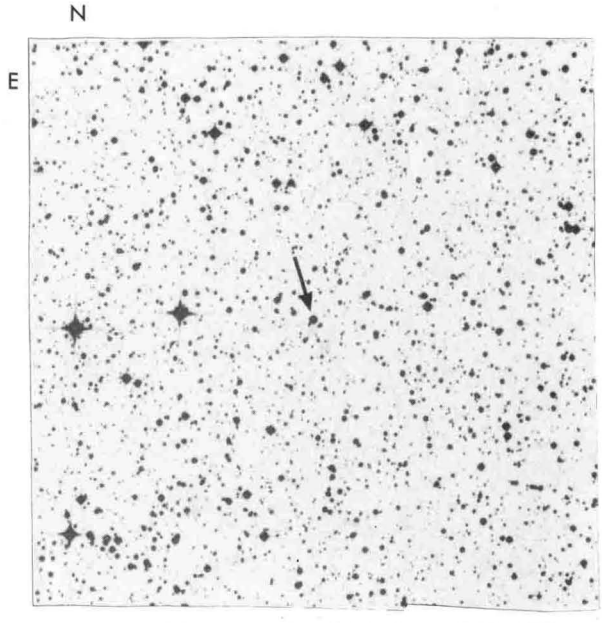
340.8+10.8 Lo 12 SRC J 389



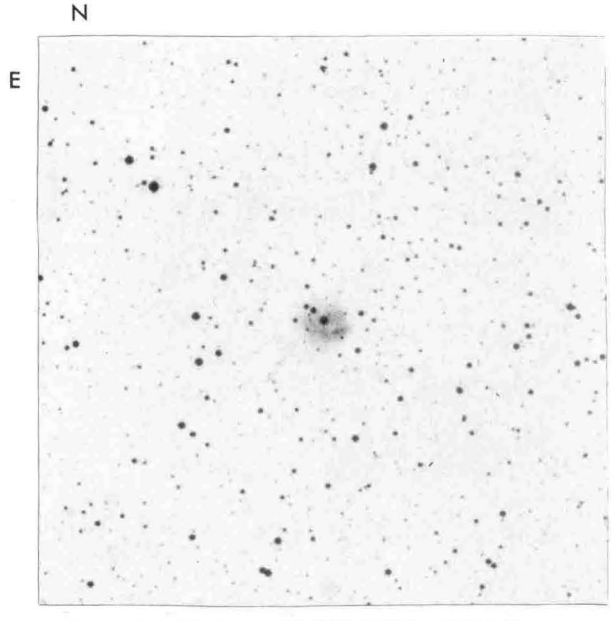
340.9-04.6 Sa 1-5 SRC J 227



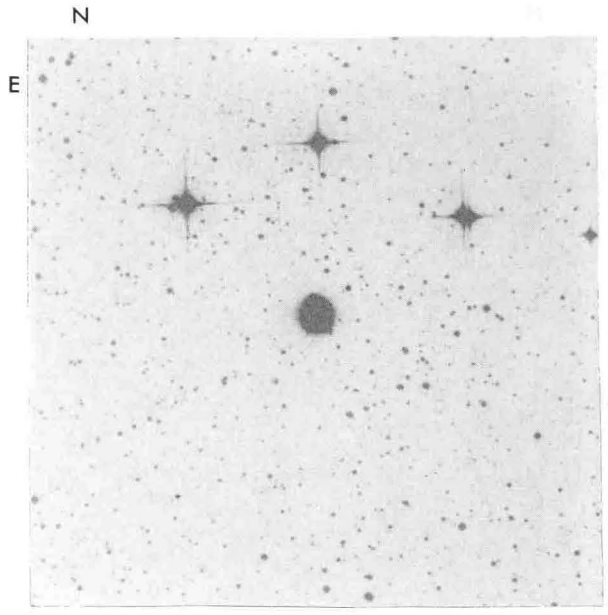
341.2-24.6 Lo 18 ESO R 184



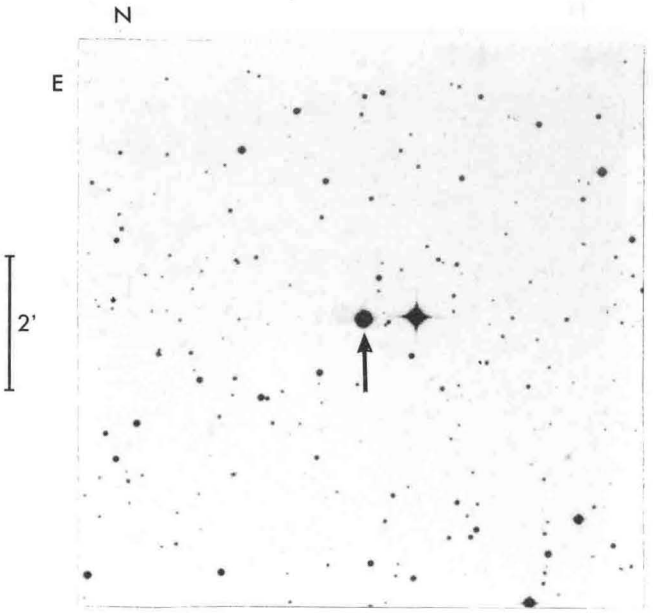
341.5-09.1 He 2-248 SRC J 228



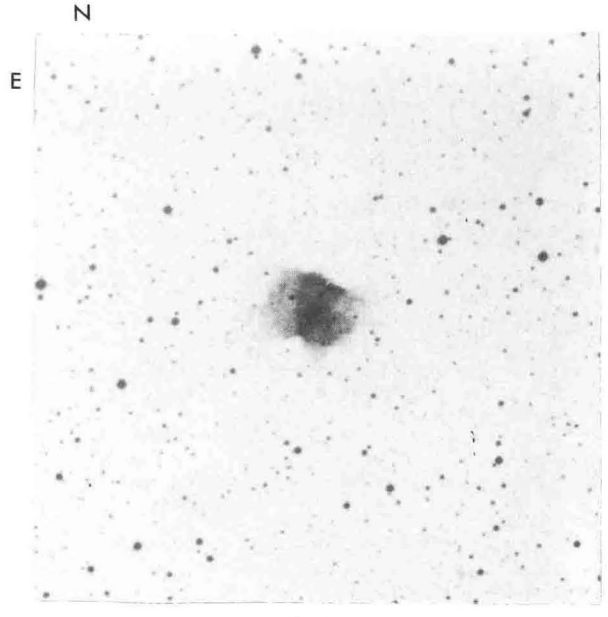
341.6+13.7 NGC 6026 ESO R 389



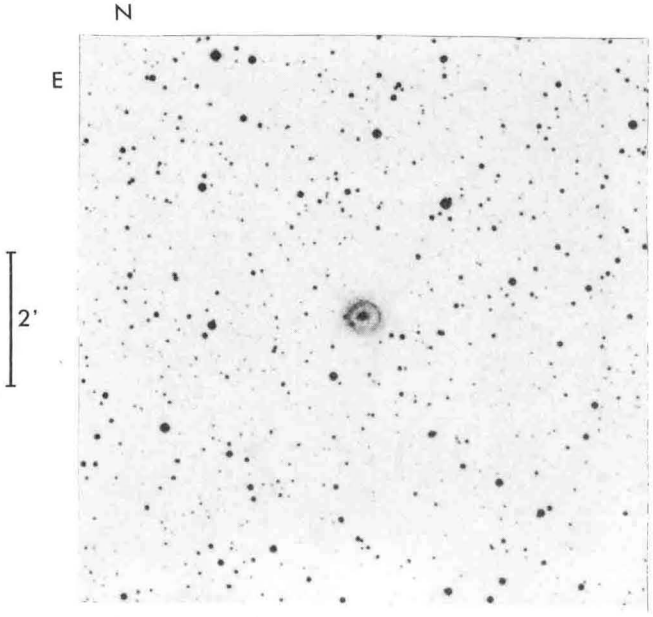
341.8+05.4 NGC 6153 SRC J 331



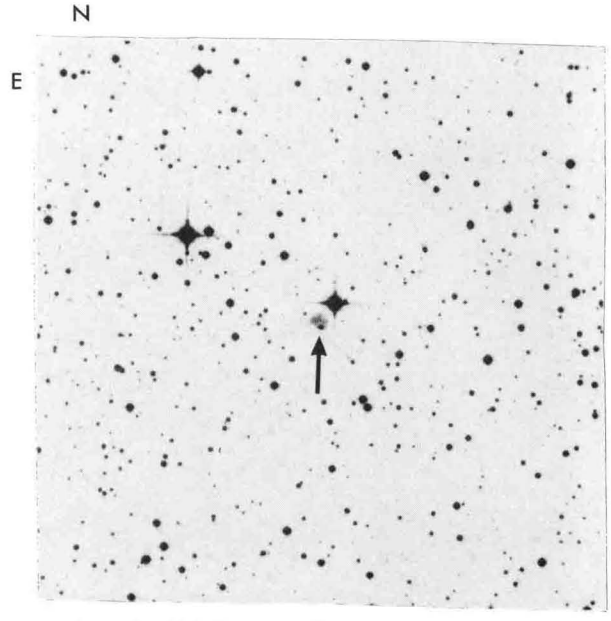
342.1+27.5 Me 2- 1 SRC J 514



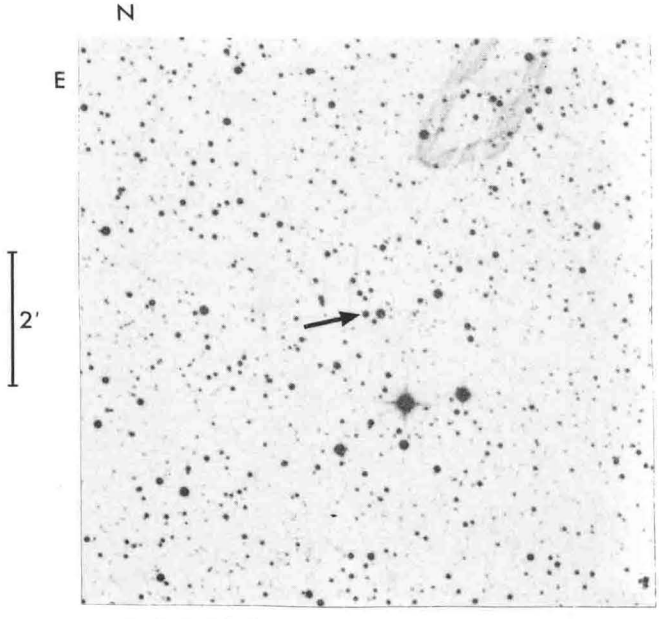
342.1+10.8 NGC 6072 ESO R 389



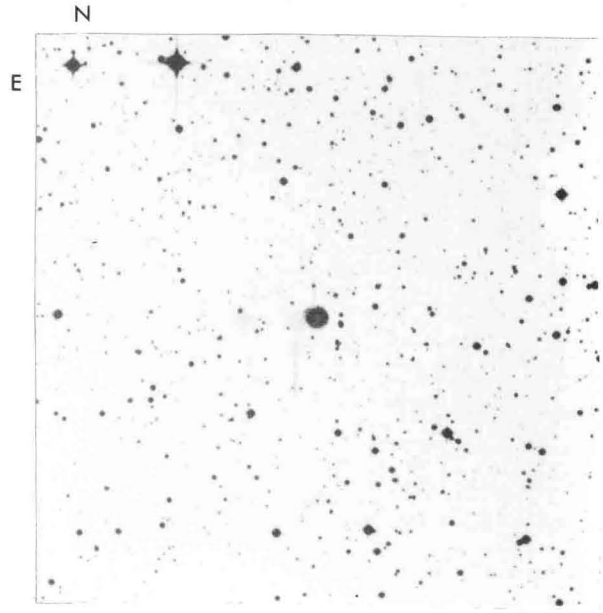
342.5-14.3 Sp 3 ESO B 229



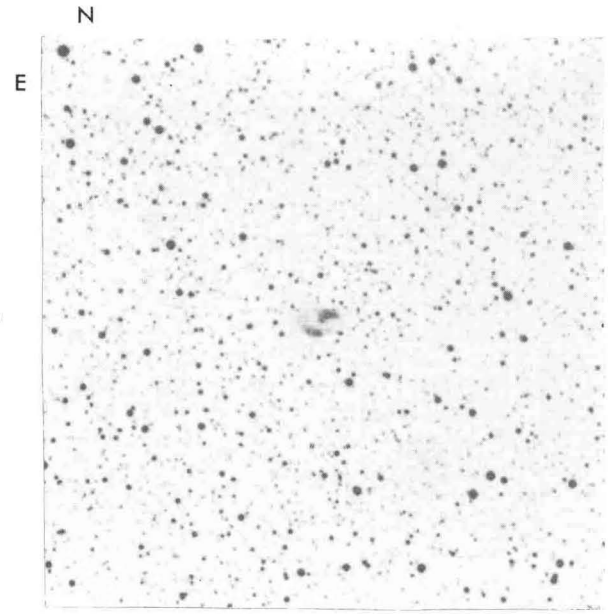
342.7+00.7 H 1- 3 SRC J 277



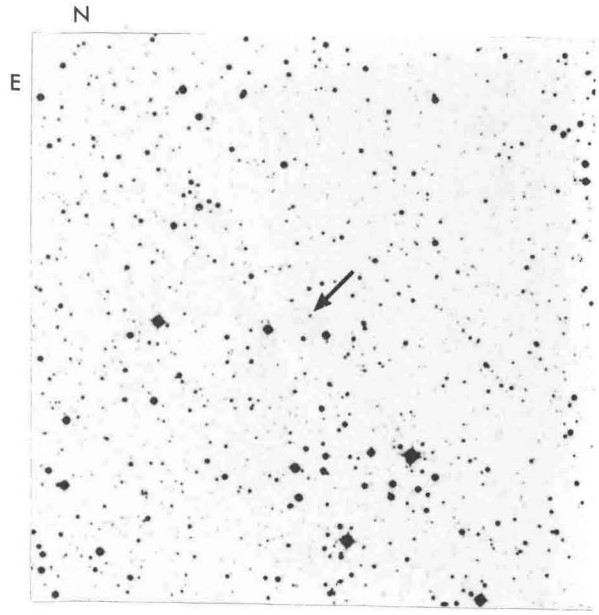
342.8-06.6 Cn 1- 4 ESO B 278



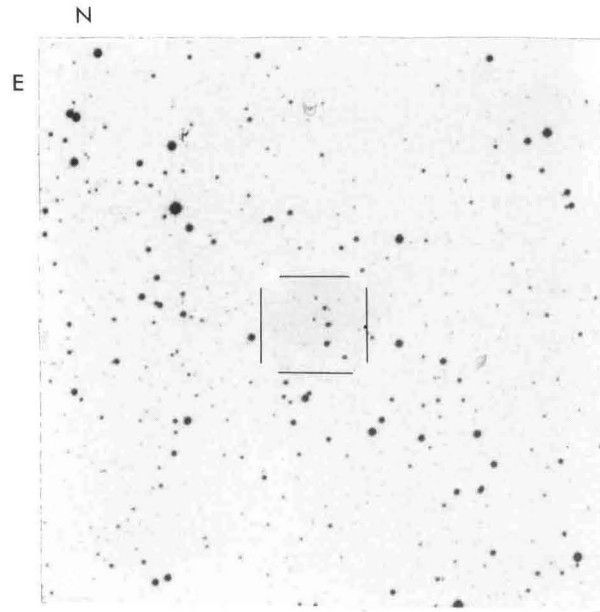
342.9-02.0 Pe 1- 8 ESO B 278



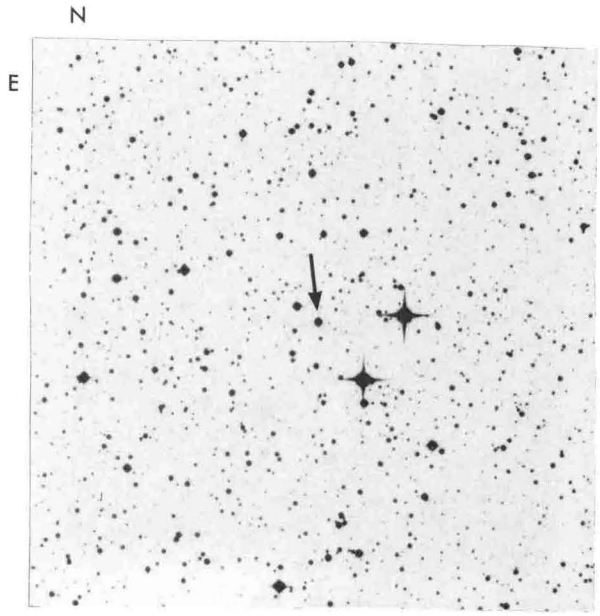
342.9-04.9 He 2-207 ESO B 278



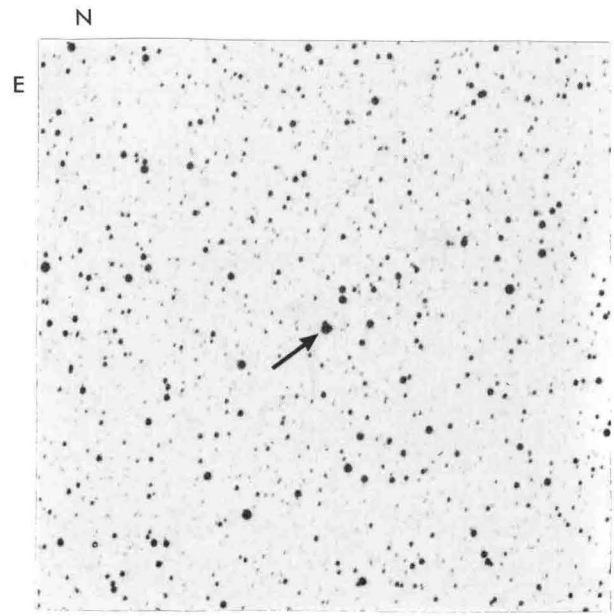
343.0-01.7 Vd 1-9 ESO B 278



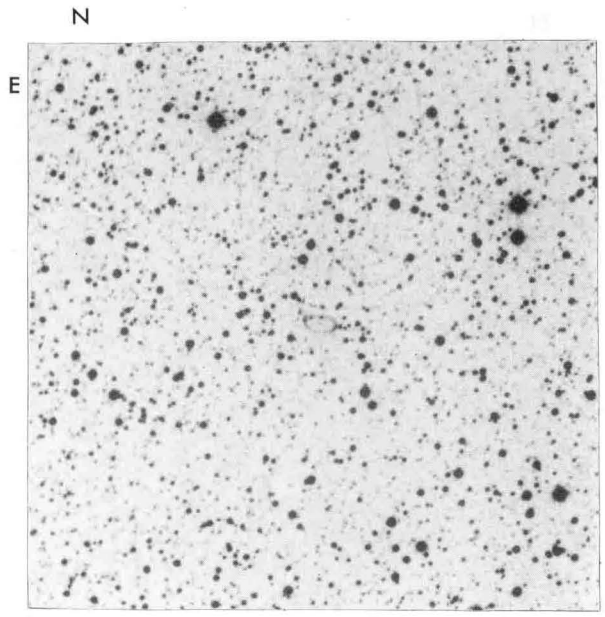
343.3 - 00.6 HaTr 5 ESO R 277



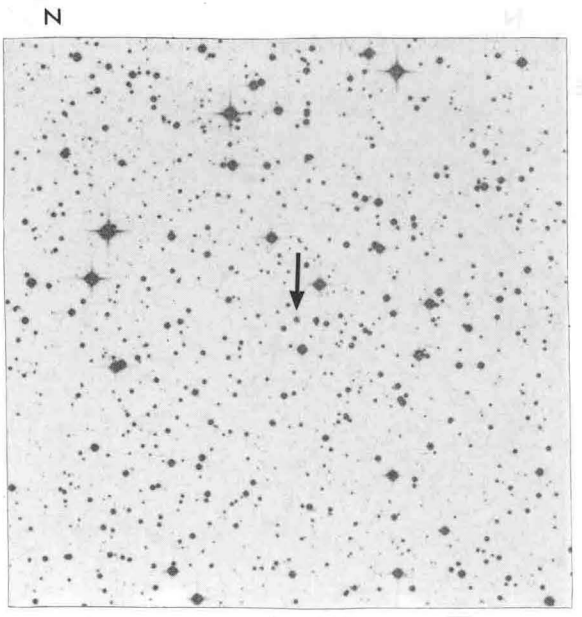
343.4+11.9 H 1- 1 SRC J 389



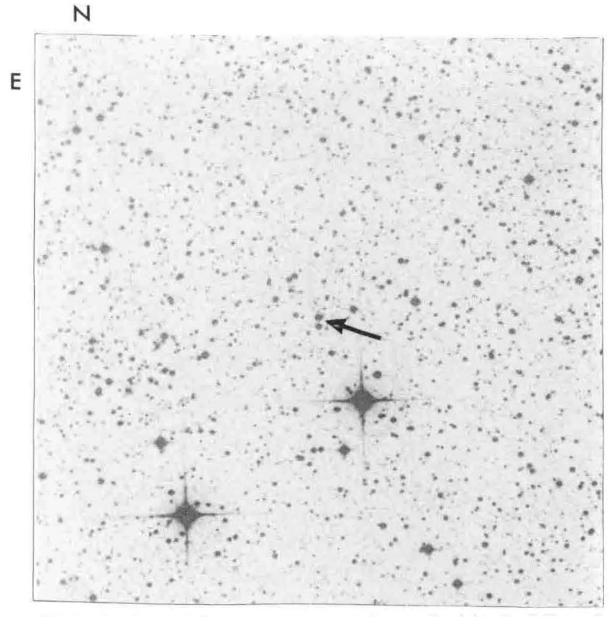
343.5-07.8 PC 17 ESO B 279



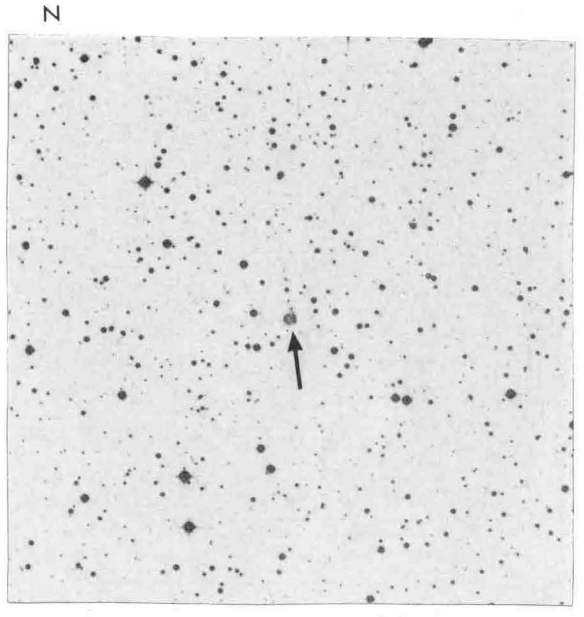
343.6+03.7 SuWt 3 ESO R 331



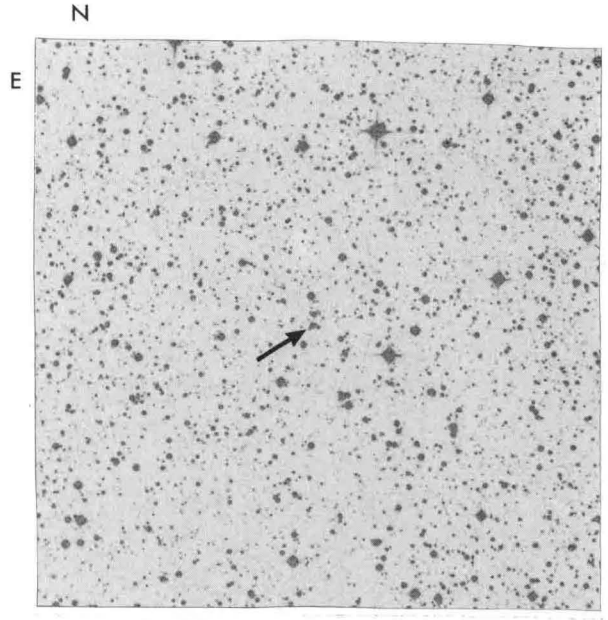
343.9+00.8 H 1- 5 ESO B 332



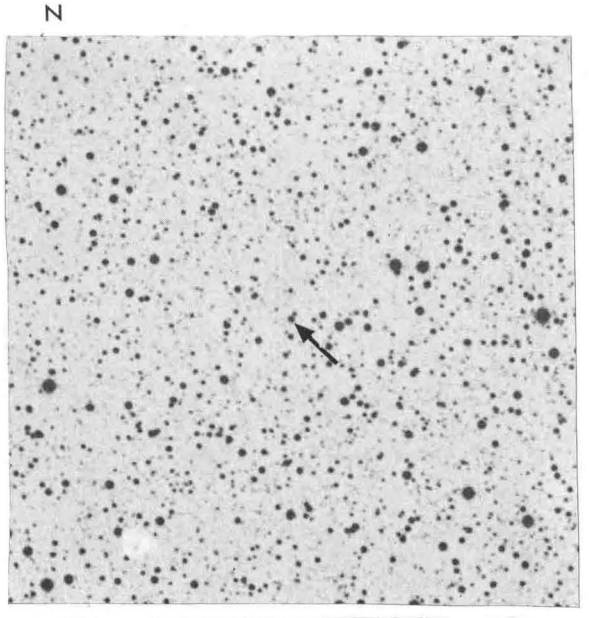
344.2+04.7 Vd 1-1 SRC J 331



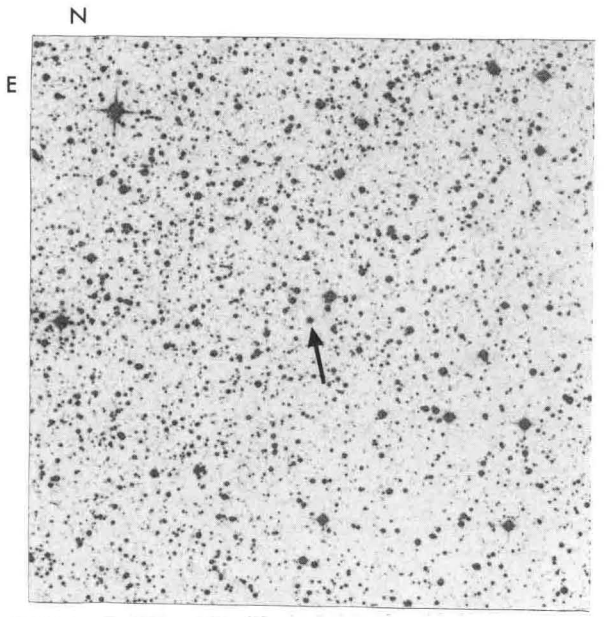
344.2-01.2 H 1- 6 ESO B 332



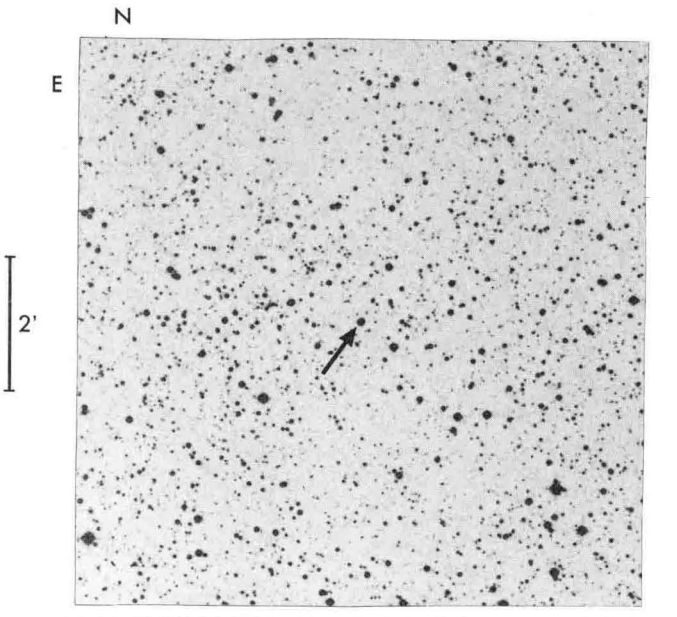
344.4+02.8 Vd 1-5 ESO B 332



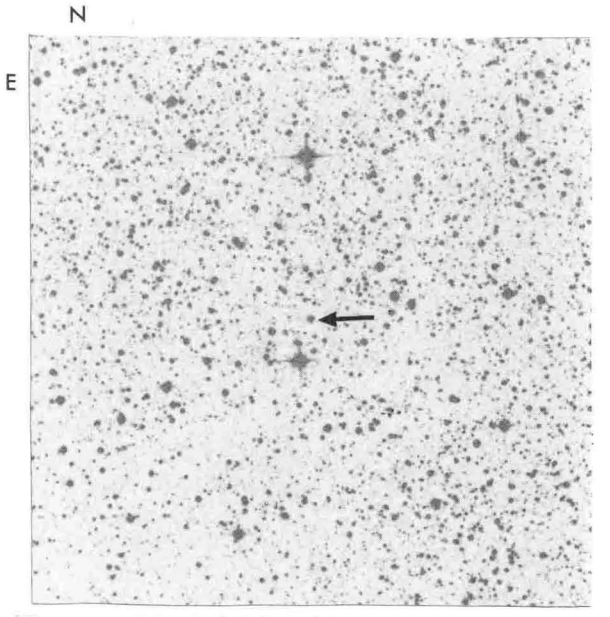
344.4–06.1 Wra 16-278 ESO B 278



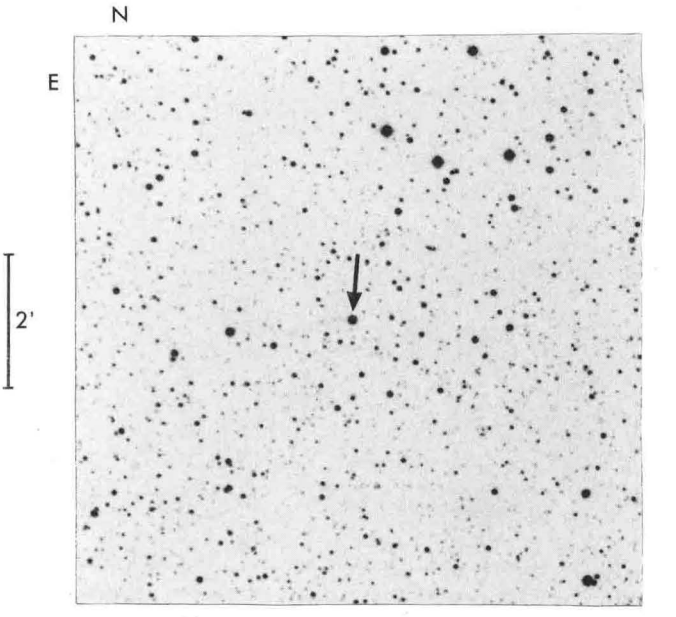
344.8+03.4 Vd 1-3 ESO B 332



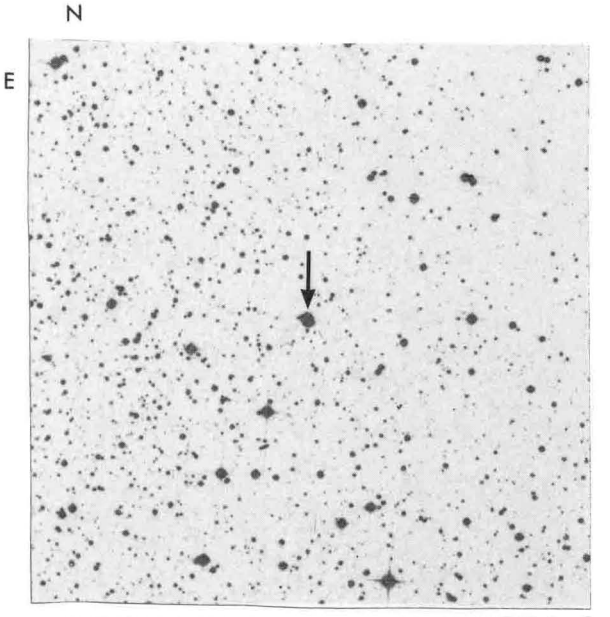
345.0+04.3 Vd 1-2 ESO B 332



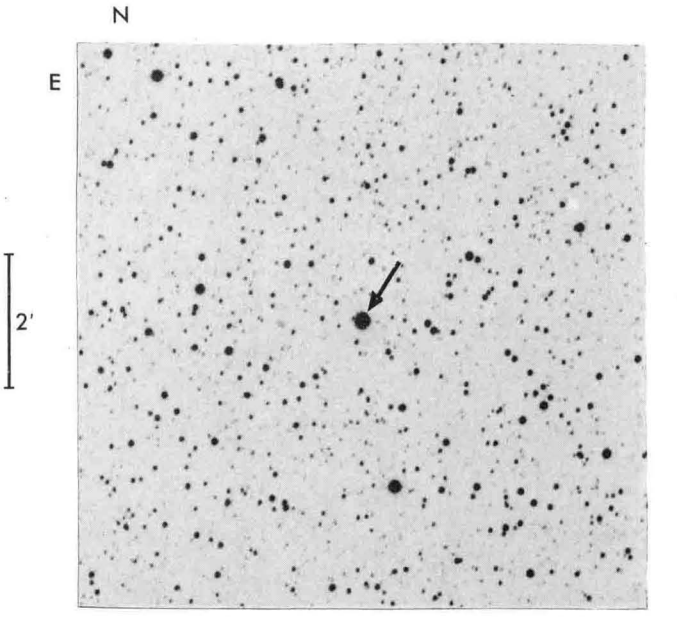
345.0+03.4 Vd 1-4 ESO B 332



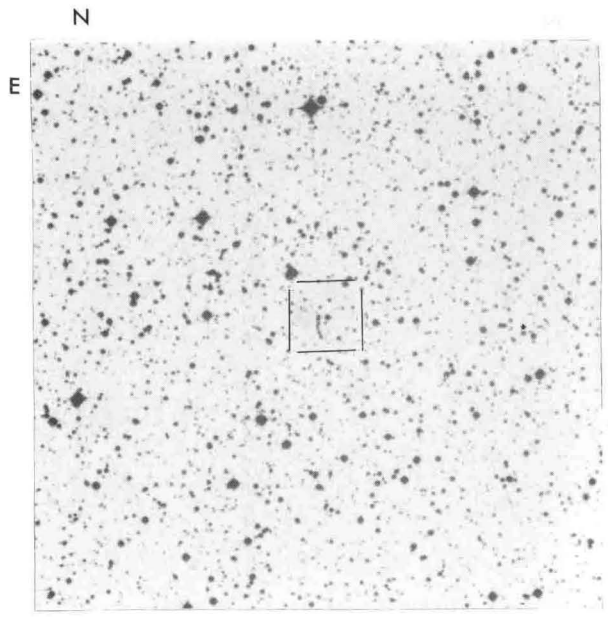
345.0-04.9 Cn 1-3 ESO B 278



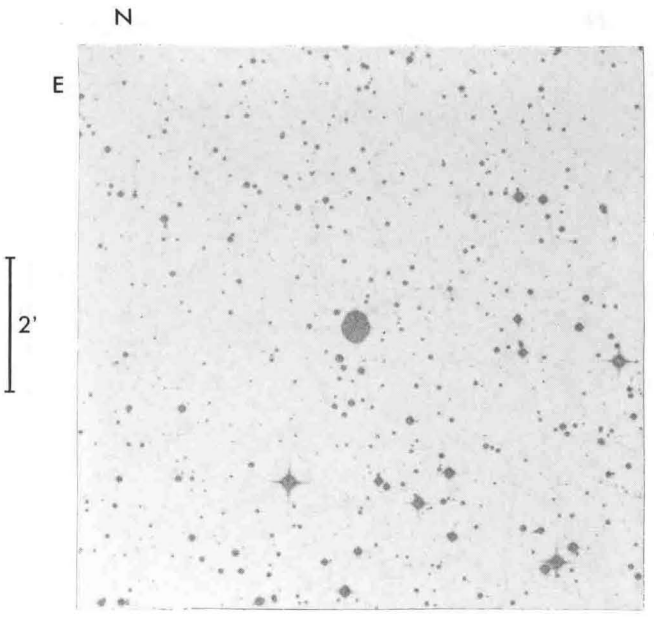
345.2-01.2 H 1- 7 ESO B 332



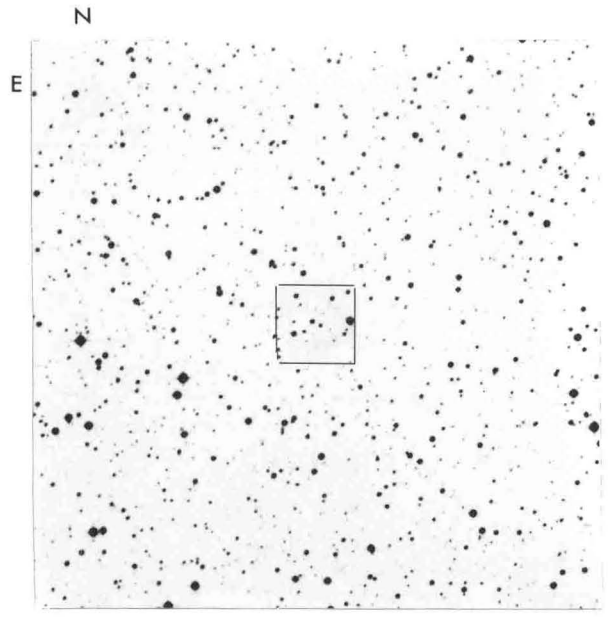
345.2-08.8 Tc 1 ESO B 279



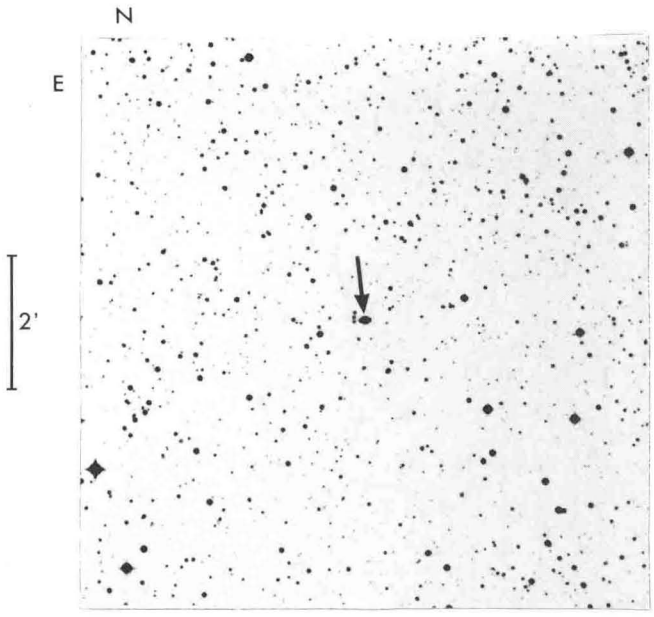
345.3-10.2 MeWe 1-11 SRC J 279



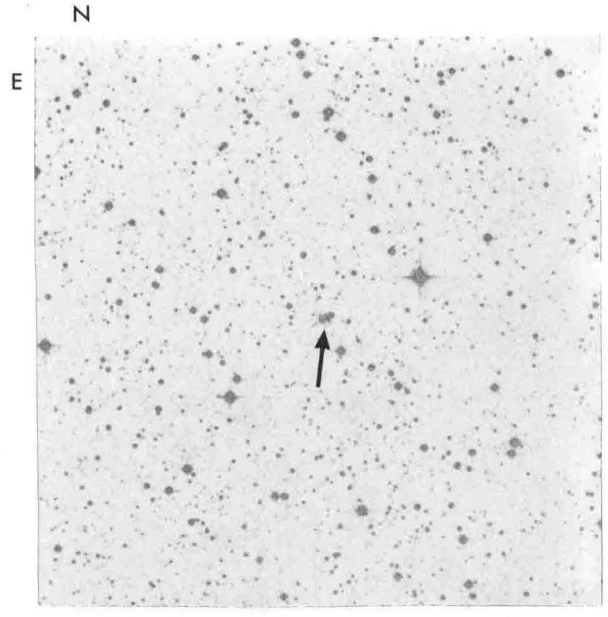
345.4+00.1 IC 4637 ESO B 332



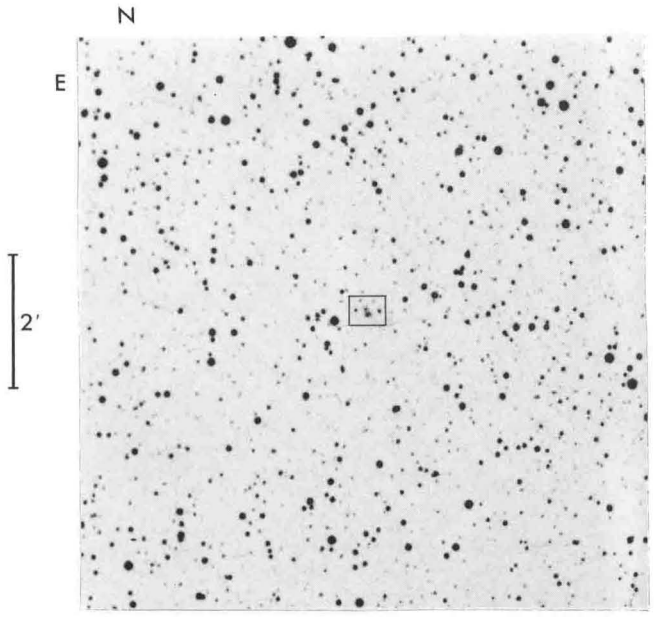
345.5+15.1 Lo 13 SRC J 451



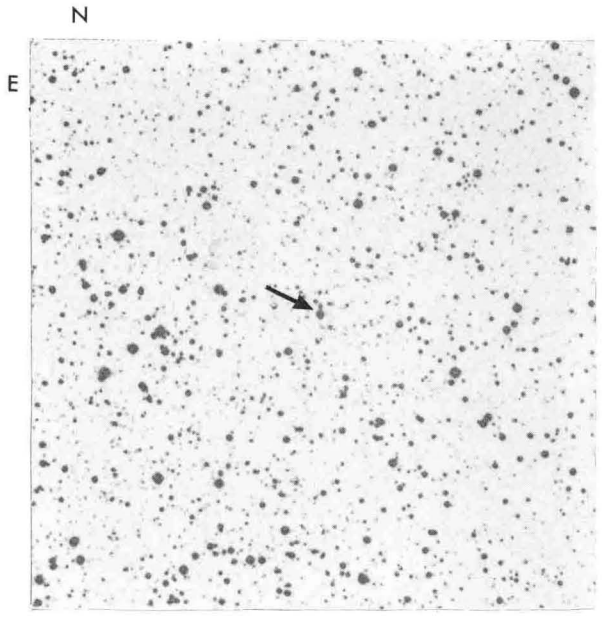
345.6+06.7 He 2-175 SRC J 391



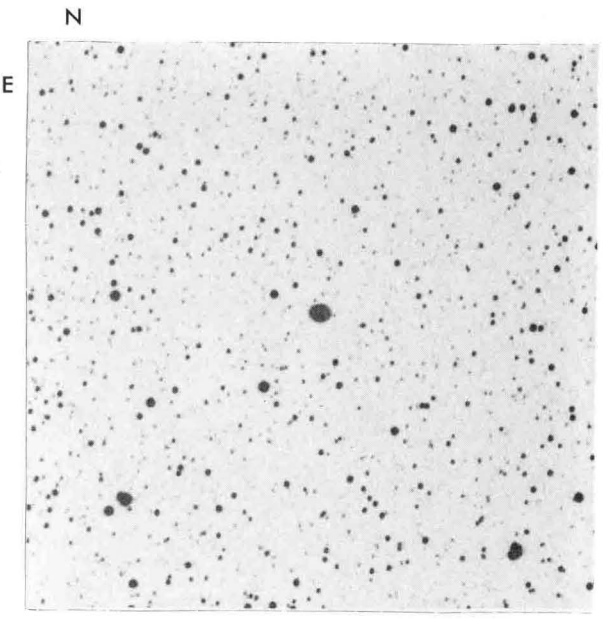
345.9+03.0 Vd 1-6 ESO B 332



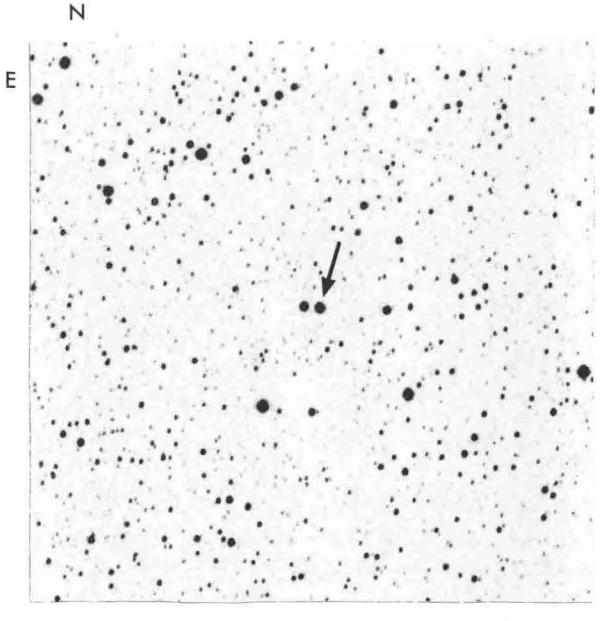
345.9-11.2 ESO 279-14 ESO B 279



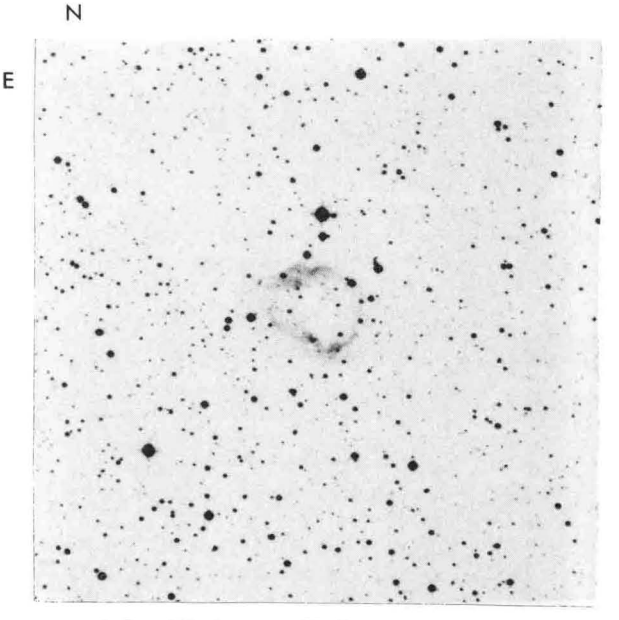
346.0+08.5 He 2-171 ESO B 390



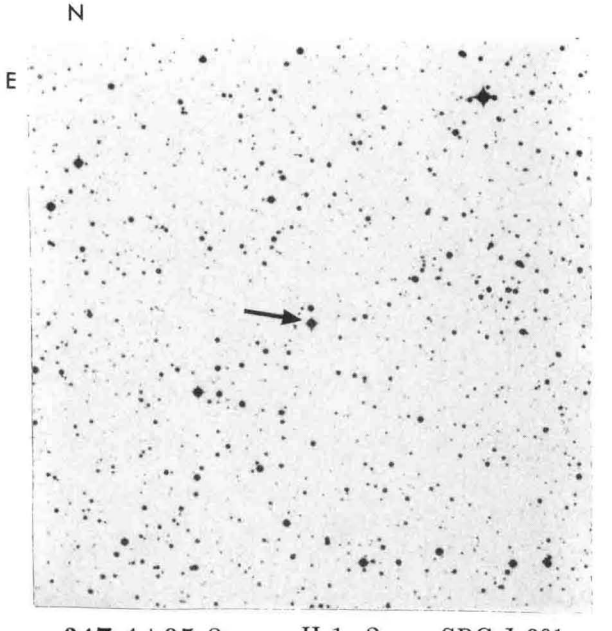
346.2-08.2 IC 4663 ESO B 297



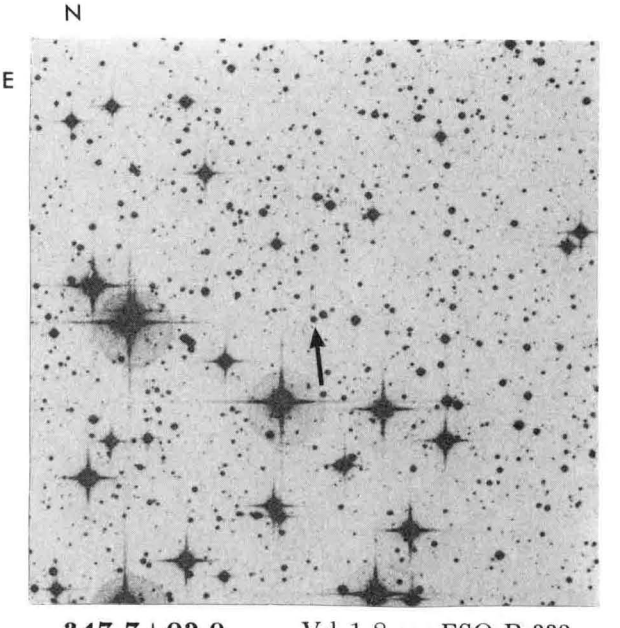
346.3-06.8 Fg 2 ESO B 279



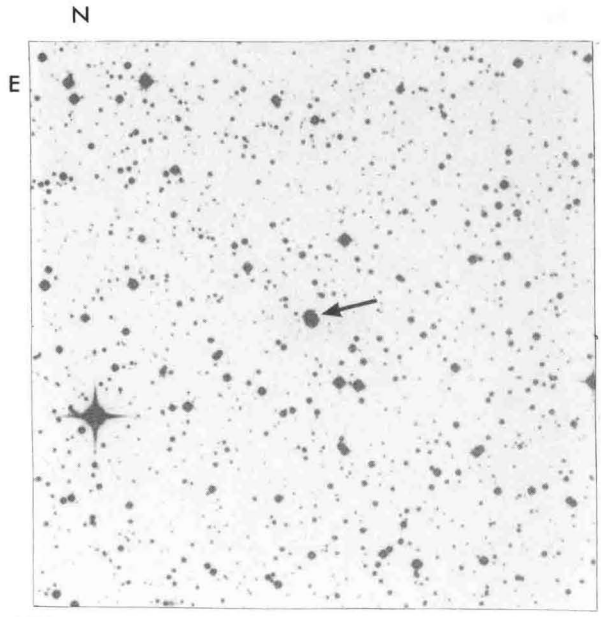
346.9+12.4 K 1- 3 ESO R 452



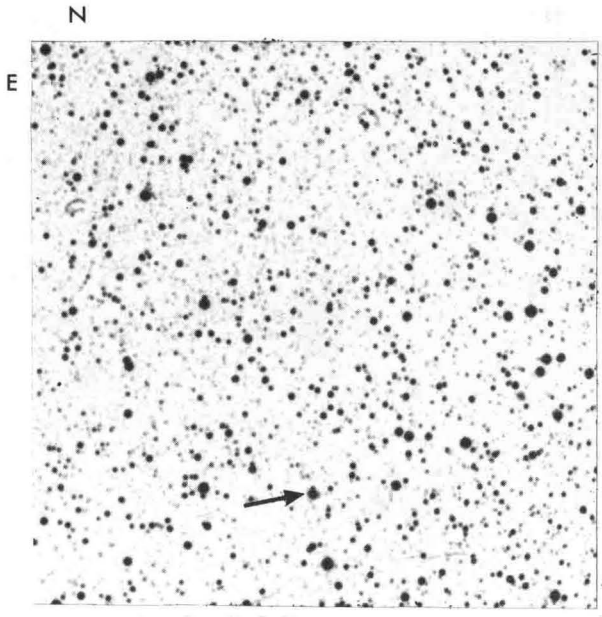
347.4+05.8 H 1- 2 SRC J 391



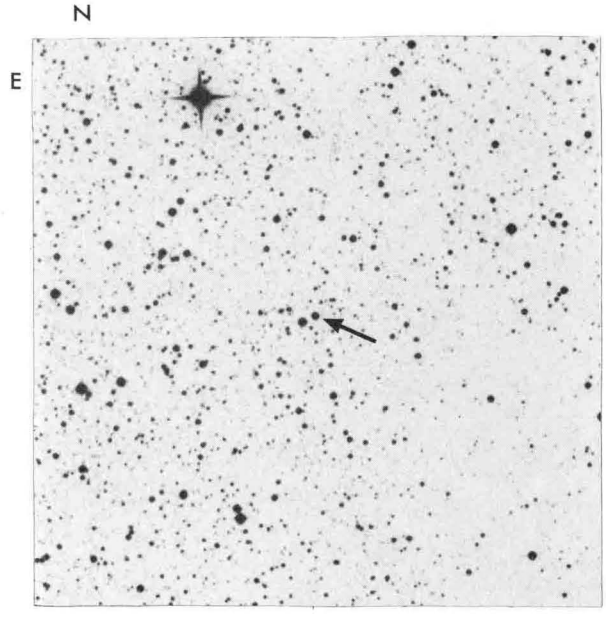
347.7+02.0 Vd 1-8 ESO B 332



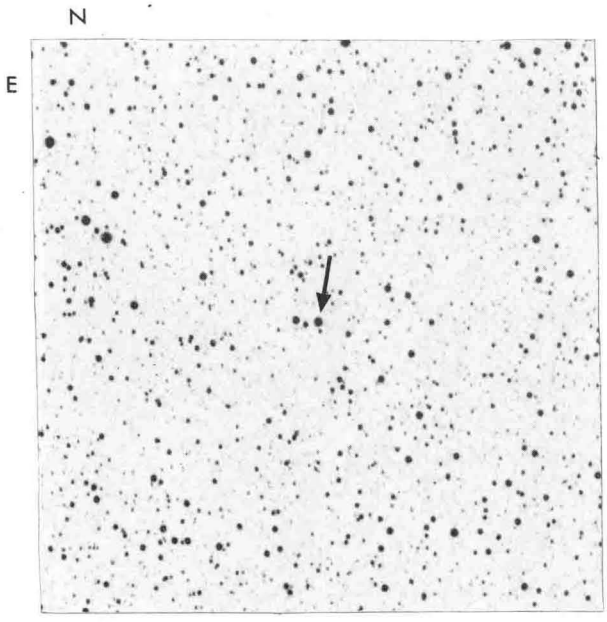
348.0-13.8 IC 4699 SRC J 280



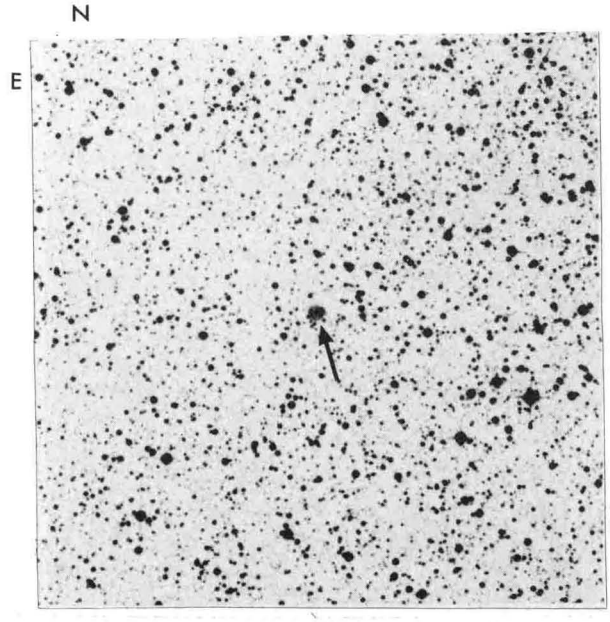
348.0+06.3 RPZM 2-1 **ESO R** 391



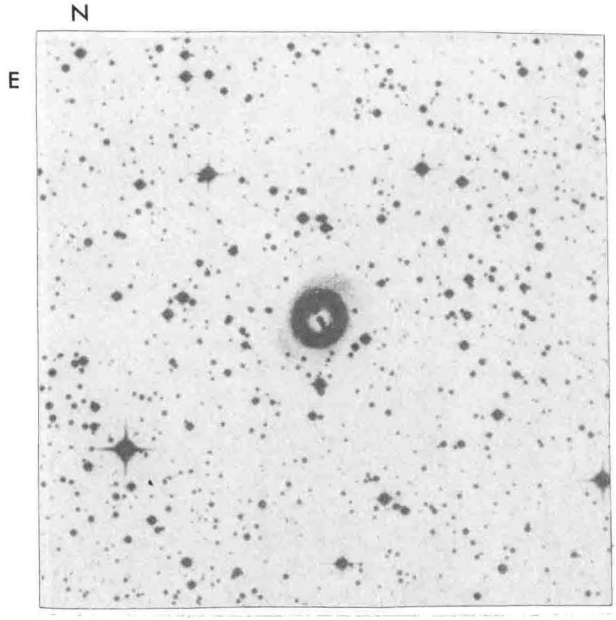
348.4-04.1 H 1-21 SRC J 333



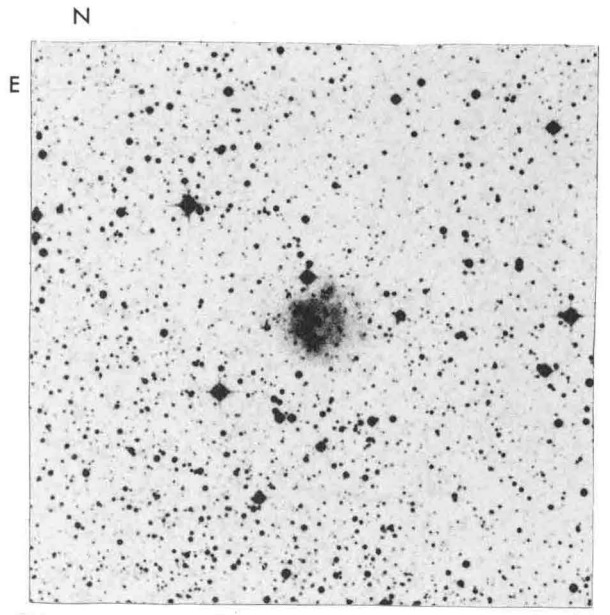
348.8-09.0 He 2- 306 ESO B 279



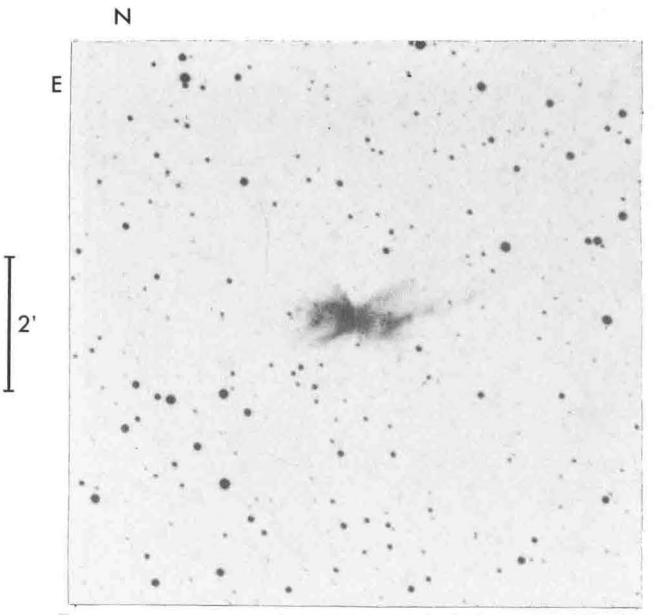
349.2-03.5 H 2-14 SRC J 333



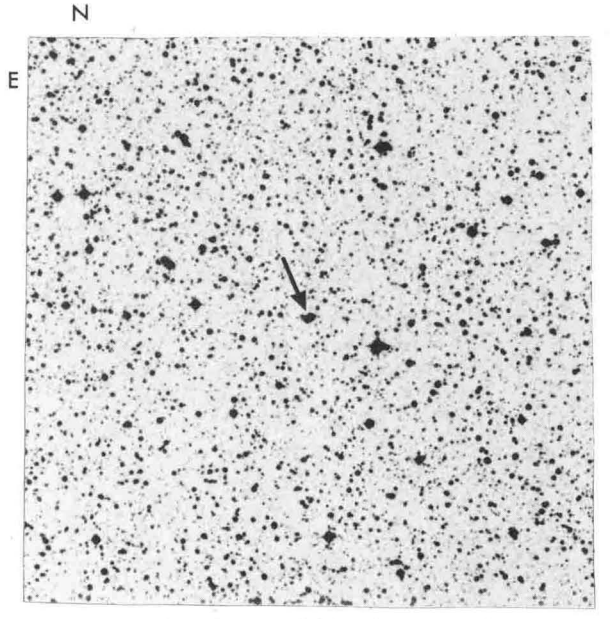
349.3-01.1 NGC 6337 SRC J 333



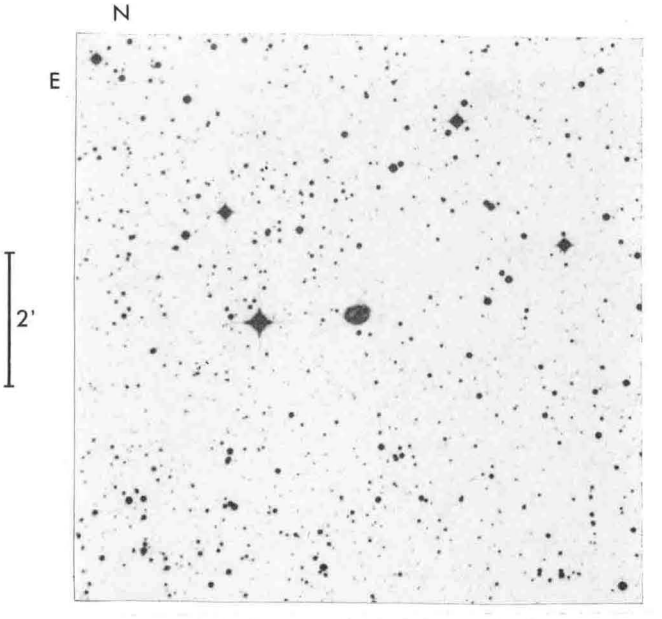
349.3-04.2 Lo 16 SRC J 333



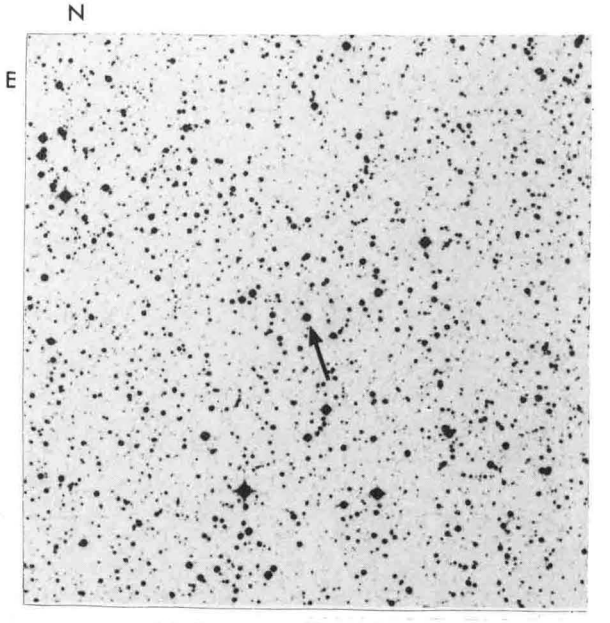
349.5+01.0 NGC 6302 ESO B 392



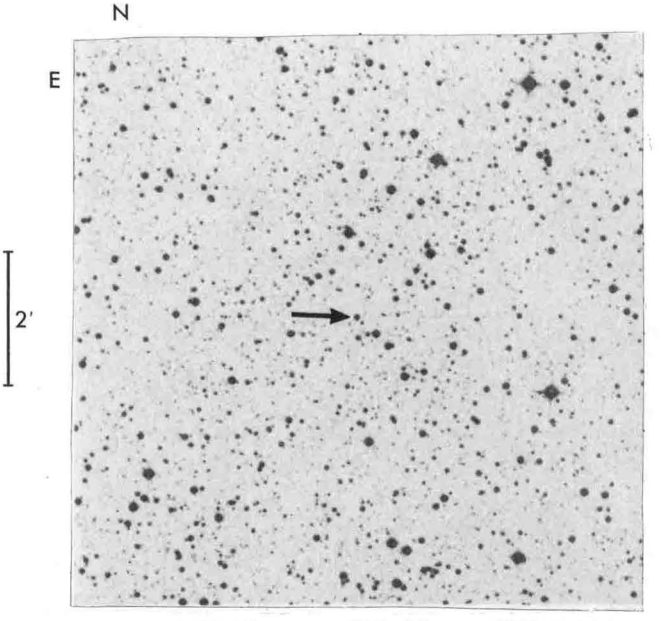
349.8+04.4 M 2- 4 SRC J 391



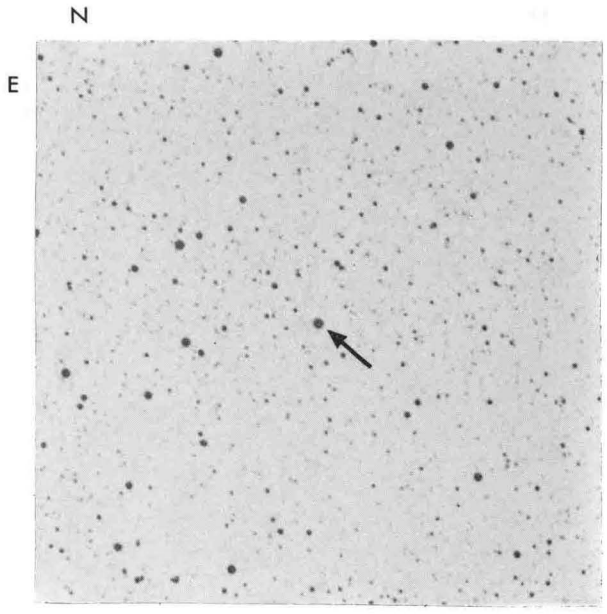
350.1-03.9 H 1-26 SRC J 334



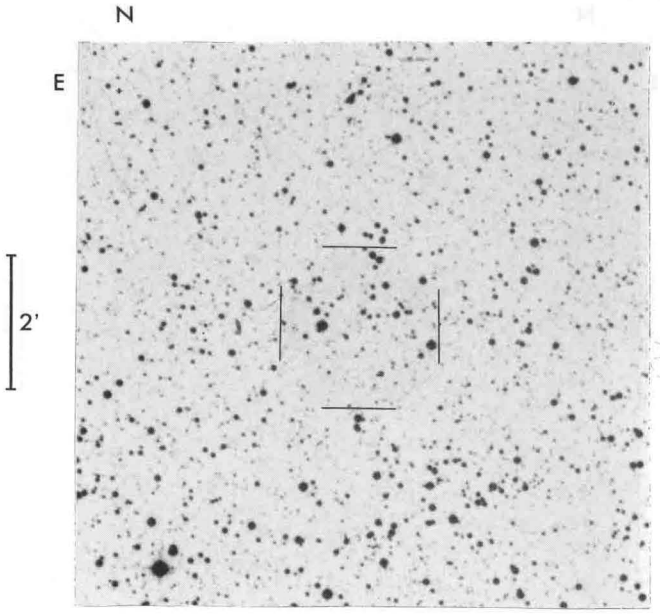
350.5-05.0 H 1-28 SRC J 334



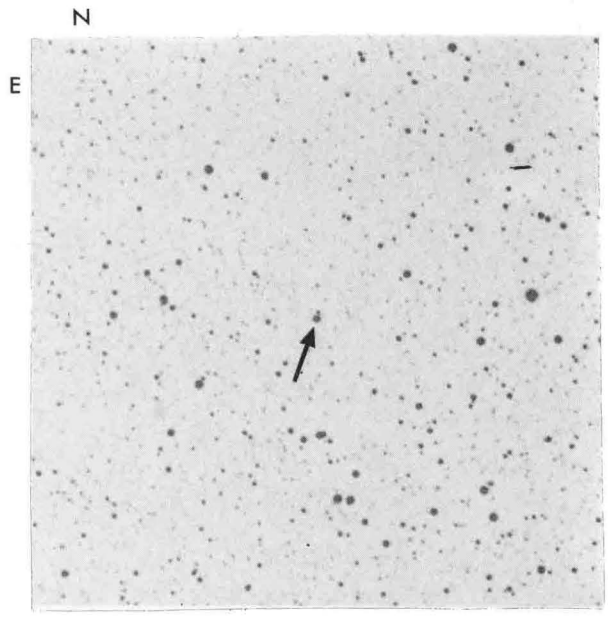
350.8-02.4 H 1-22 SRC J 333



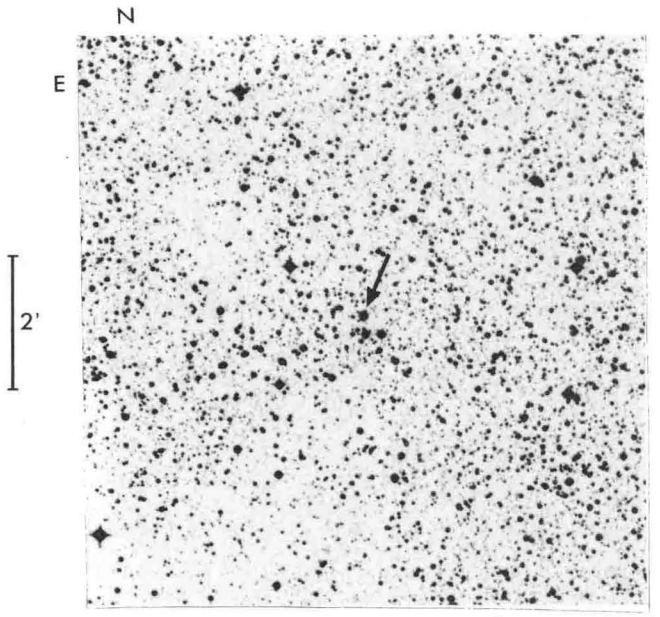
350.9+04.4 H 2- 1 ESO B 392



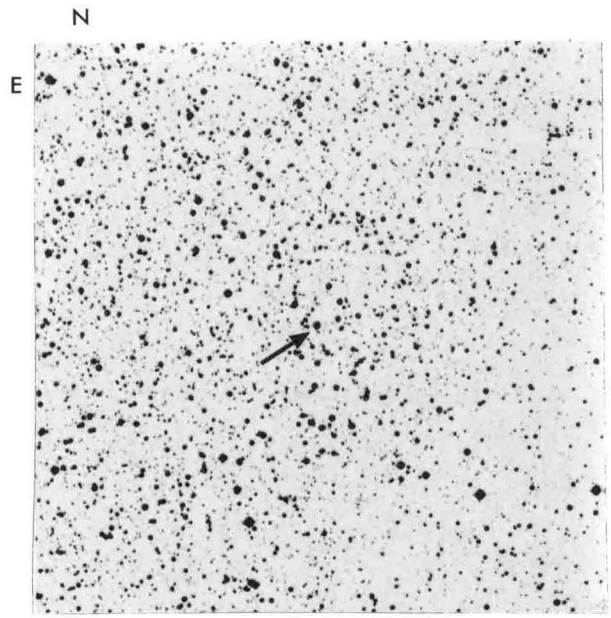
351.0-10.4 HaTr 9 ESO R 335



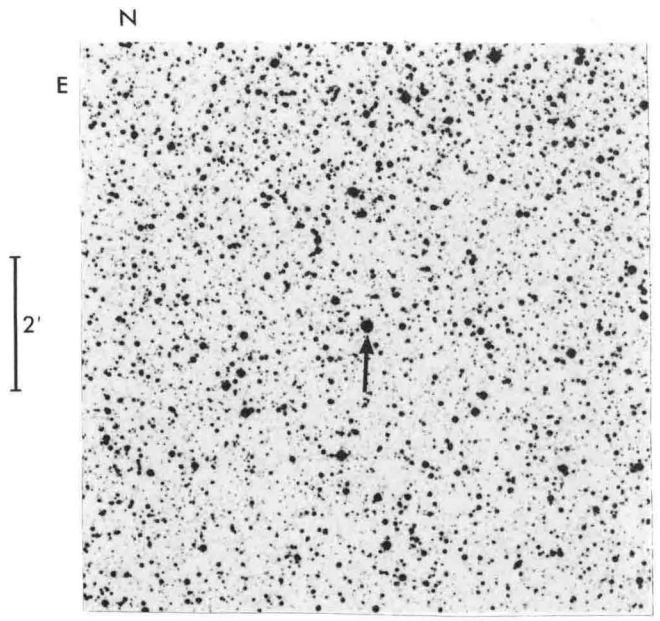
351.1+04.8 M 1-19 ESO B 392



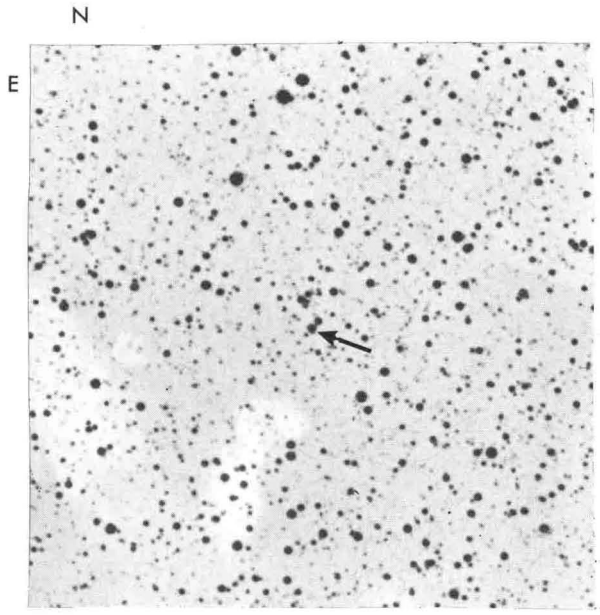
351.2+05.2 M 2- 5 SRC J 391



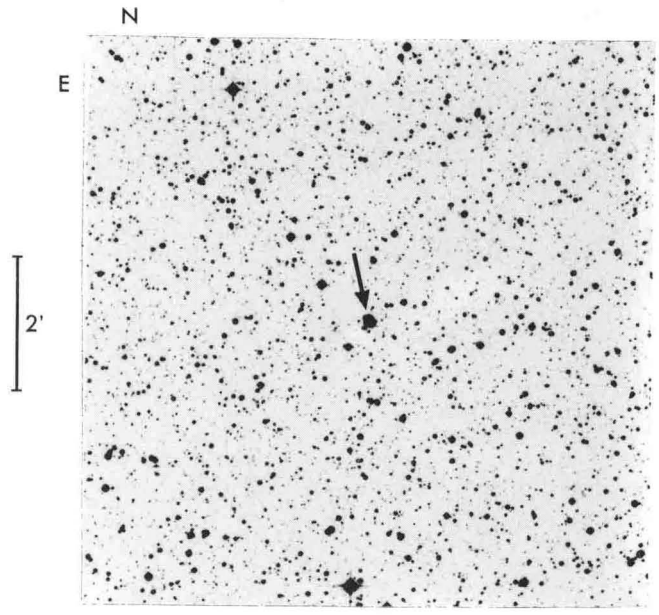
351.3+07.6 H 1- 4 SRC J 453



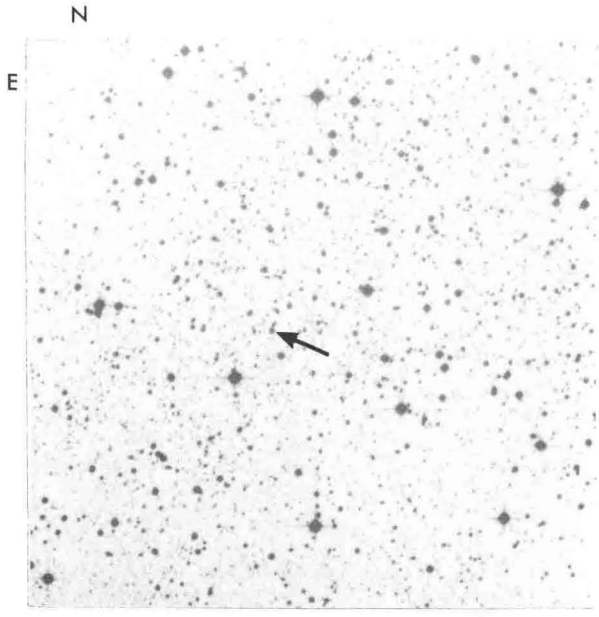
351.6-06.2 H 1-37 SRC J 334



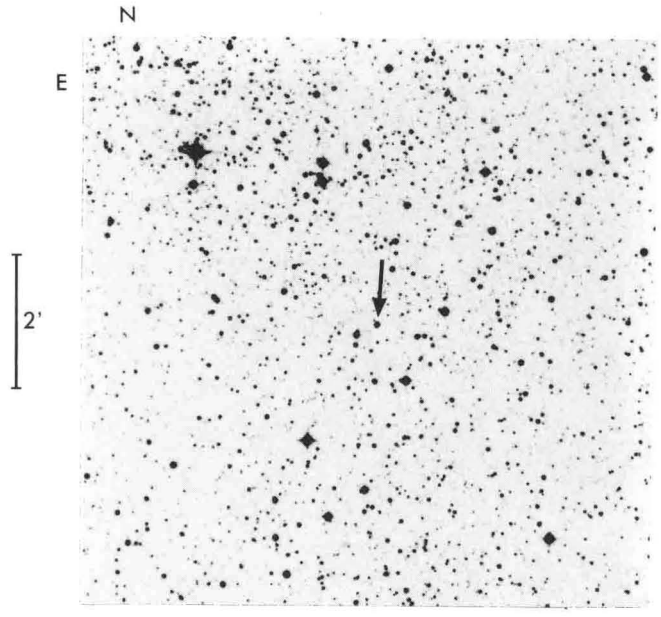
351.7−10.9 Wray 16-385 ESO B 335



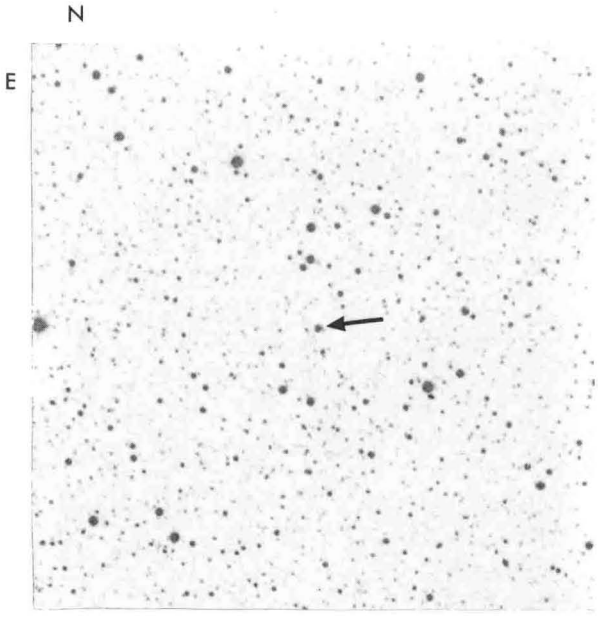
351.9+09.0 PC 13 SRC J 453



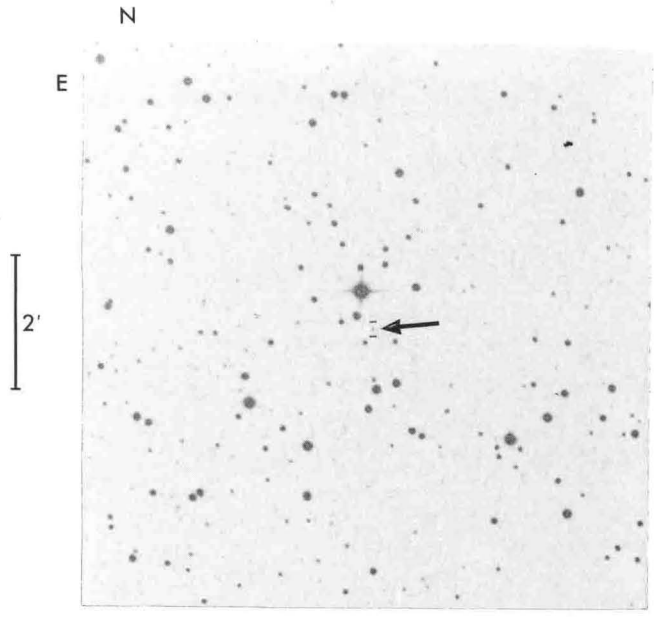
351.9-01.9 Wray 16-286 SRC J 393



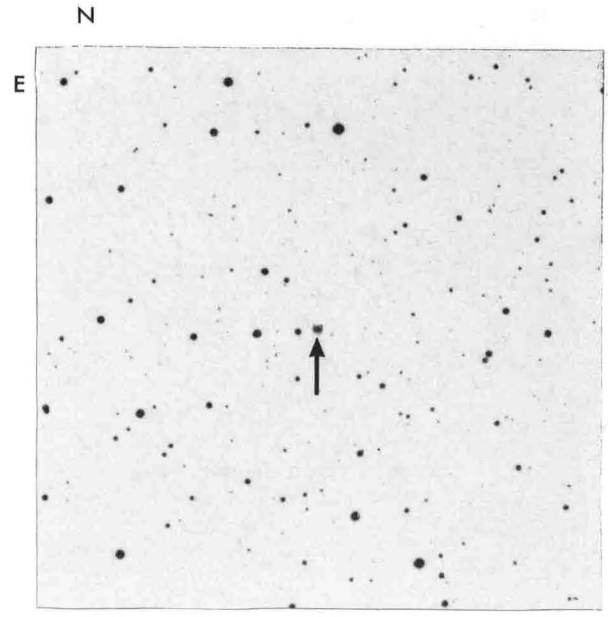
352.0-04.6 H 1-30 SRC J 334



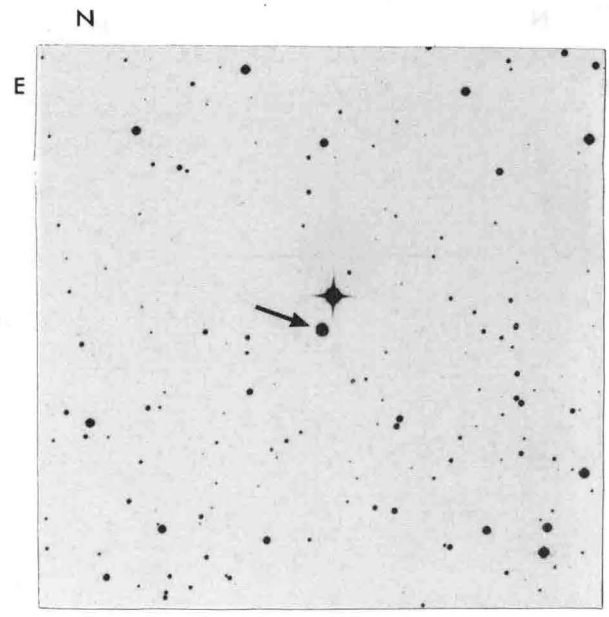
352.1+05.1 M 2- 8 ESO B 392



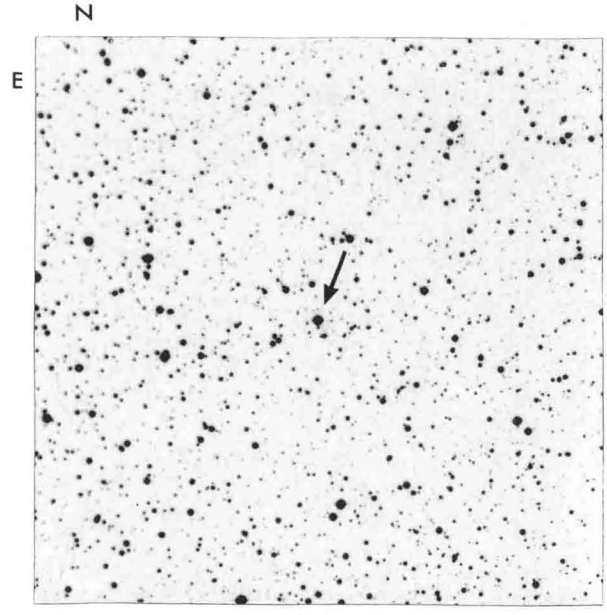
352.6+03.0 H 1- 8 ESO B 392



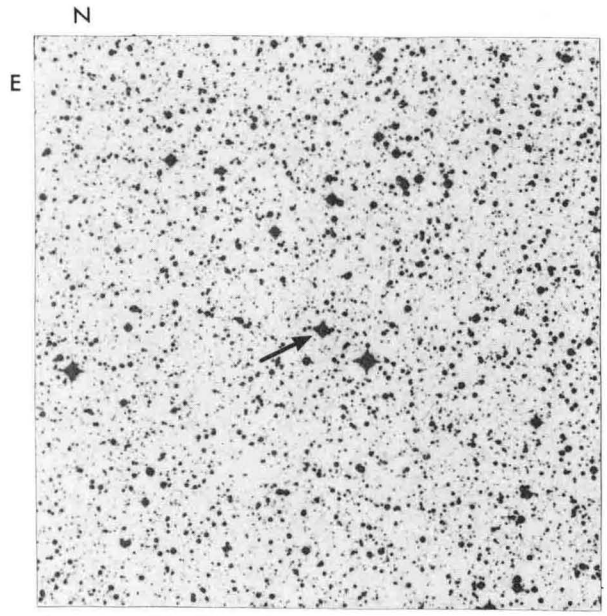
352.6+00.1 H 1-12 ESO R 392



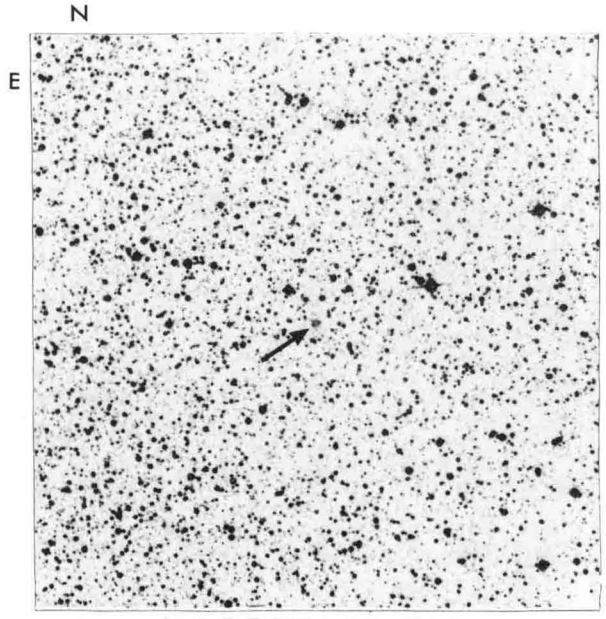
352.8 - 00.2 H 1-13 SRC J 393



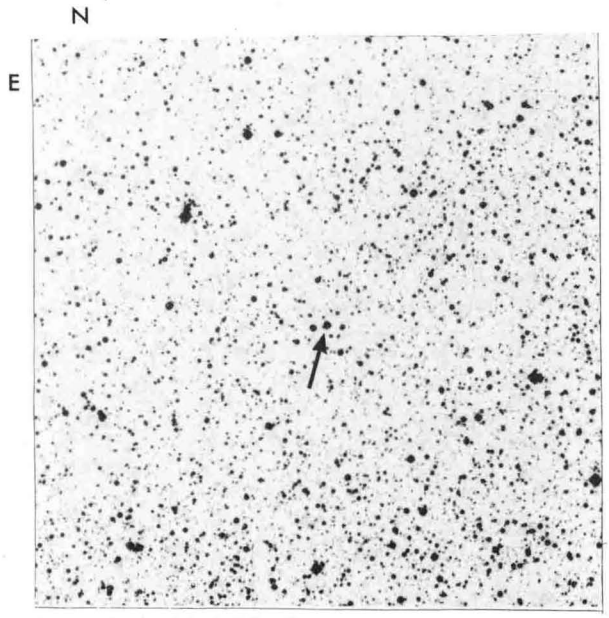
352.9+11.4 K 2-16 SRC J 453



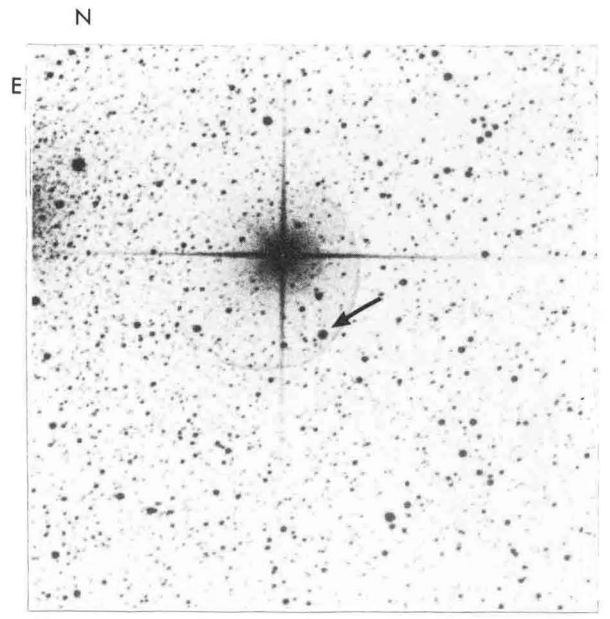
352.9-07.5 Fg 3 SRC J 334



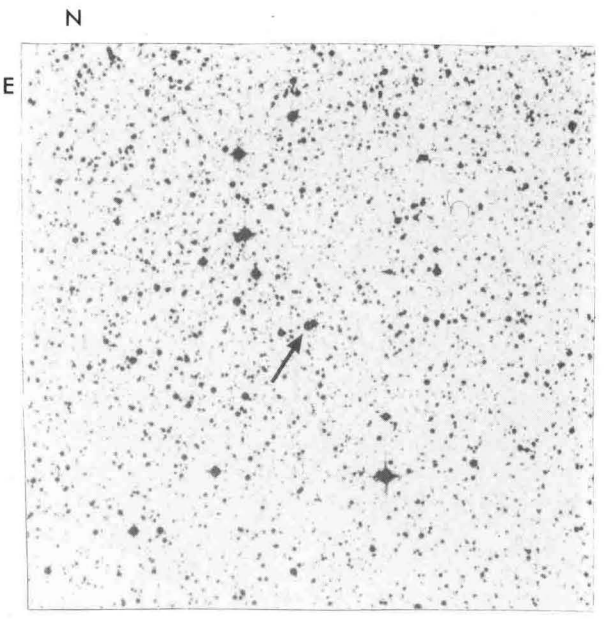
353.2-05.2 H 1-38 SRC J 334



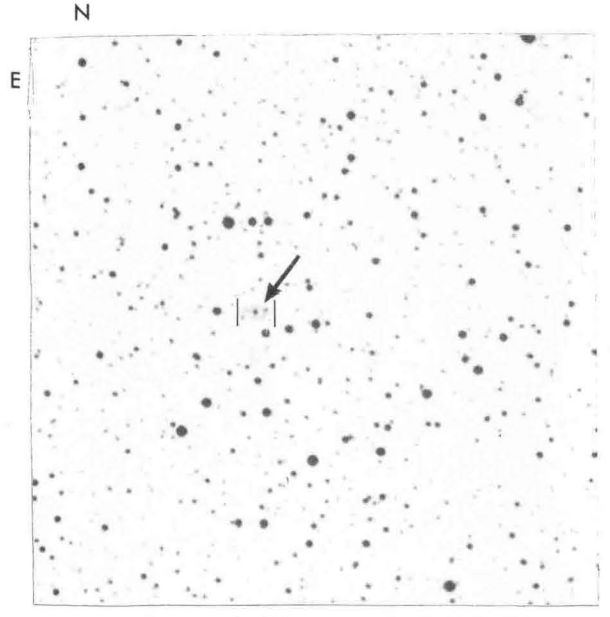
353.3+06.3 M 2- 6 SRC J 453



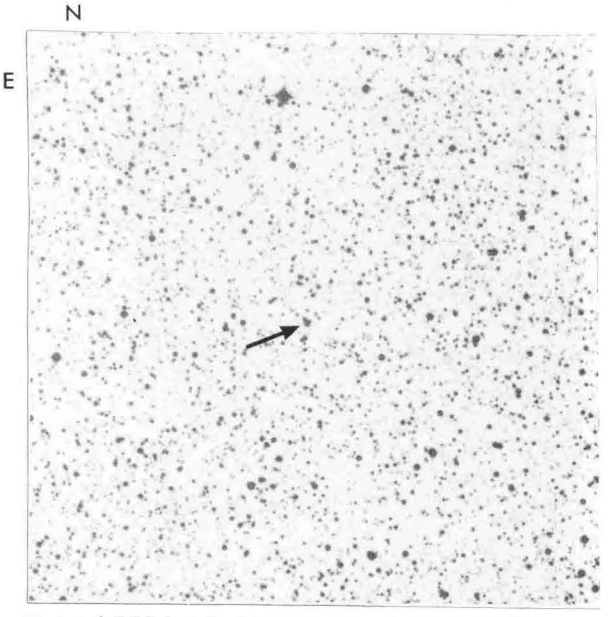
353.5-04.9 H 1-36 ESO B 393



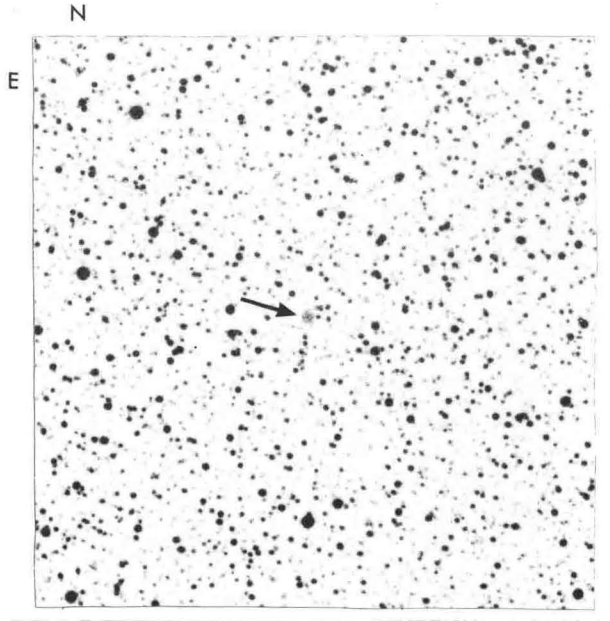
353.7+06.3 M 2- 7 SRC J 453



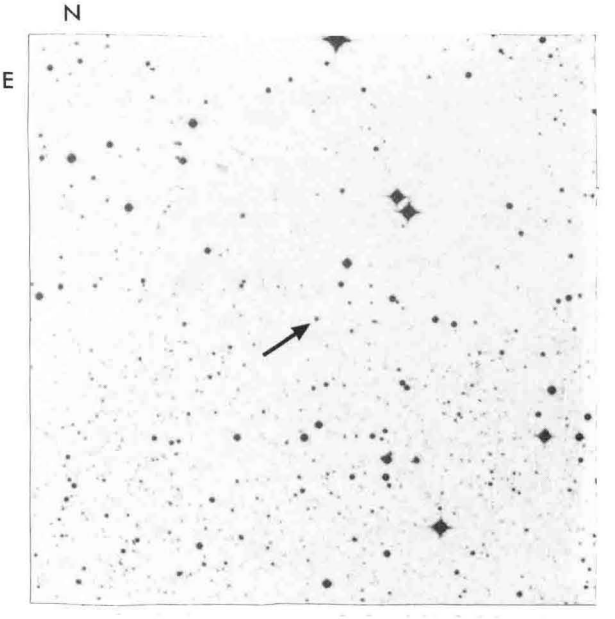
353.7-12.8 Wray 16-411 ESO B 335



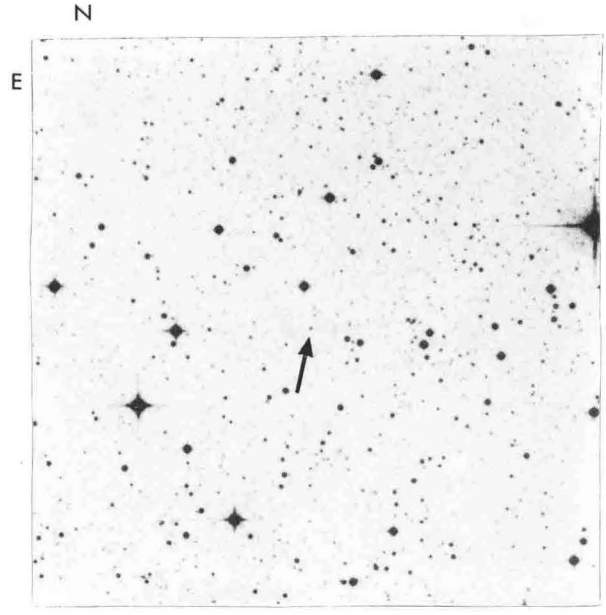
354.2+04.3 M 2-10 SRC J 454



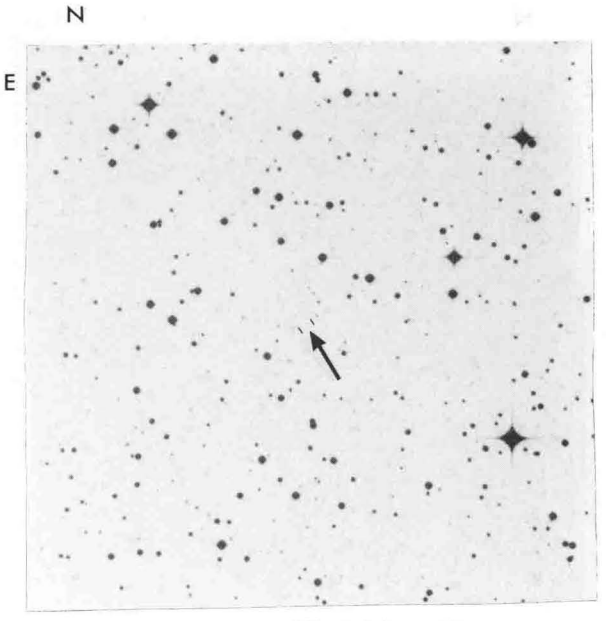
354.4-07.8 H 1-52 ESO B 335



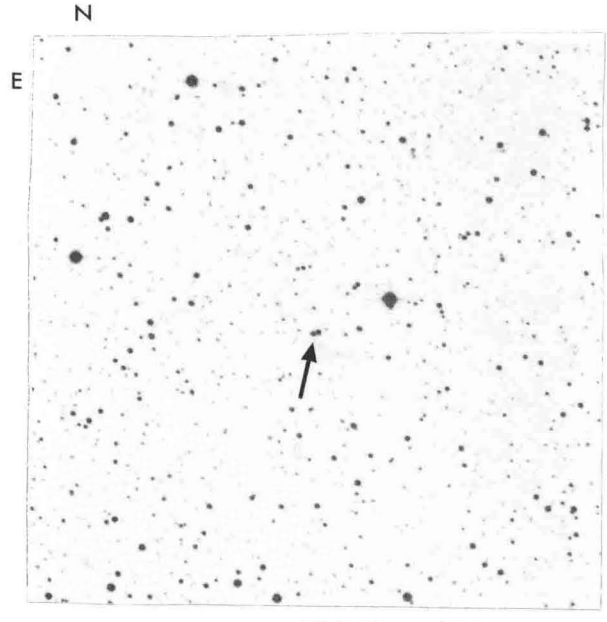
354.5+03.3 Th 3- 4 SRC J 454



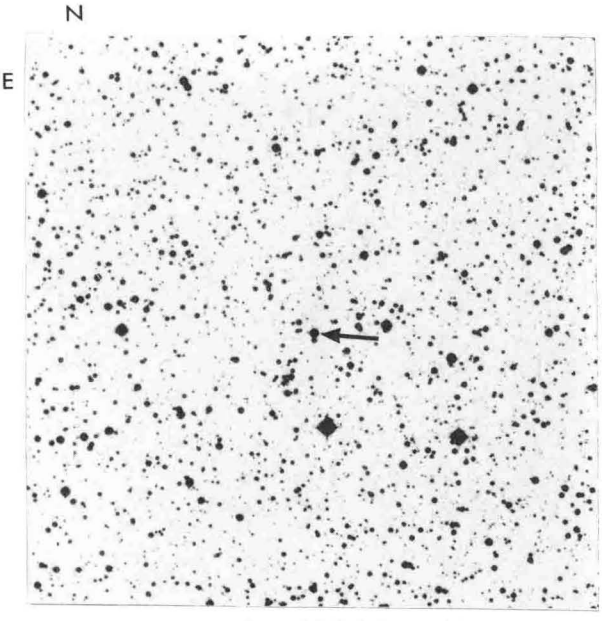
354.9+03.5 Th 3- 6 SRC J 454



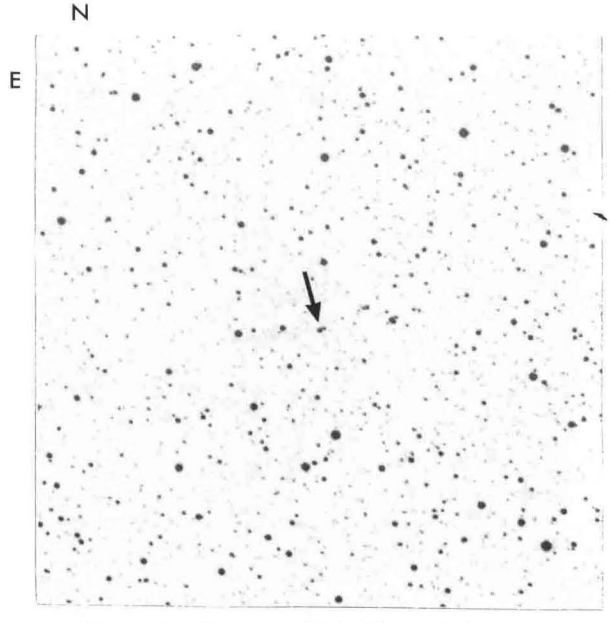
355.1+02.3 Th 3-11 SRC J 454



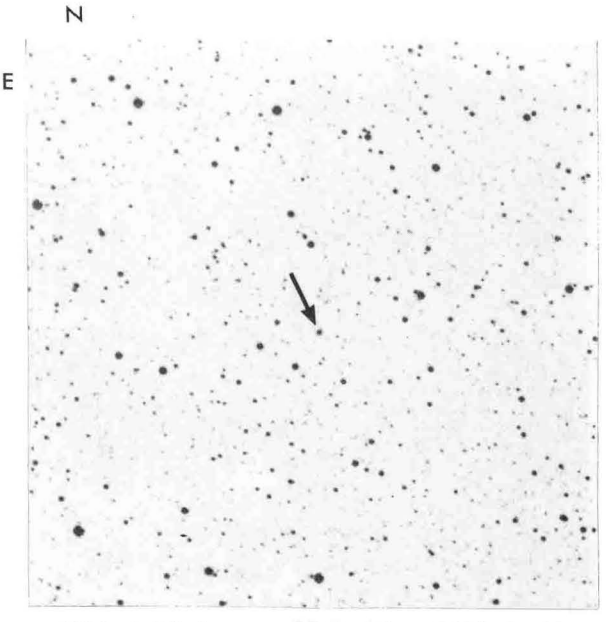
355.1-02.9 H 1-31 ESO B 393



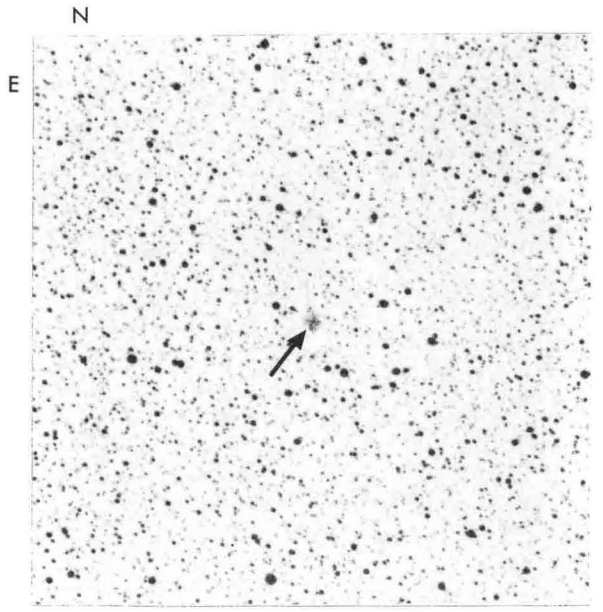
355.1-06.9 M 3-21 ESO R 394



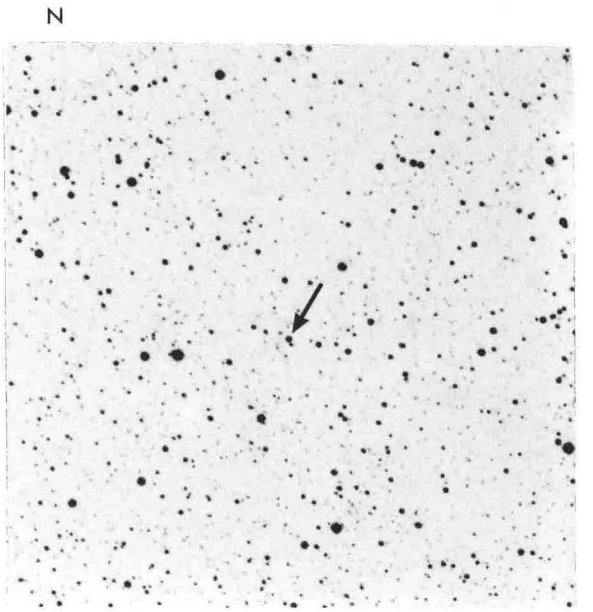
355.2-02.5 H 1-29 ESO B 393



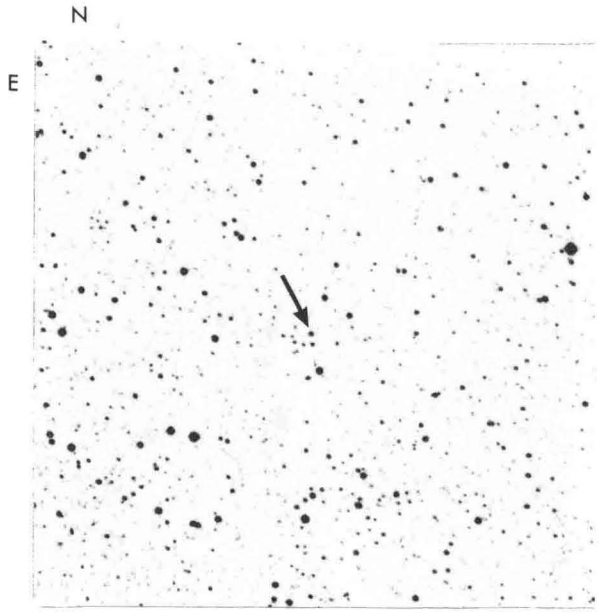
355.4-02.4 M 3- 14 ESO B 393



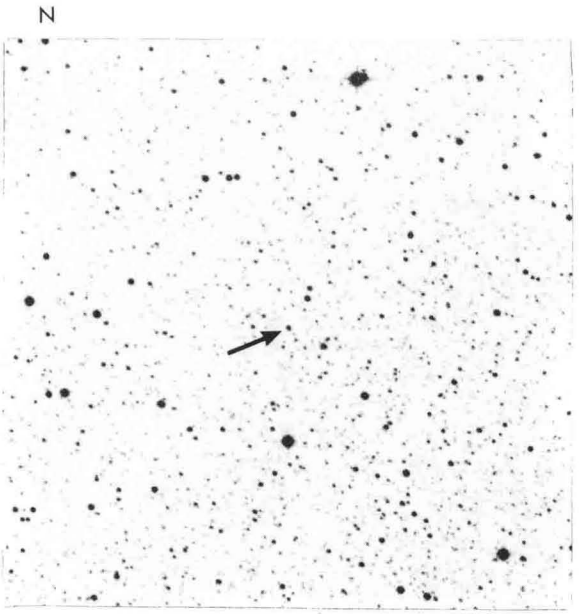
355.4-04.0 Hf 2-1 ESO B 393



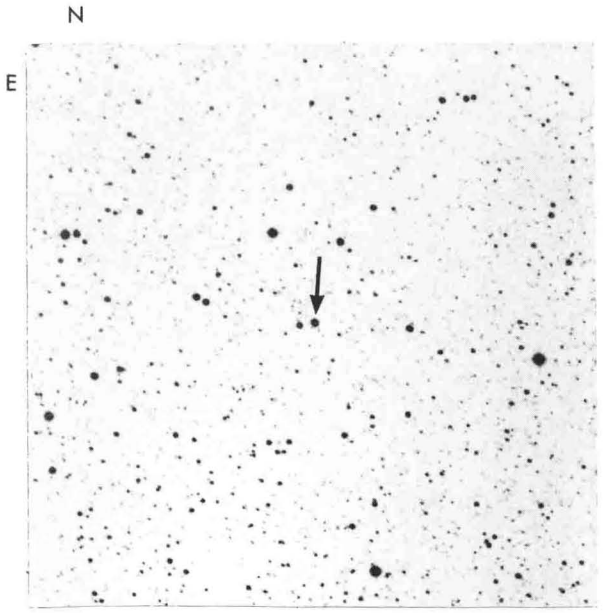
355.6-02.7 H 1-32 ESO B 393



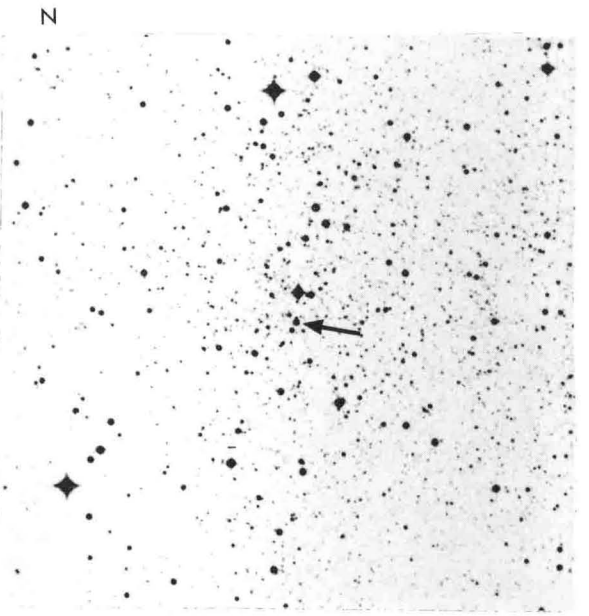
355.7-03.0 H 1-33 ESO B 393



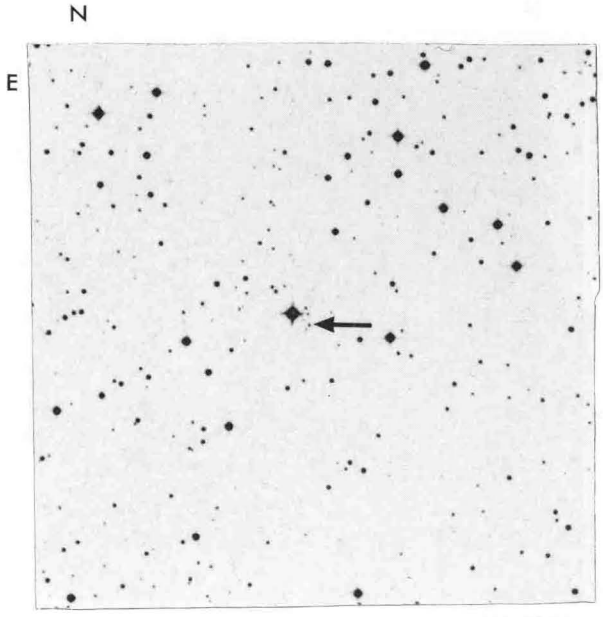
355.7-03.4 H 2-23 ESO B 393



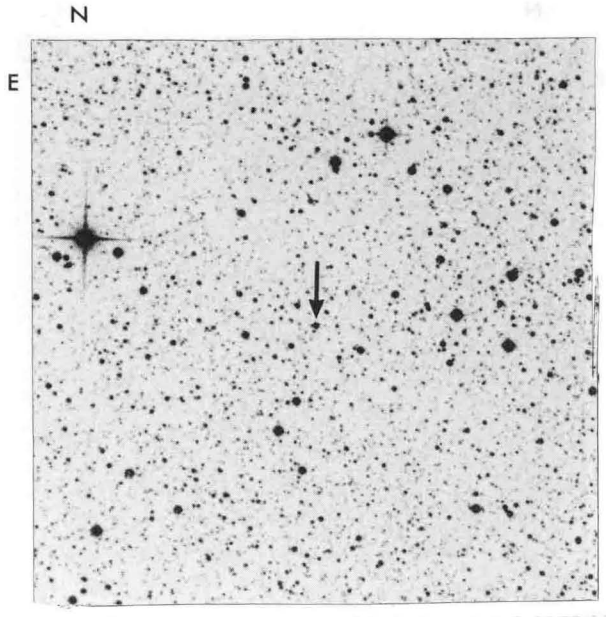
355.7-03.5 H 1-35 ESO B 393



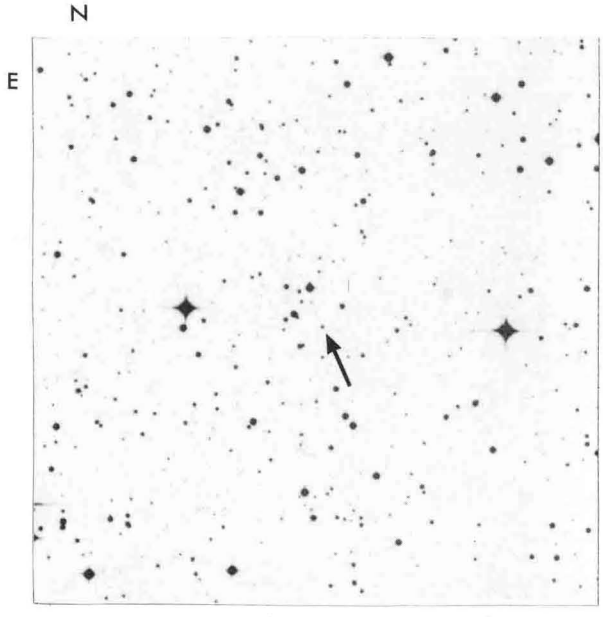
355.9+03.6 H 1- 9 SRC J 454



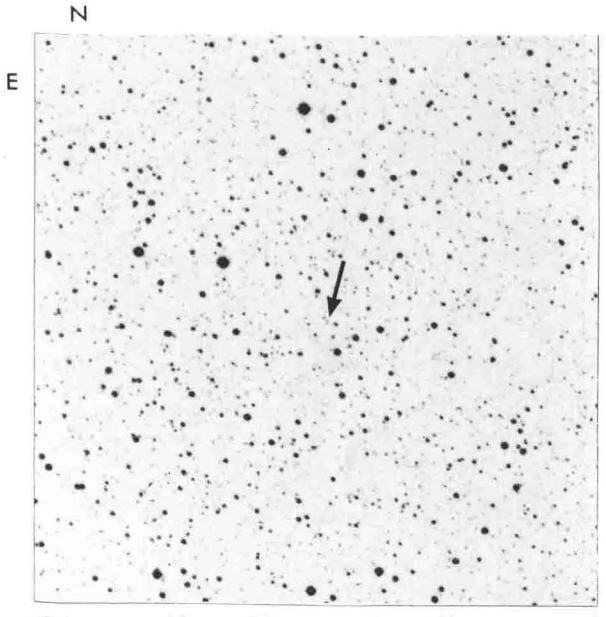
355.9+02.7 Th 3-10 SRC J 454



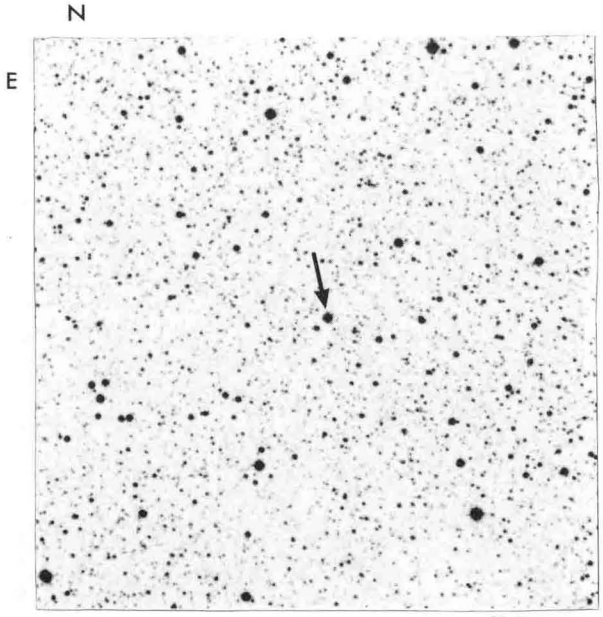
355.9-04.2 M 1-30 ESO B 394



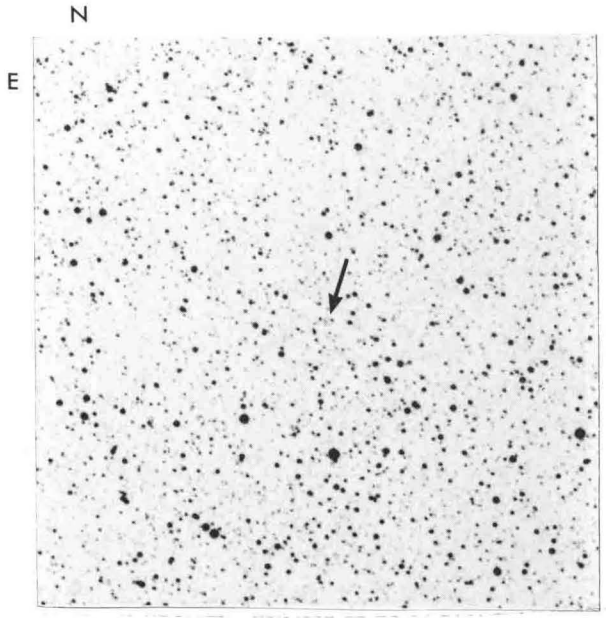
356.1+02.7 Th 3-13 SRC J 454



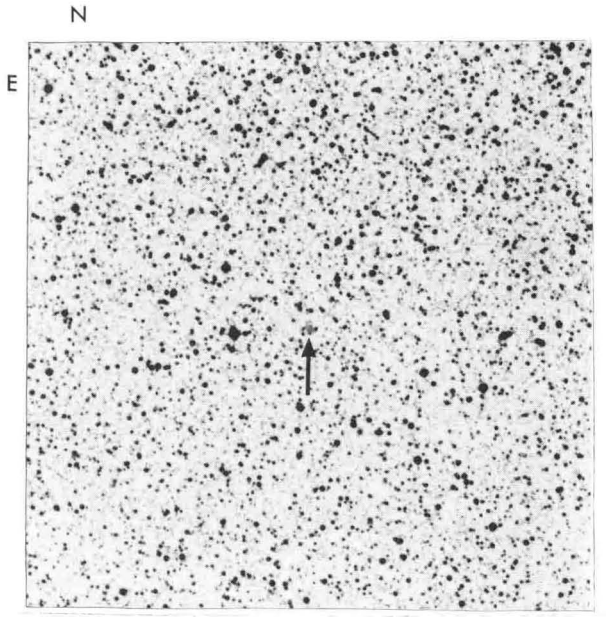
356.1-03.3 H 2-26 ESO B 393



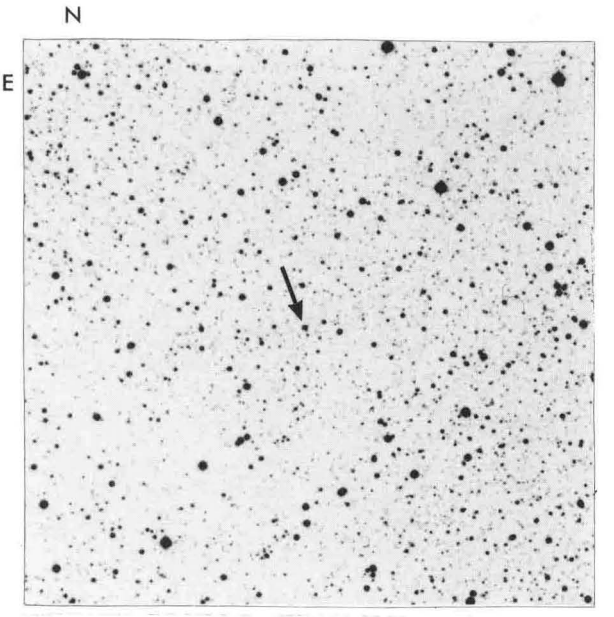
356.2-04.4 Cn 2- 1 ESO B 394



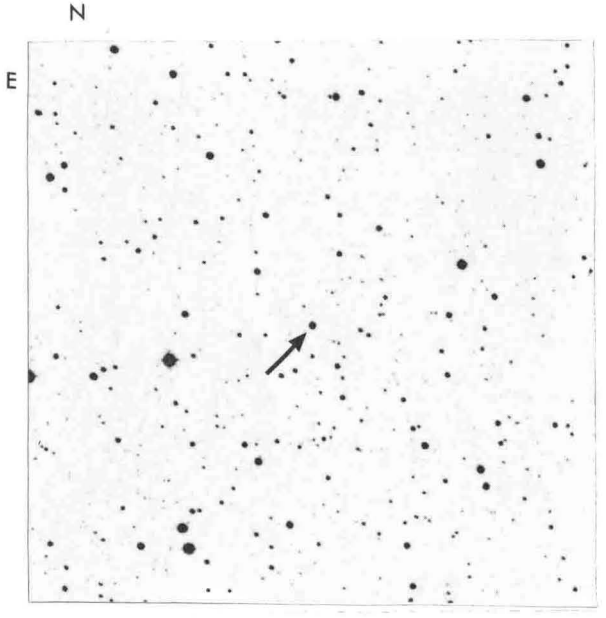
356.3-06.2 M 3-49 ESO B 394



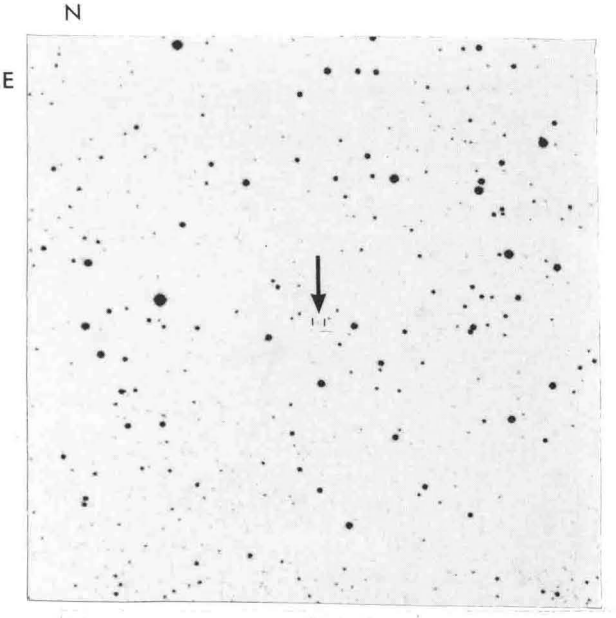
356.5+05.1 Th 3- 3 SRC J 454



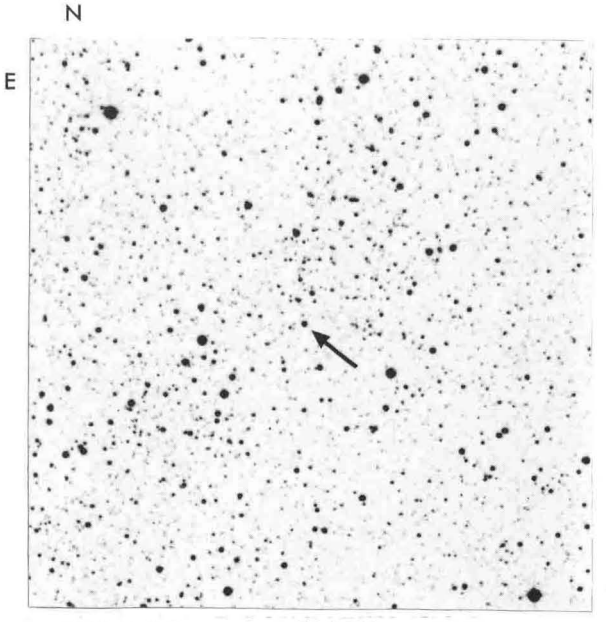
356.5+01.5 Th 3-55 ESO R 455



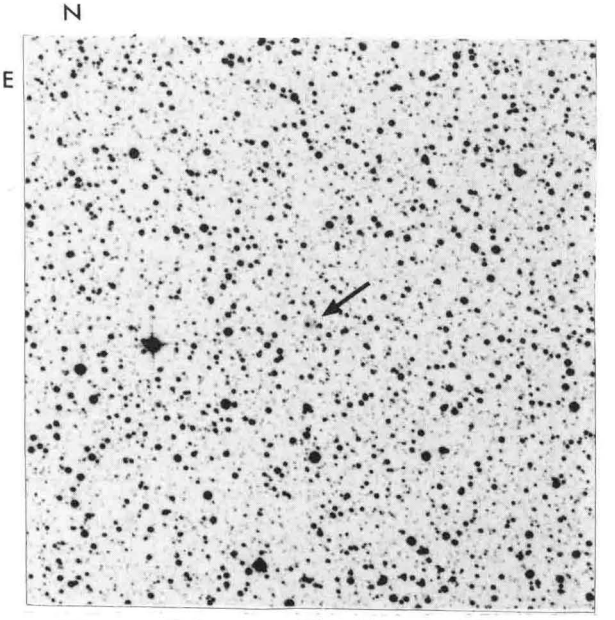
356.5-02.3 M 1-27 ESO B 393



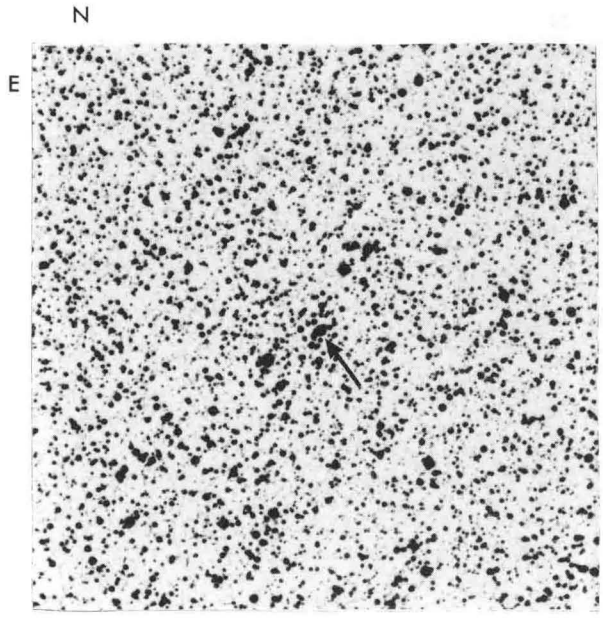
356.5-03.6 H 2-27 ESO B 394



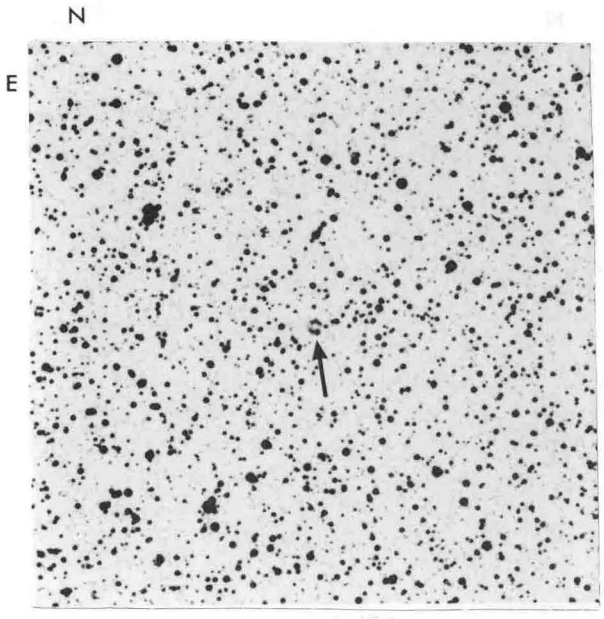
356.5-03.9 H 1-39 ESO B 394



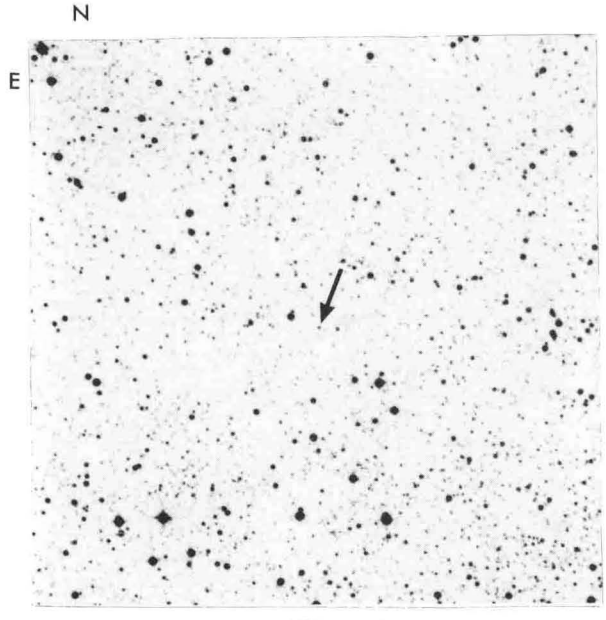
356.6-07.8 H 1-57 ESO B 394



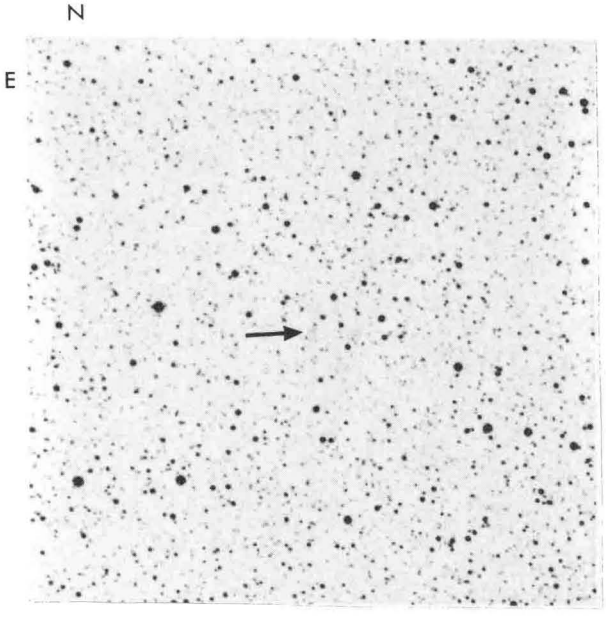
356.7-04.8 H 1-41 ESO R 394



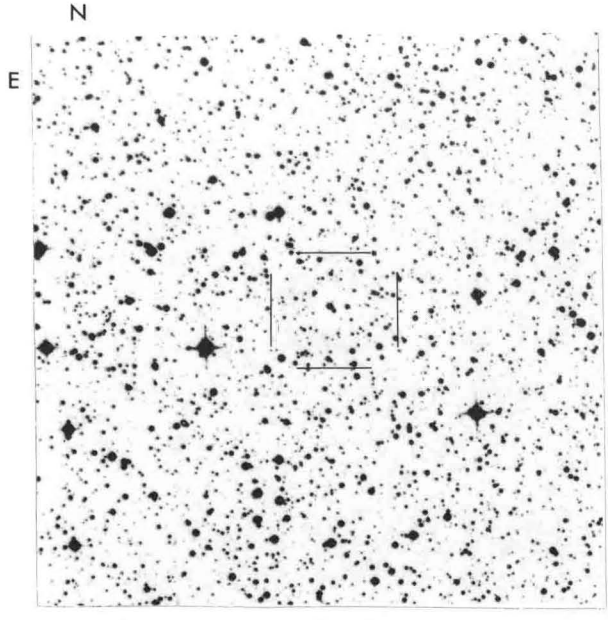
356.7-06.4 H 1-51 ESO R 394



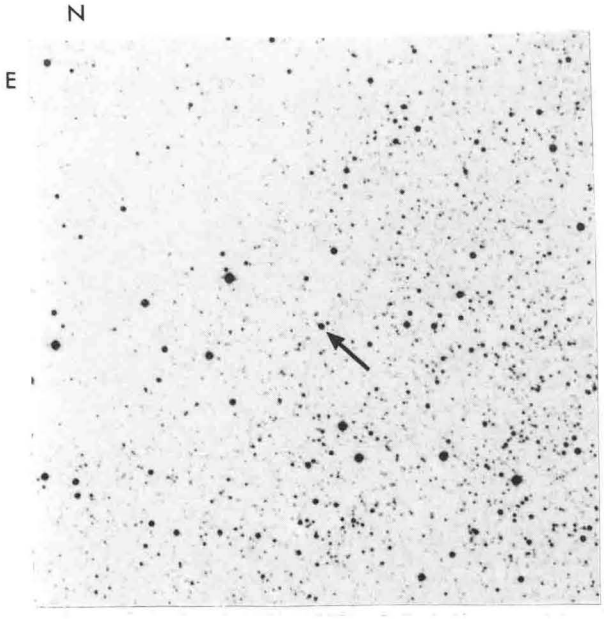
356.8+03.3 Th 3-12 SRC J 371



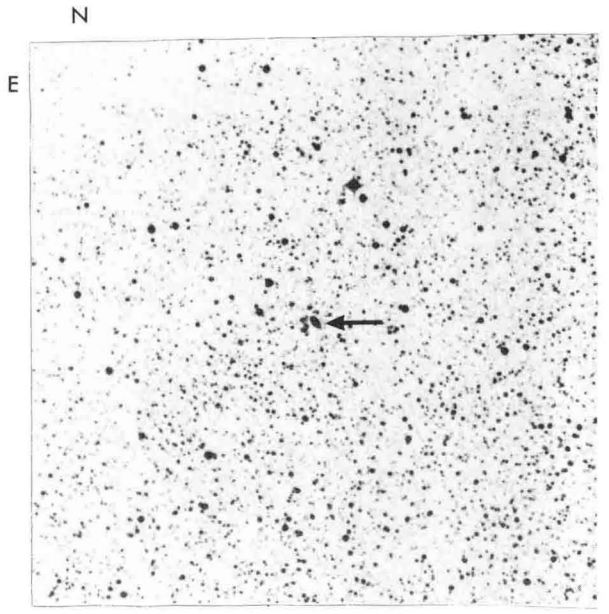
356.8-05.4 H 2-35 ESO B 394



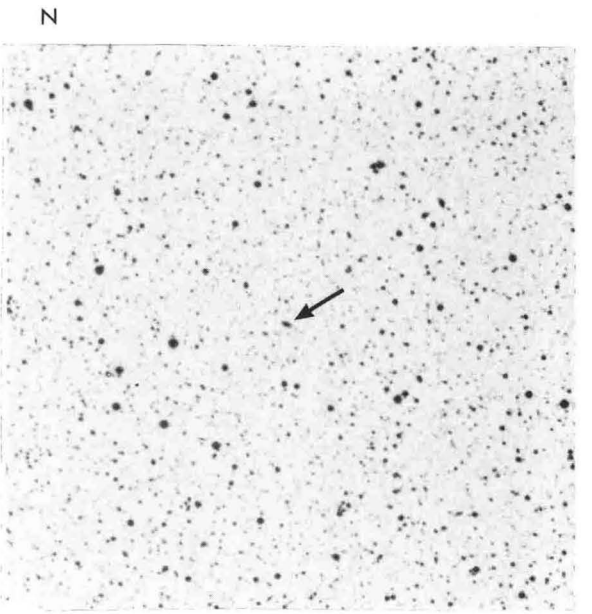
356.8-11.7 Lo 17 SRC J 395



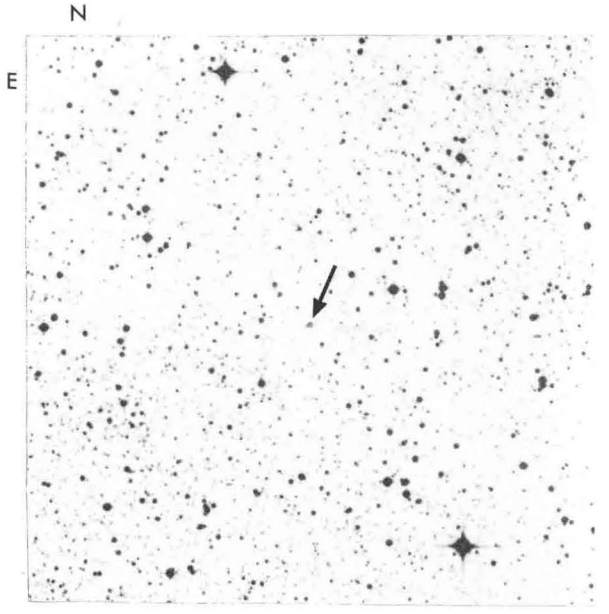
356.9+04.4 M 3-38 SRC J 454



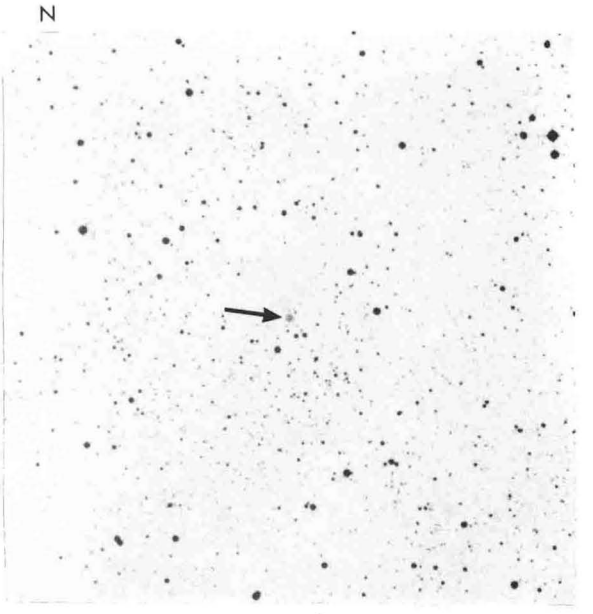
356.9+04.5 M 2-11 SRC J 454



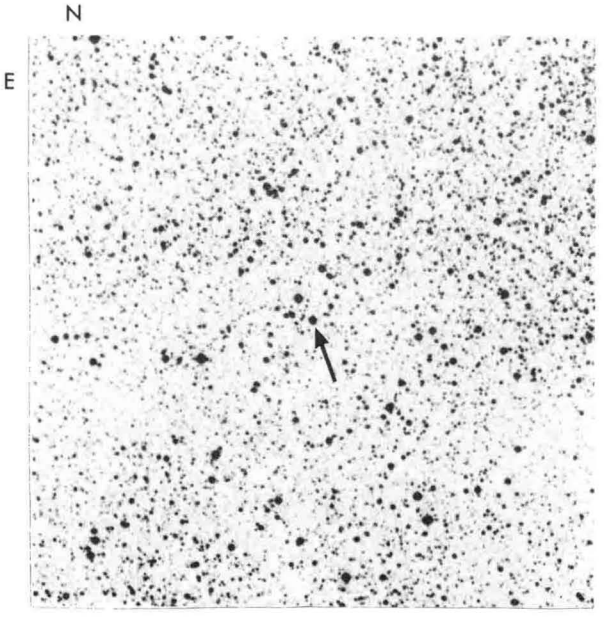
356.9-05.8 M 2-24 ESO B 394



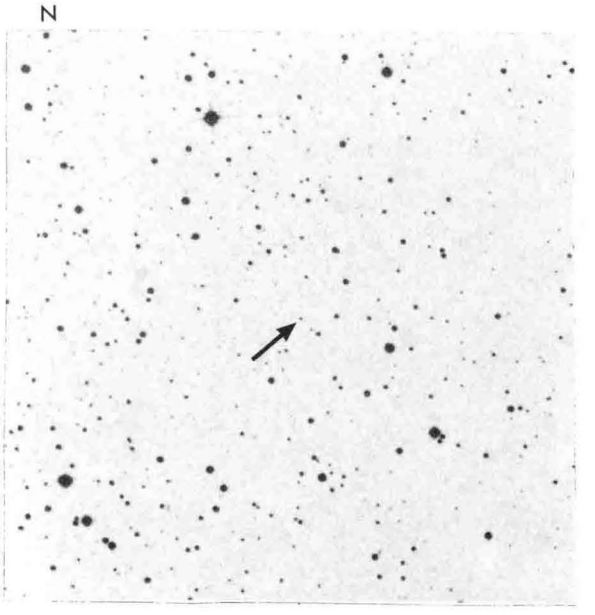
357.0+02.4 M 4- 4 SRC J 454



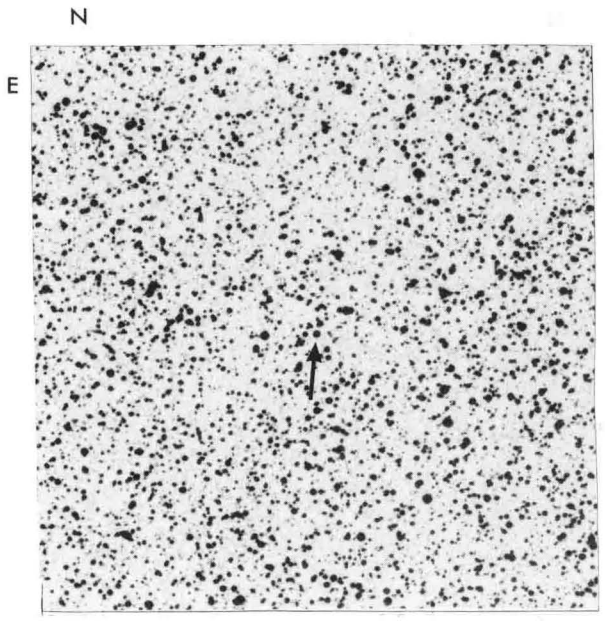
357.1+04.4 TeJu 18 SRC J 454



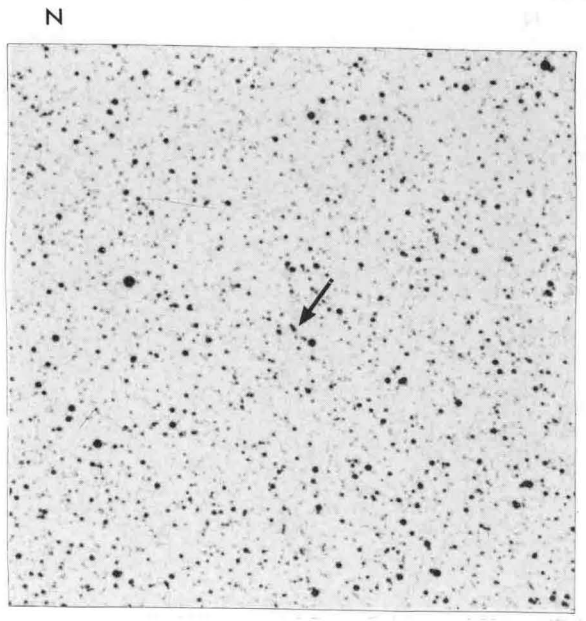
357.1+03.6 M 3- 7 SRC J 454



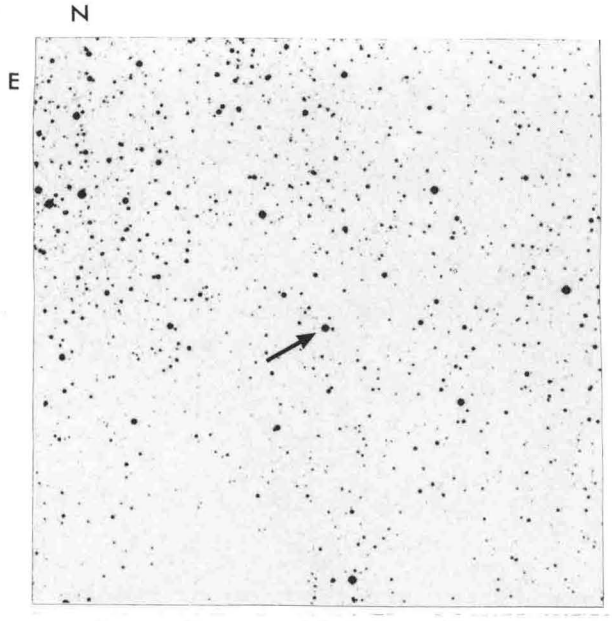
357.1+01.9 Th 3-24 ESO B 455



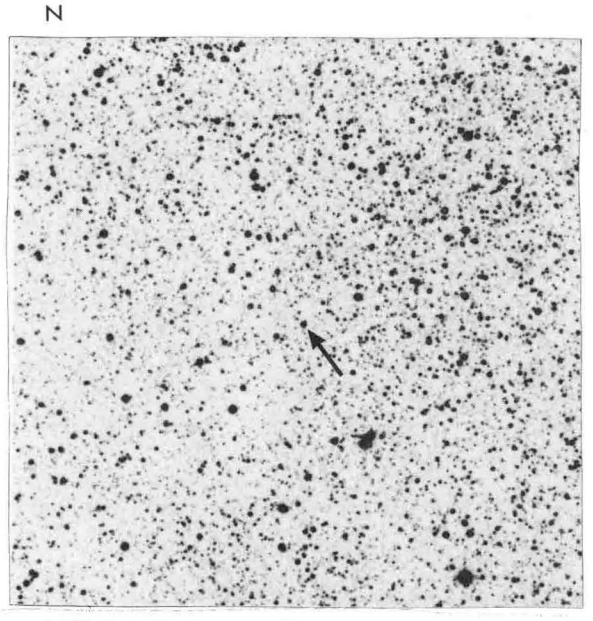
357.1-04.7 H 1-43 ESO R 394



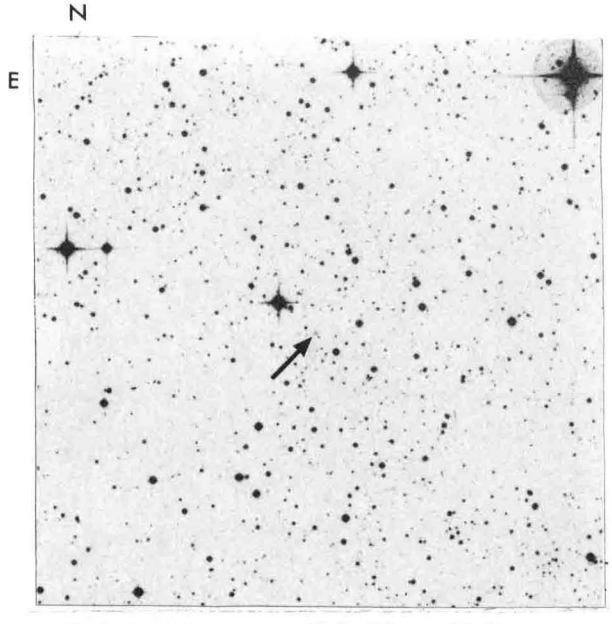
357.1-06.1 M 3-50 ESO B 394



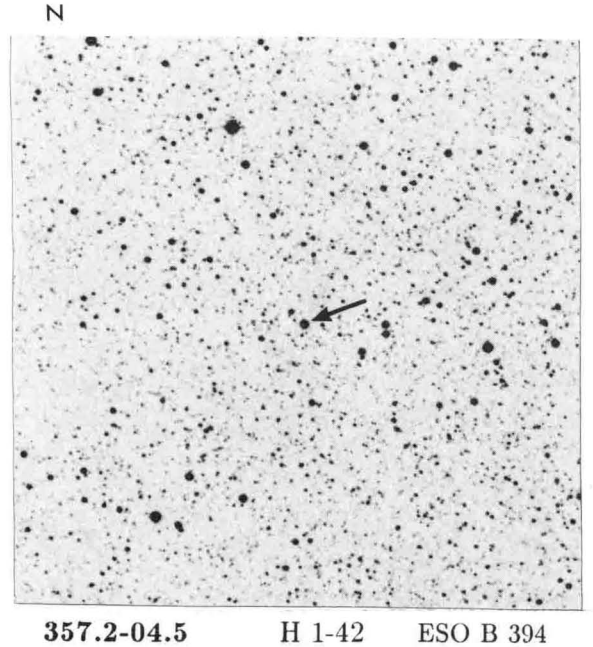
357.2+07.4 M 4- 3 SRC J 519



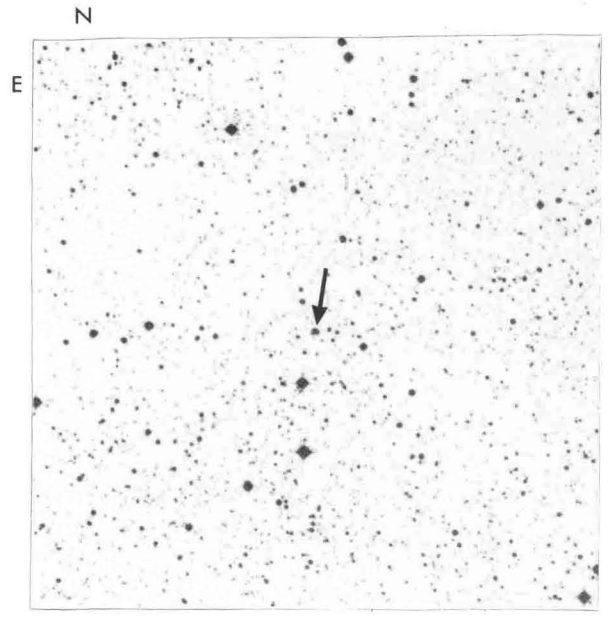
357.2+02.0 H 2-13 ESO R 455



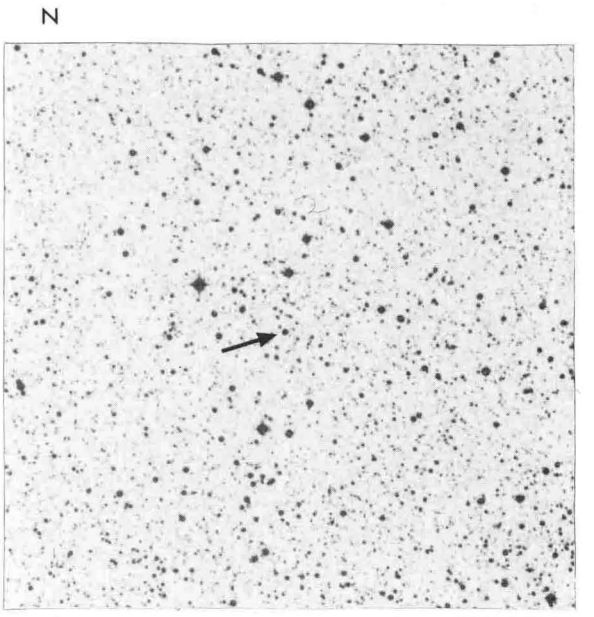
357.2+01.4 Al 2- H SRC J 455



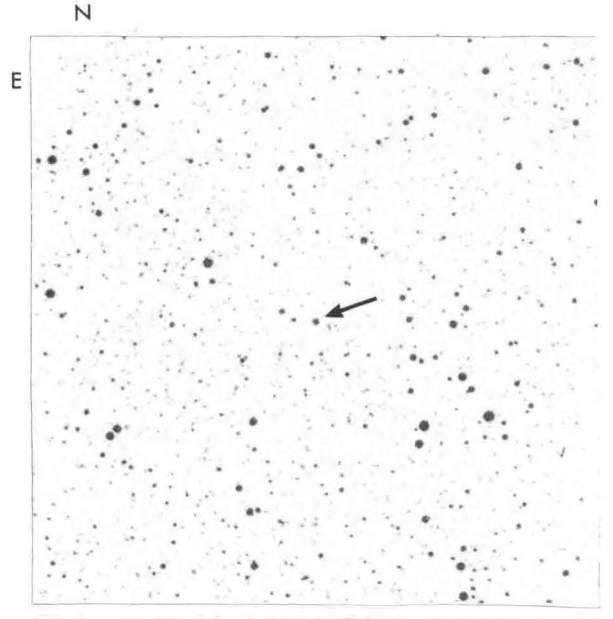
357.2-04.5 H 1-42 ESO B 394



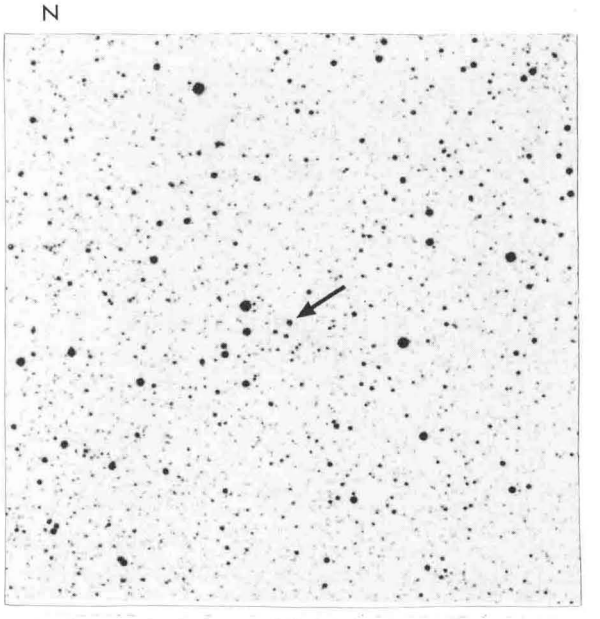
357.3+04.0 H 2- 7 SRC J 454



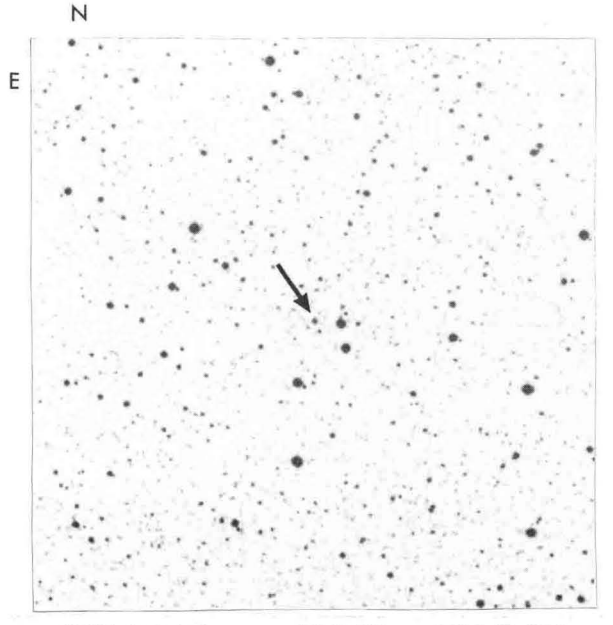
357.3+03.3 M 3-41 SRC J 454



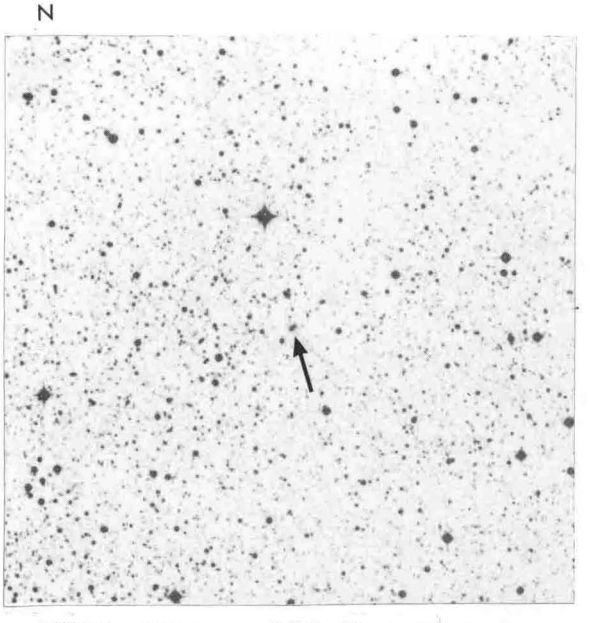
357.4-03.2 M 2-16 ESO B 394



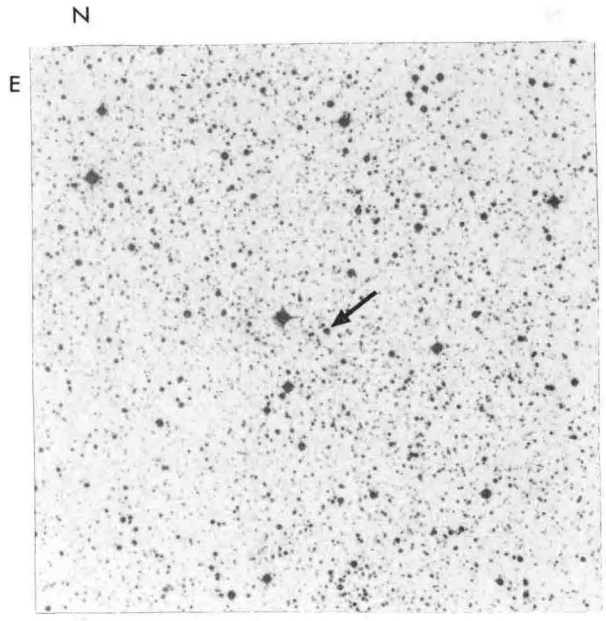
357.4-03.5 M 2-18 ESO B 394



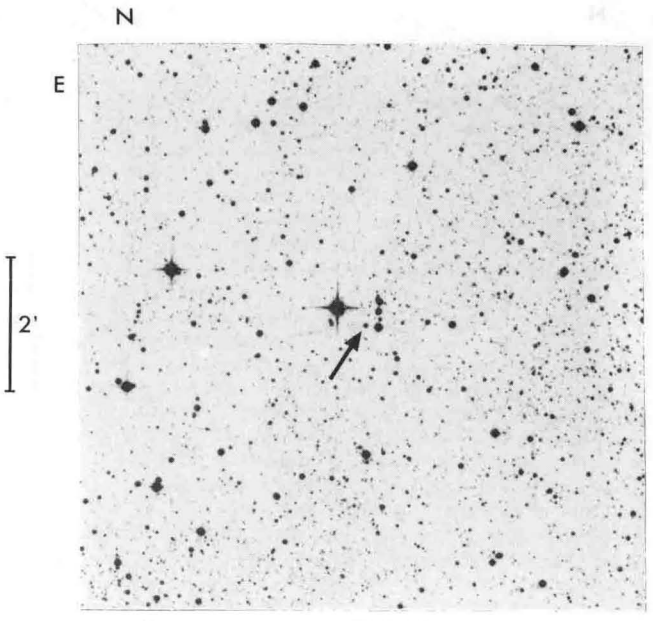
357.4-04.6 M 2-22 ESO B 394



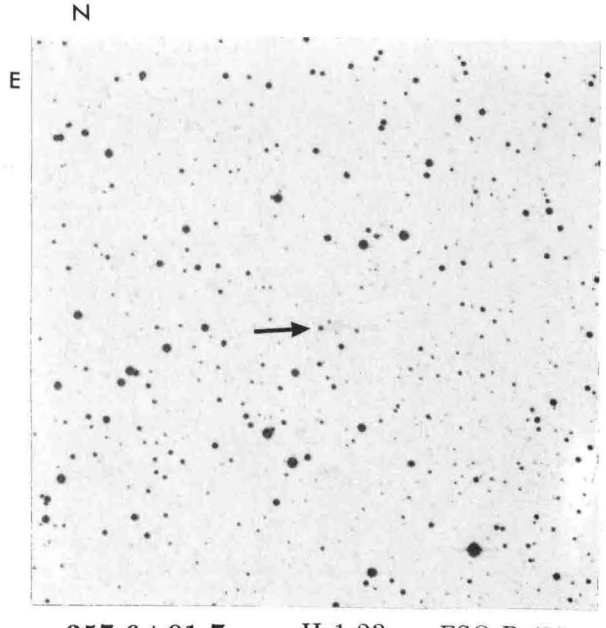
357.5+03.2 M 3-42 SRC J 454



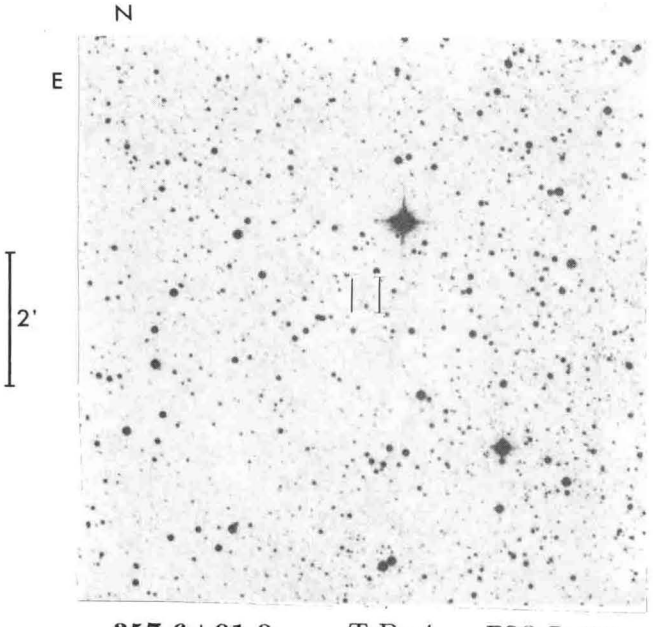
357.5+03.1 Th 3-16 SRC J 454



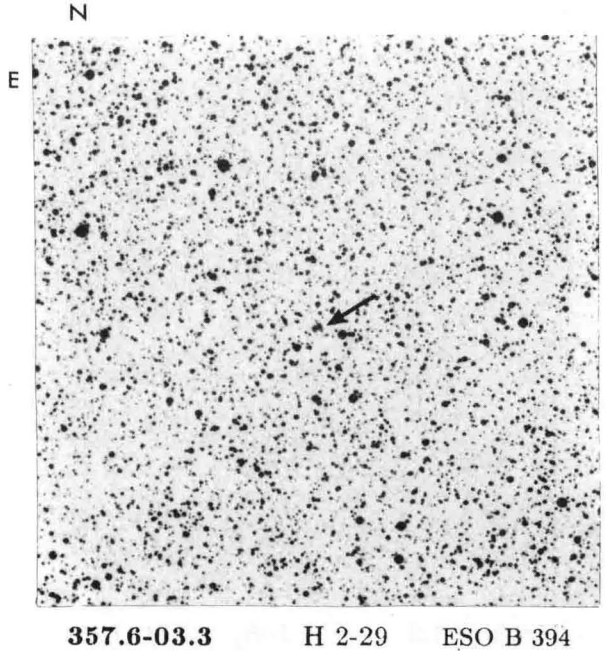
357.6+02.6 H 1-18 SRC J 455



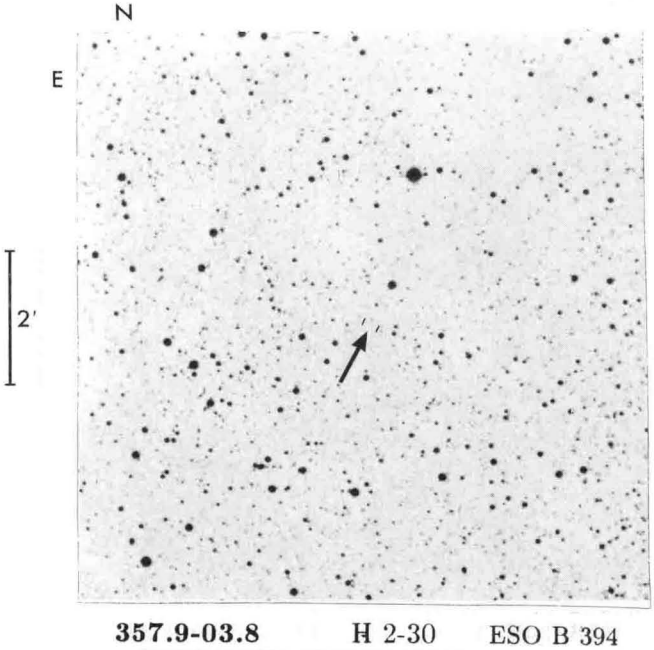
357.6+01.7 H 1-23 ESO B 455



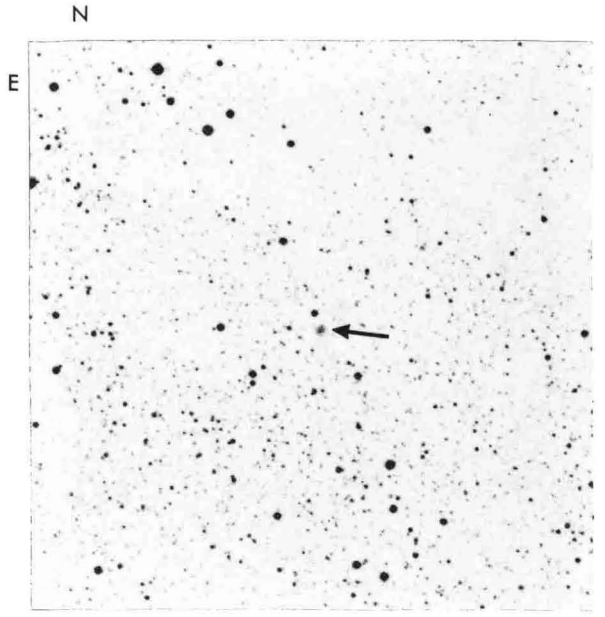
357.6+01.0 TrBr 4 ESO R 455



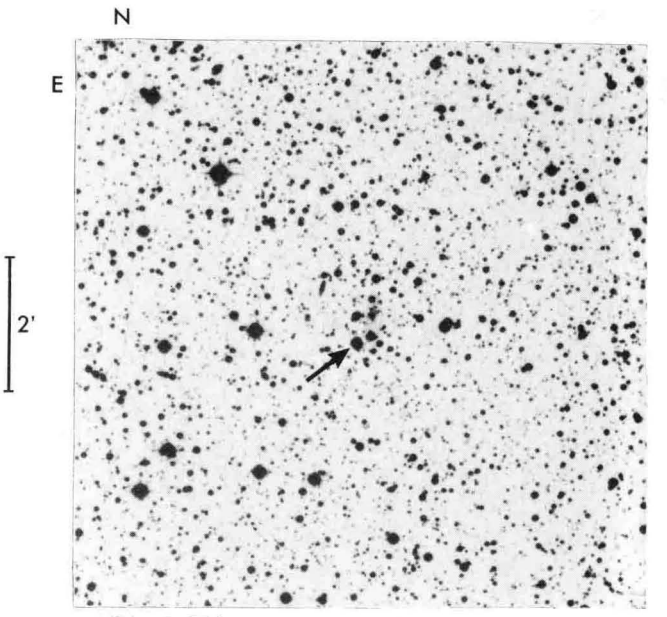
357.6-03.3 H 2-29 ESO B 394



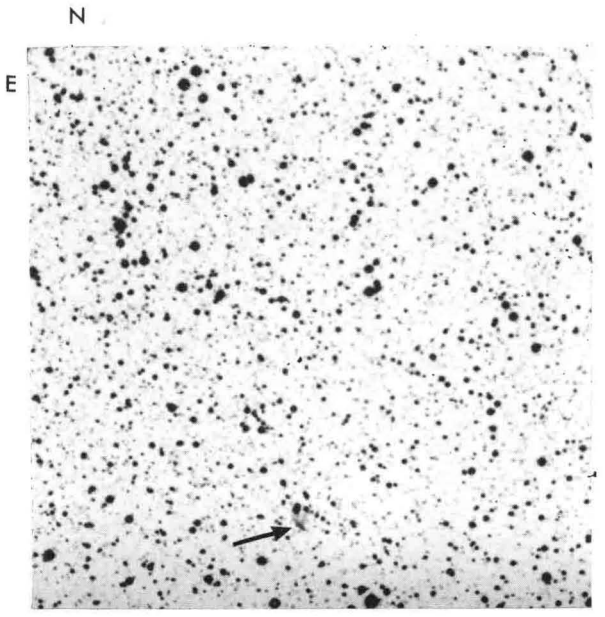
357.9-03.8 H 2-30 ESO B 394



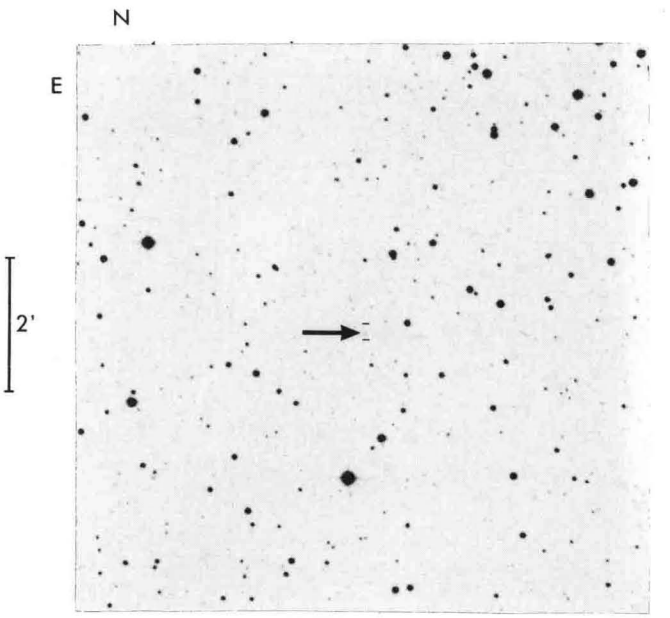
357.9-05.1 M 1-34 ESO B 394



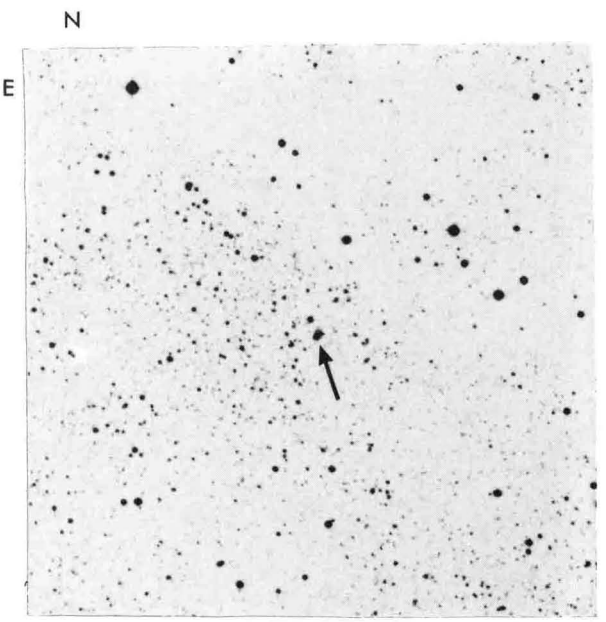
358.0+09.3 Th 3- 1 SRC J 518



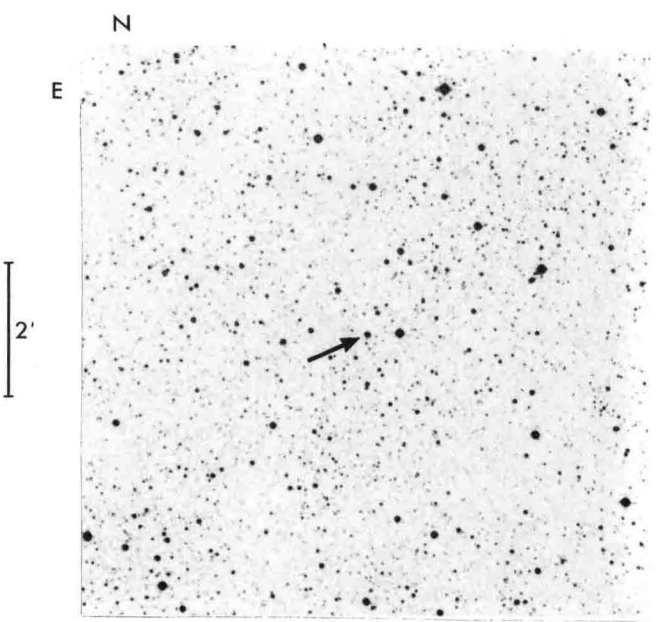
358.0+07.5 TeJu 8 ESO R 519



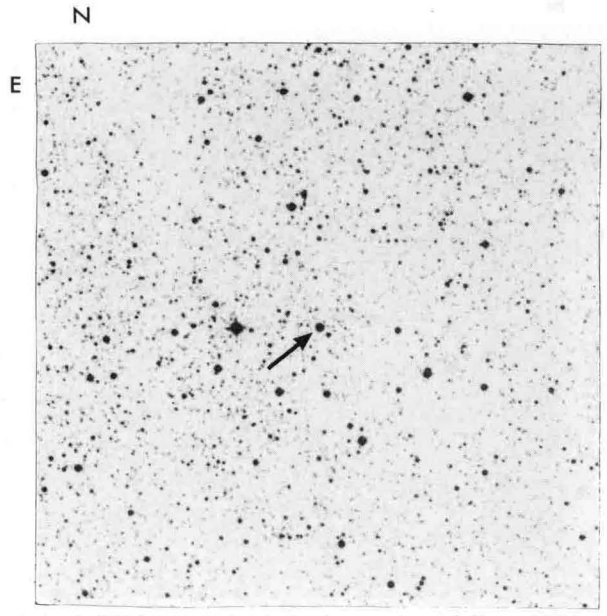
358.0+02.6 Th 3-23 ESO B 455



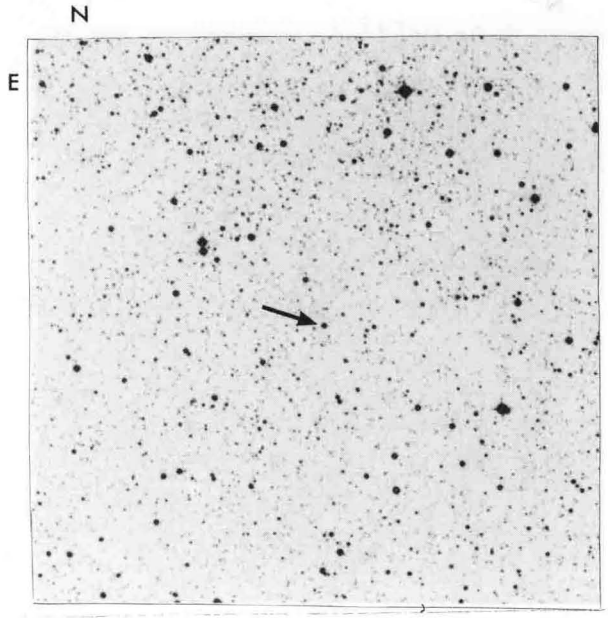
358.0-05.1 Pe 1-11 ESO B 394



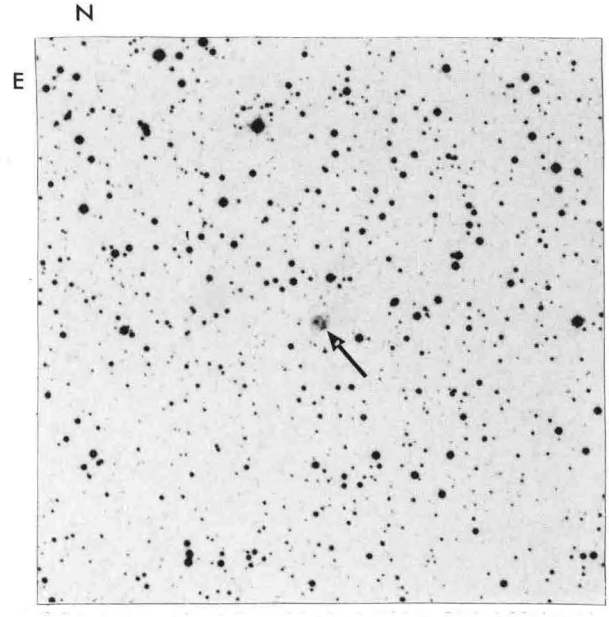
358.2+04.2 M 3- 8 SRC J 454



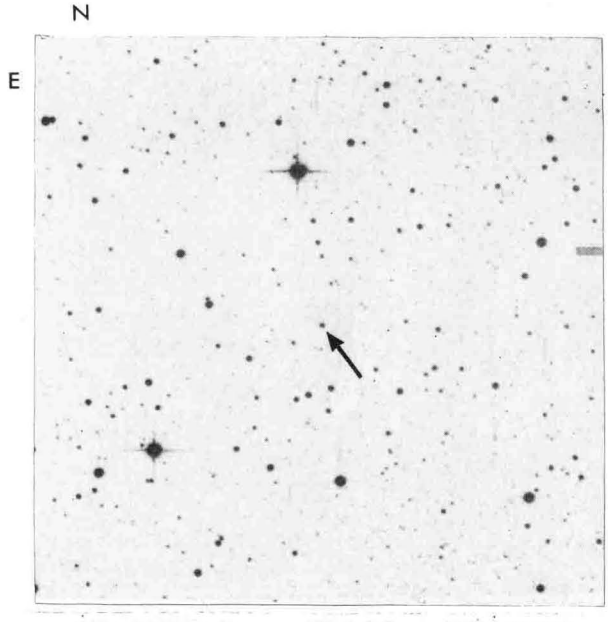
358.2+03.6 M 3-10 SRC J 454



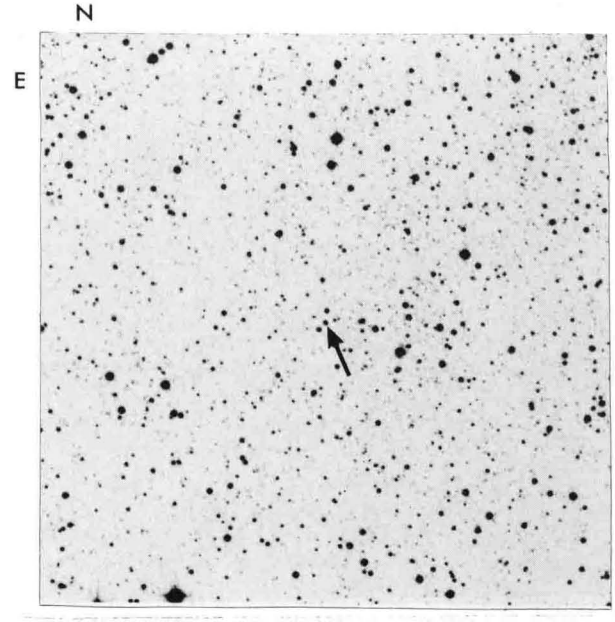
358.2+03.5 H 2-10 SRC J 454



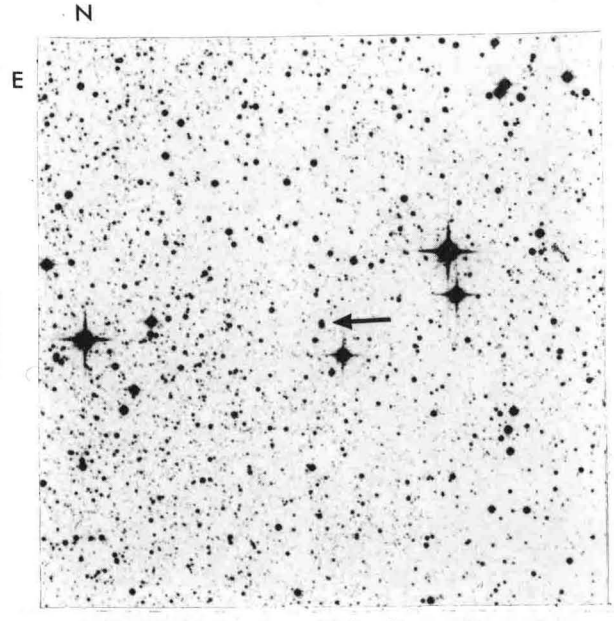
358.2-01.1 Bl D ESO R 455



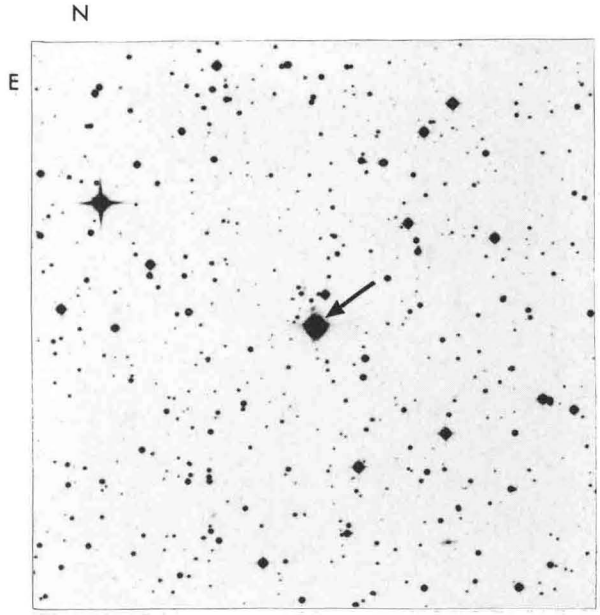
358.3+03.0 H 1-17 ESO B 455



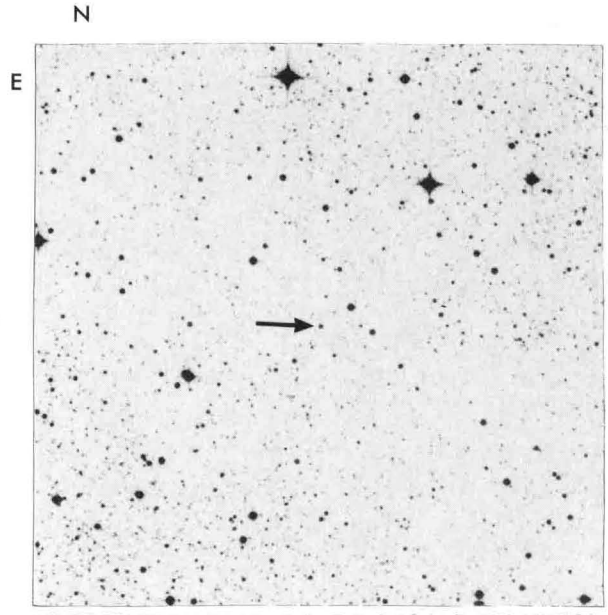
358.3+01.2 Bl B ESO R 455



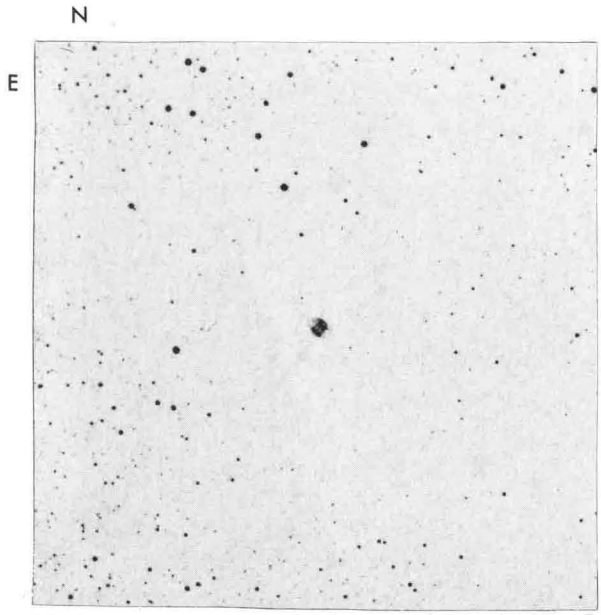
358.3-02.5 Al 2- O SRC J 455



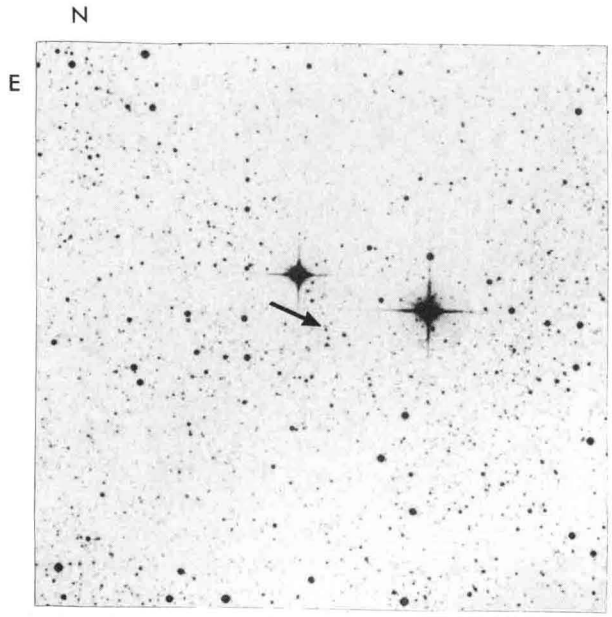
358.3-21.6 IC 1297 SRC J 337



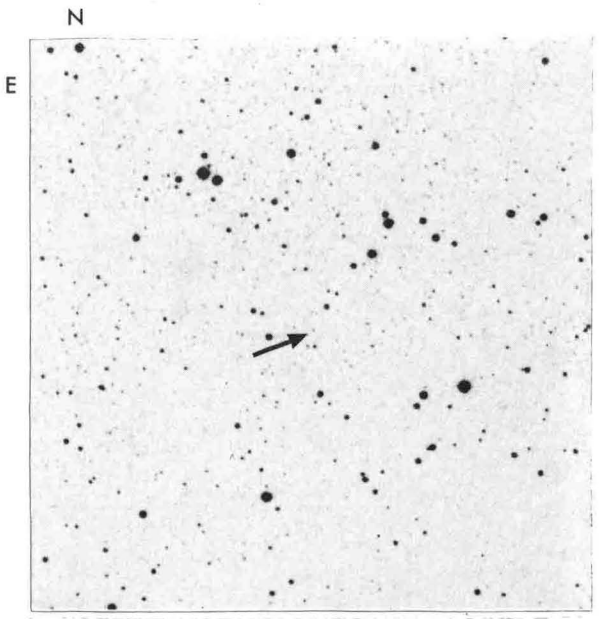
358.4+03.3 Th 3-19 SRC J 454



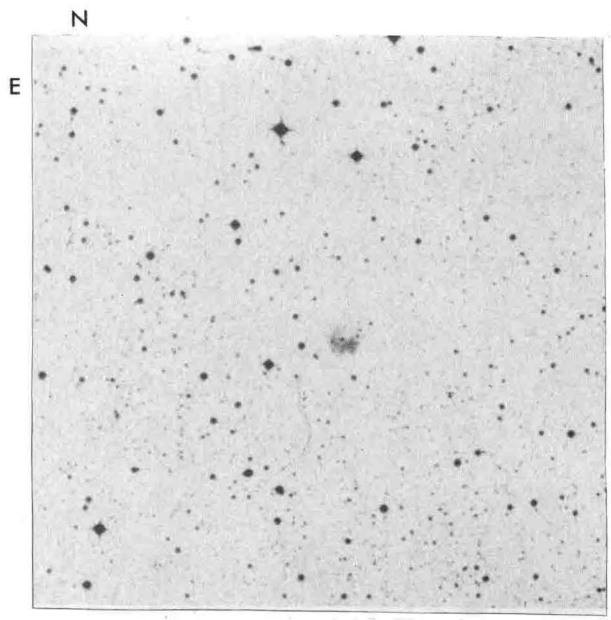
358.5+05.4 M 3-39 SRC J 519



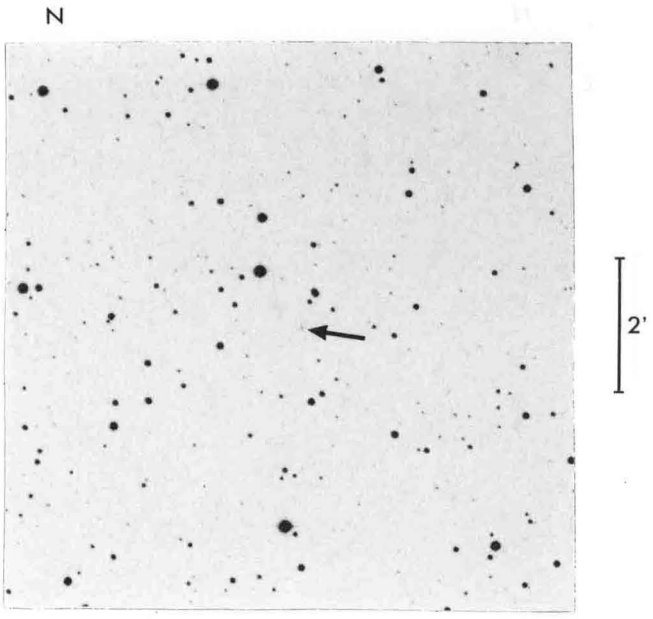
358.5+03.7 Al 2- B SRC J 454



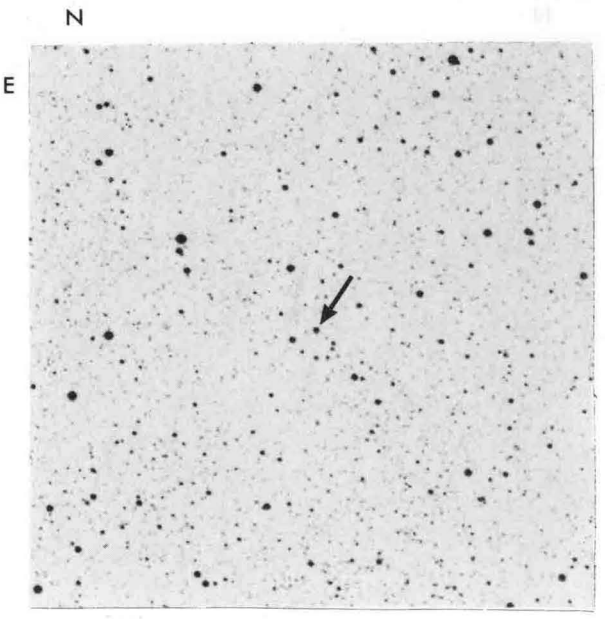
358.5+02.9 Al 2- F ESO R 455



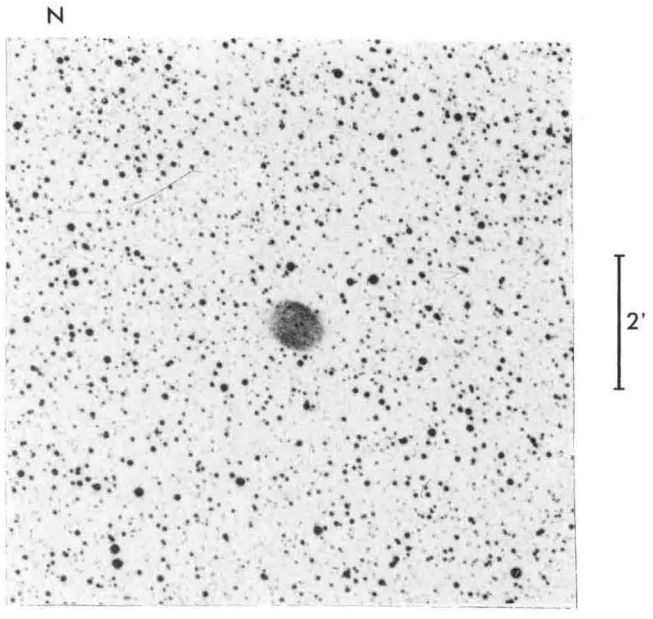
358.5+02.6 HDW 8 SRC J 455



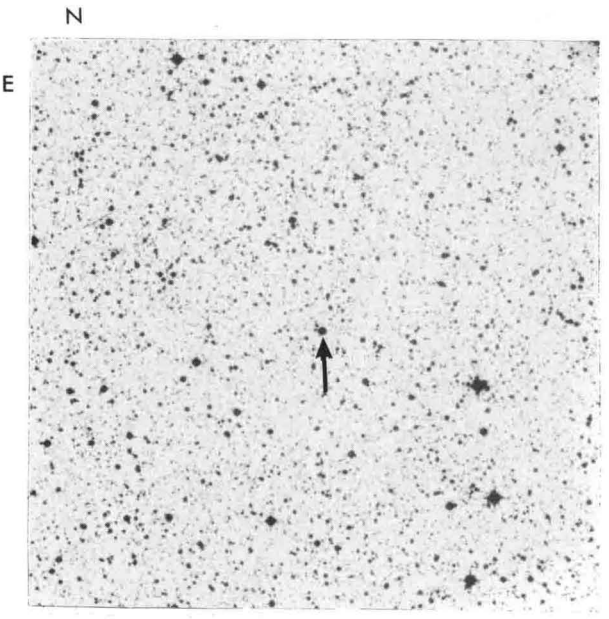
358.5-02.5 M 4- 7 ESO B 455



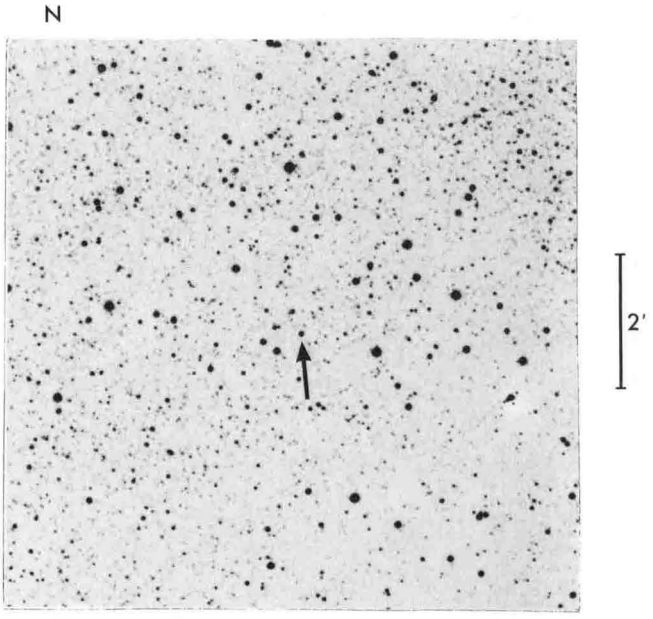
358.5-04.2 H 1-46 ESO B 456



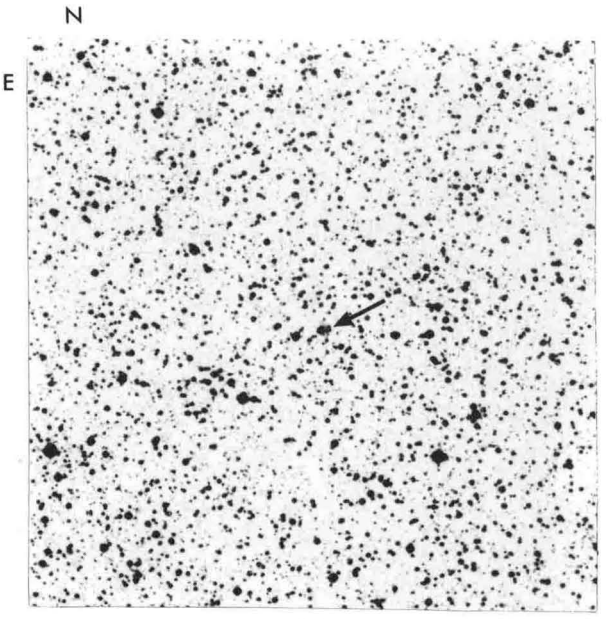
358.5-07.3 NGC 6563 ESO B 394



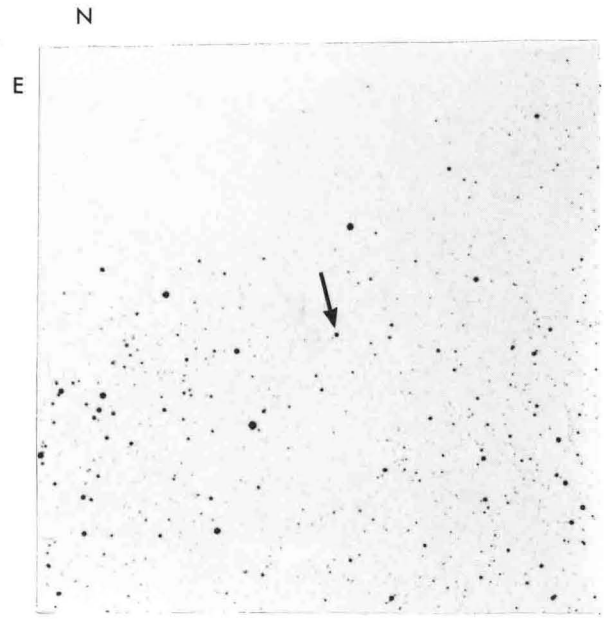
358.6+07.8 M 3-36 SRC J 519



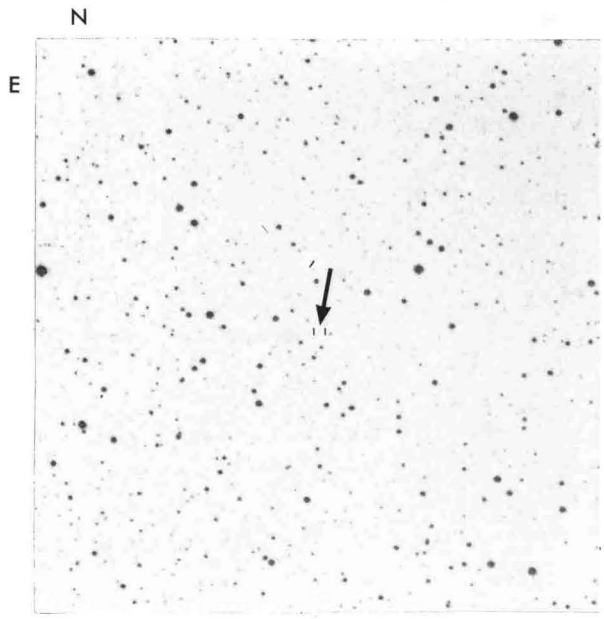
358.6+01.8 M 4- 6 ESO R 455



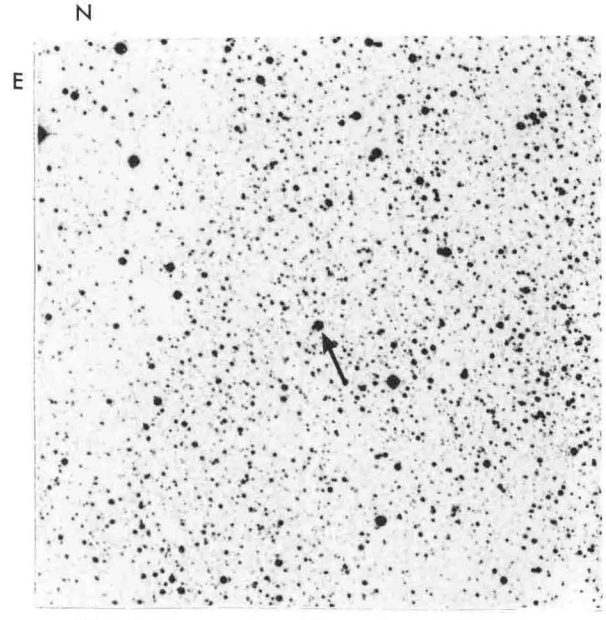
358.6-05.5 M 3-51 ESO R 394



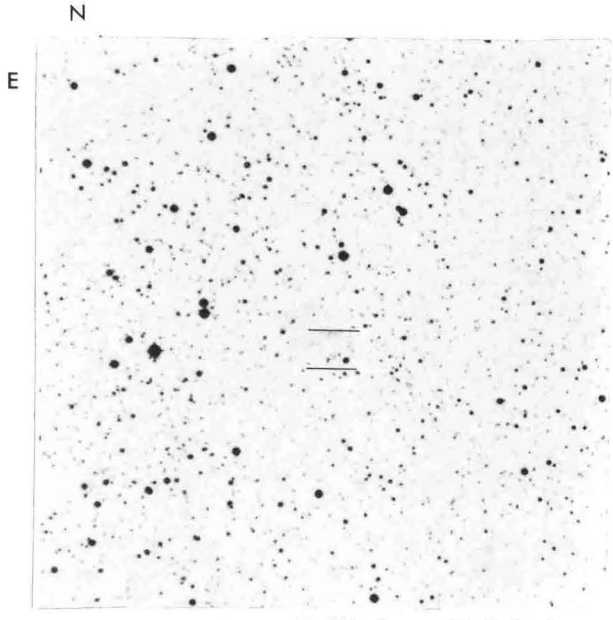
358.7+05.2 M 3-40 SRC J 519



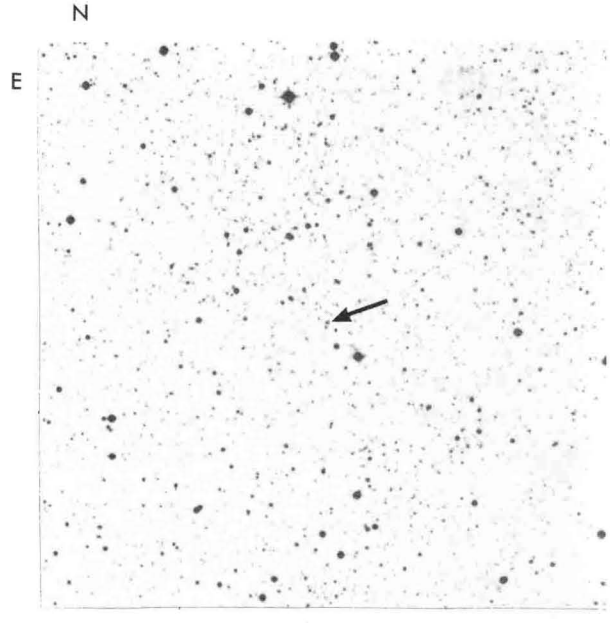
358.7-02.7 Al 2- R ESO B 456



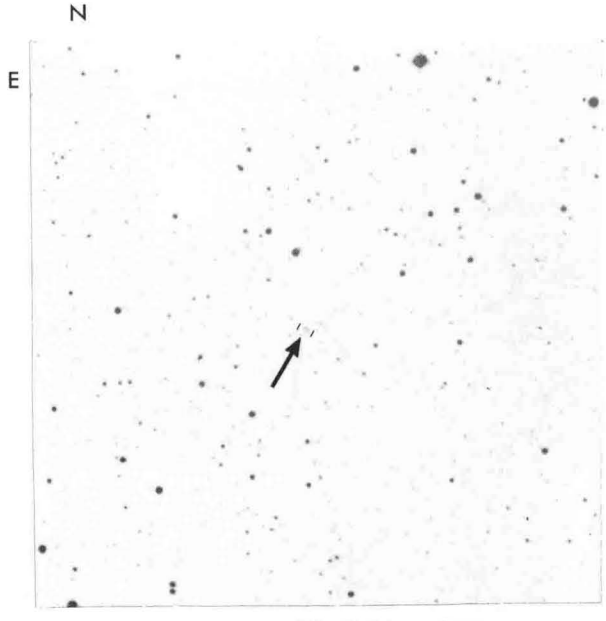
358.7-05.2 H 1-50 ESO B 394



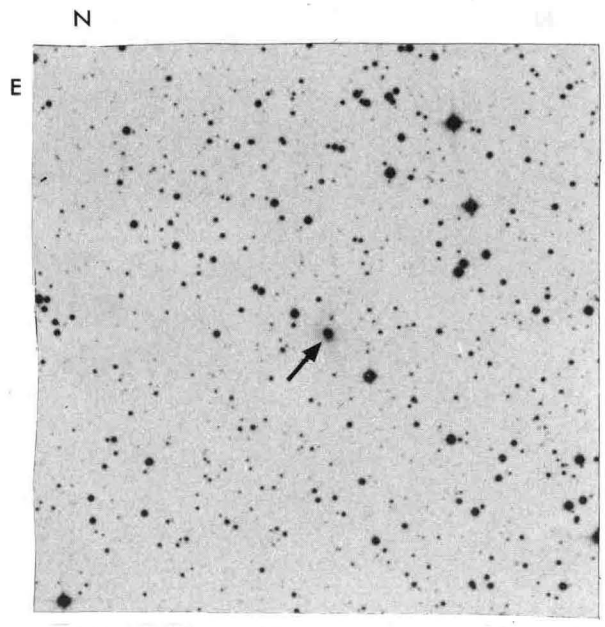
358.8+04.1 SaWe 2 SRC J 520



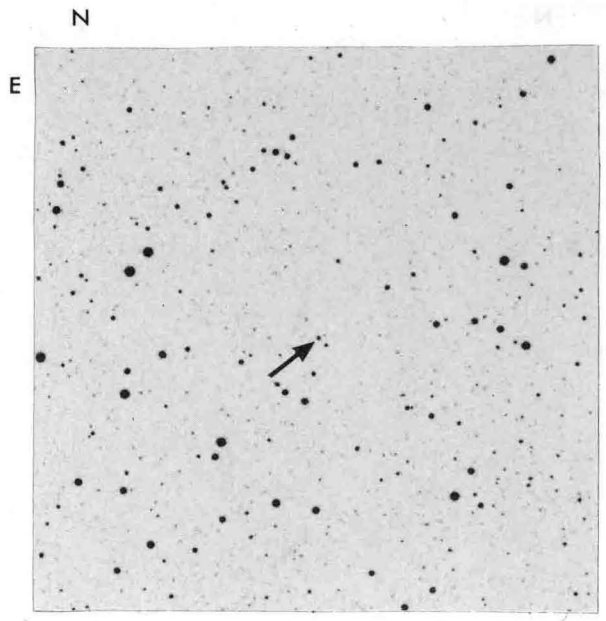
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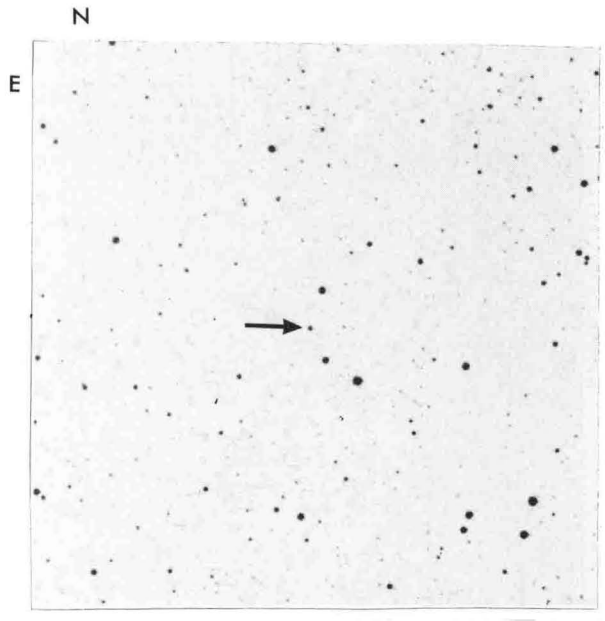
358.8+03.0 Th 3-26 ESO B 455



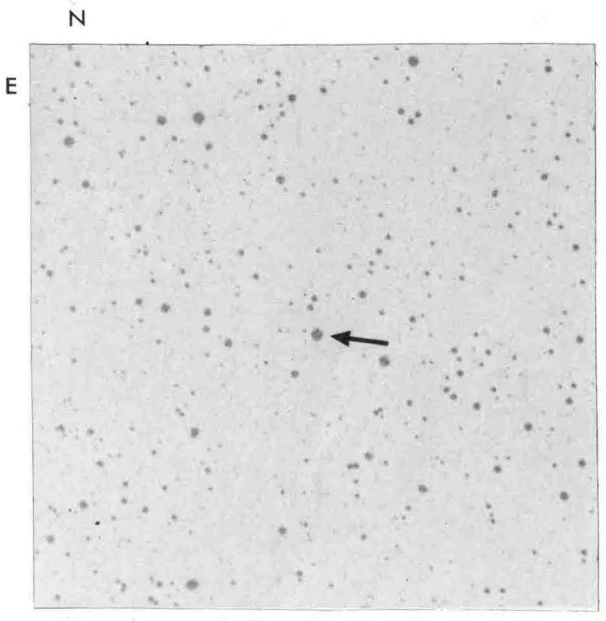
358.8+00.0 Te 2022 ESO R 455



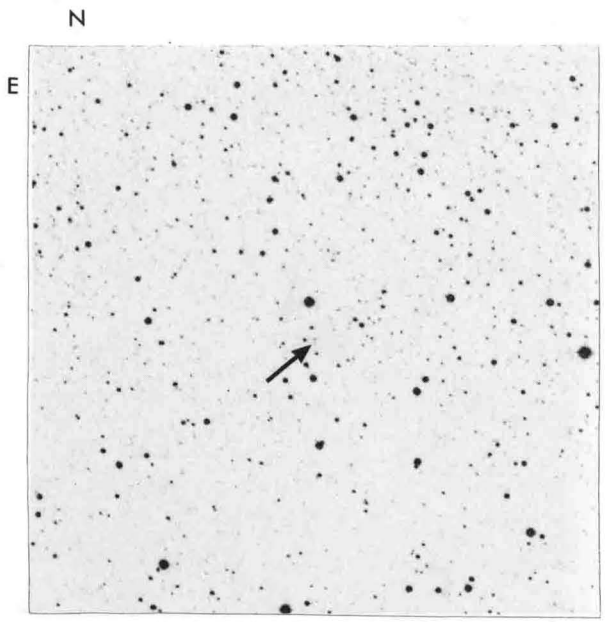
358.9+03.4 H 1-19 ESO B 455



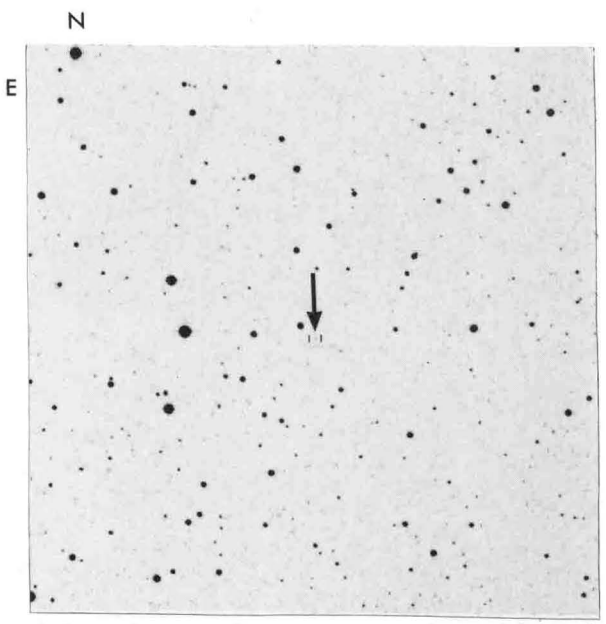
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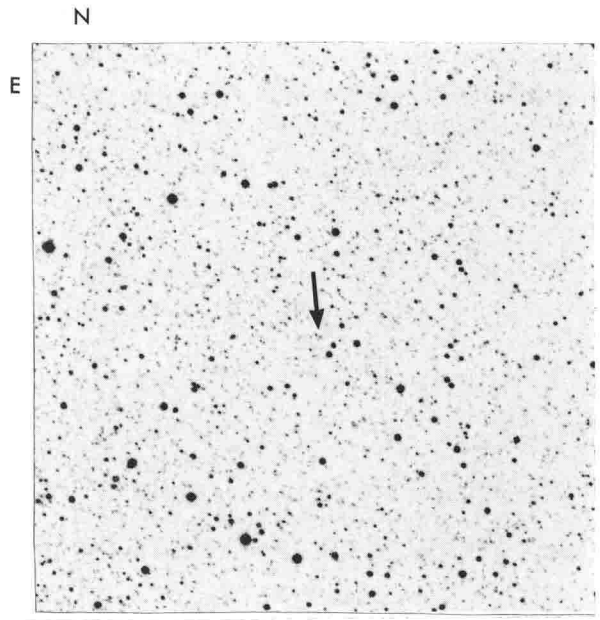
358.9 - 00.7 M 1-26 ESO B 455



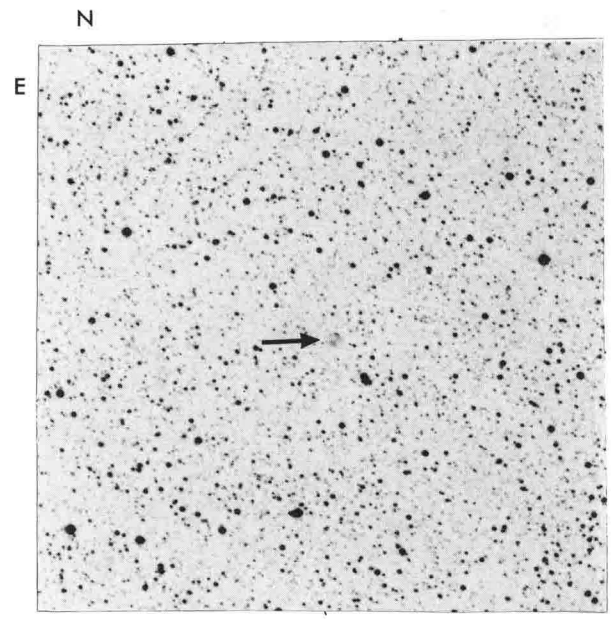
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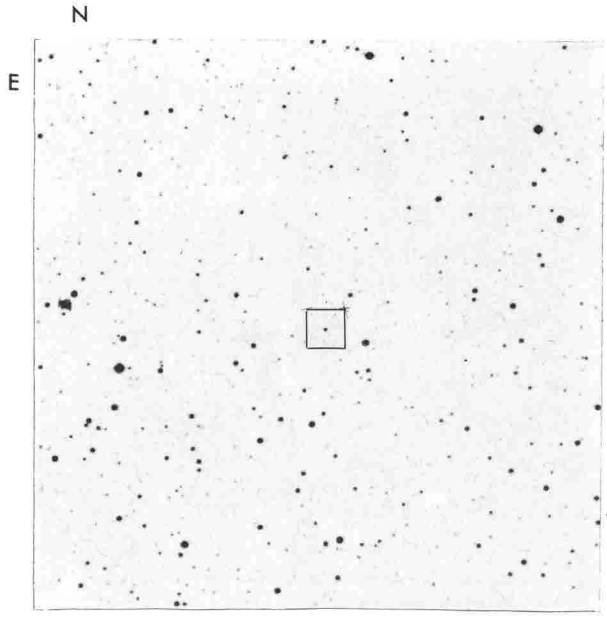
359.0+02.8 Al 2- G ESO B 455



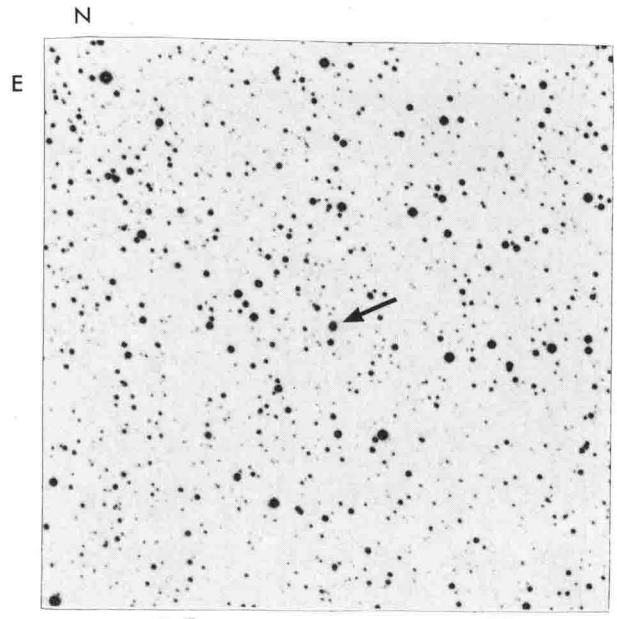
359.0-04.1 M 3-48 ESO B 456



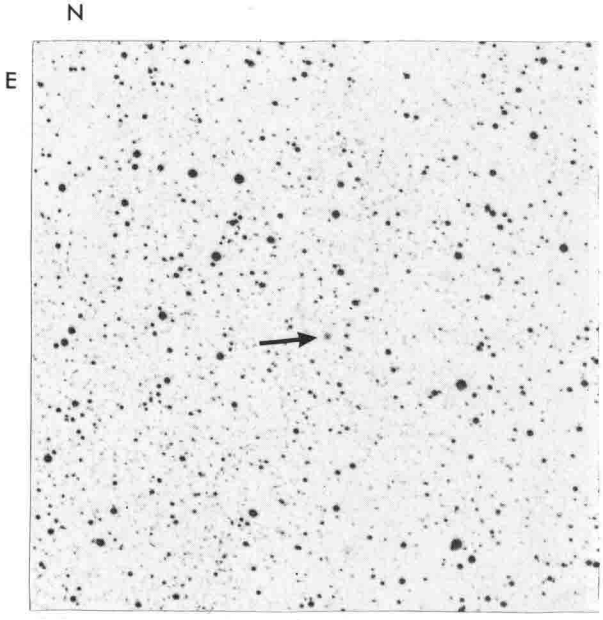
359.0-04.8 M 2-25 ESO B 456



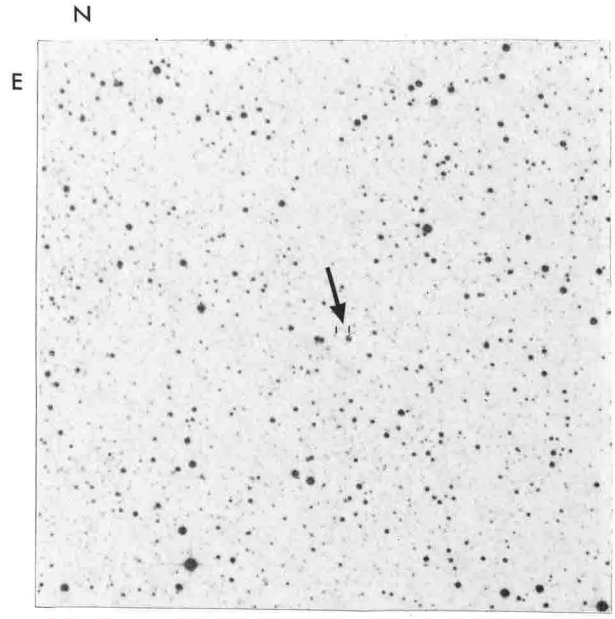
359.1+15.1 A 40 SRC J 586



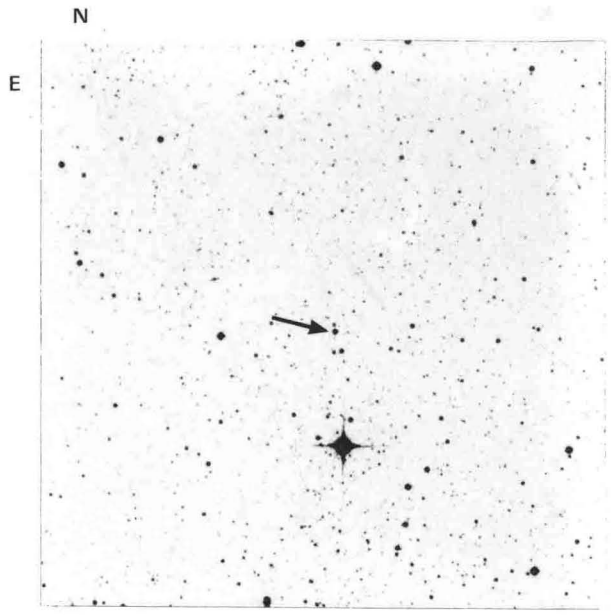
359.1-01.7 M 1-29 ESO B 455



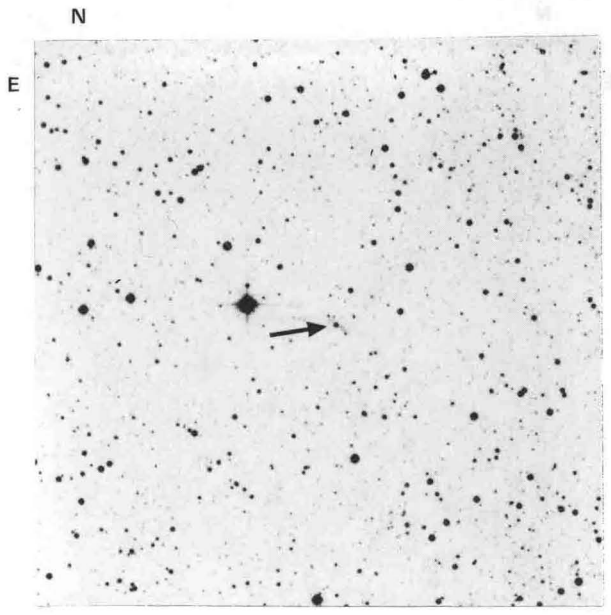
359.1-02.3 M 3-16 ESO B 456



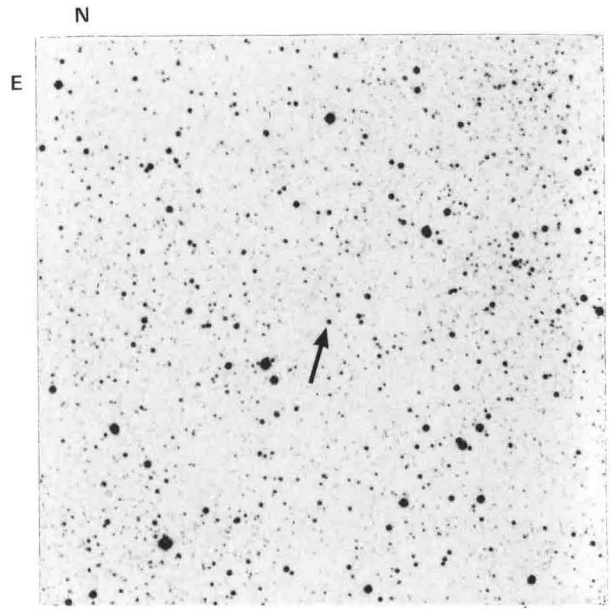
359.1-02.9 M 3-46 ESO B 456



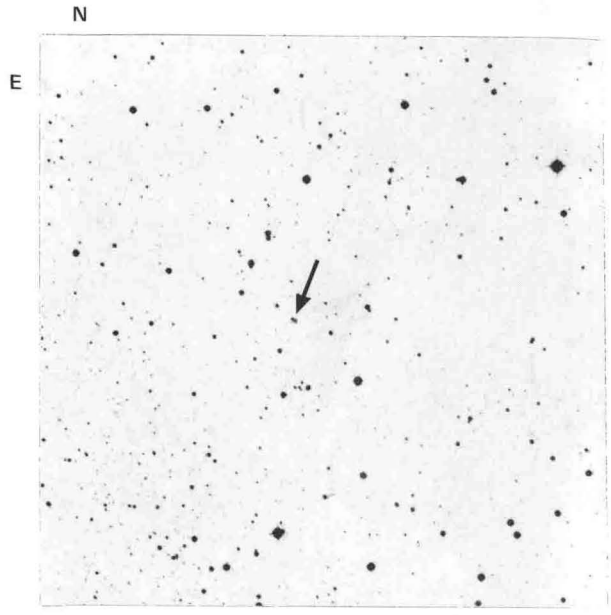
359.2+04.7 Th 3-14 SRC J 519



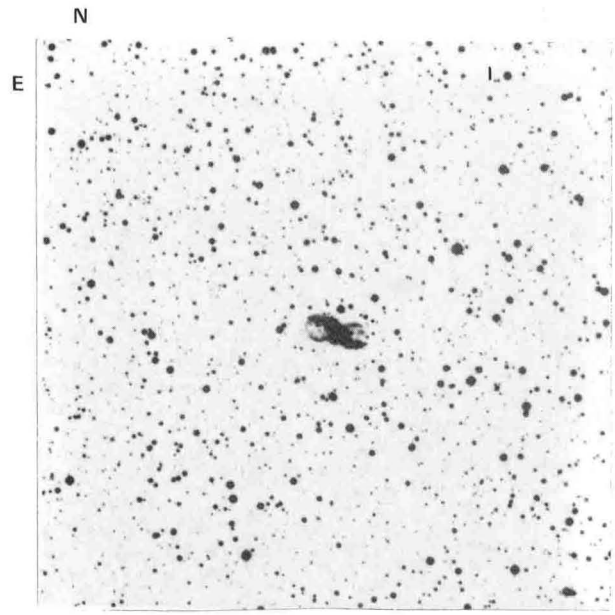
359.2+01.2 19W32 ESO B 455



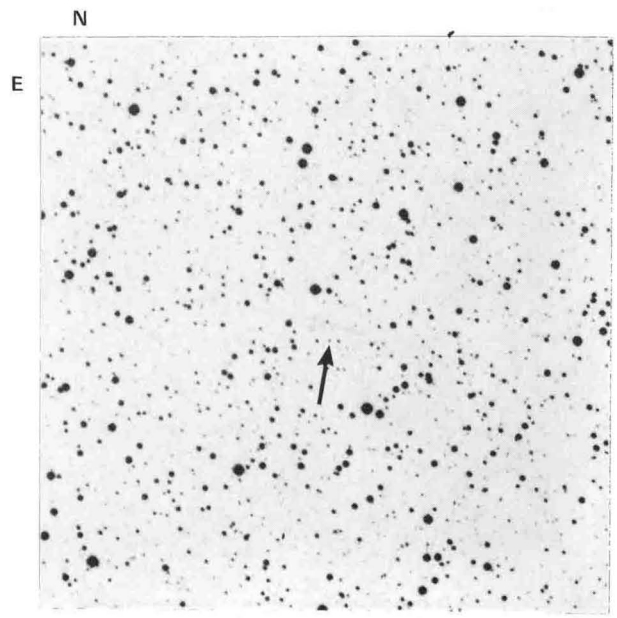
359.3+01.4 Th 3-35 ESO B 455



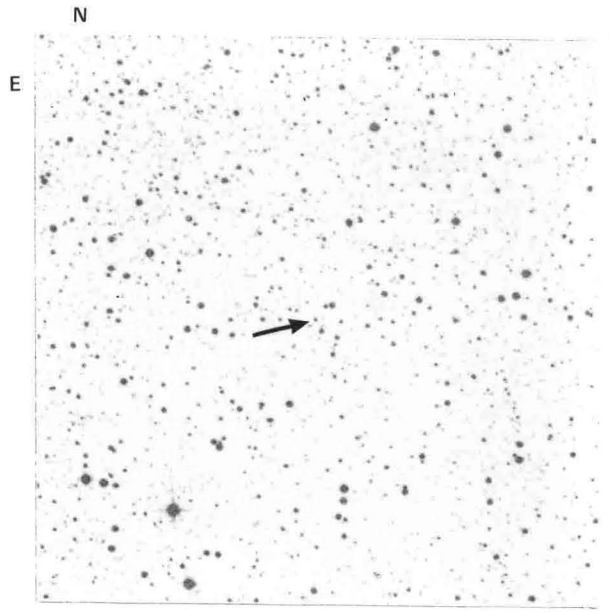
359.3+03.6 Al 2- E SRC J 455



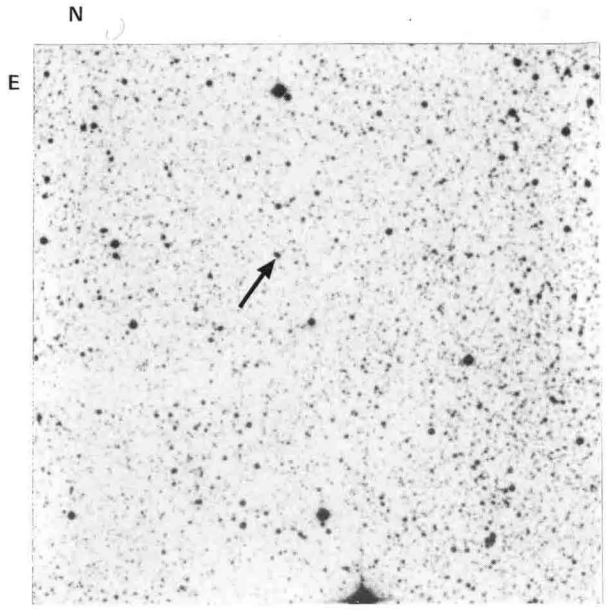
359.3 - 00.9 Hb 5 ESO R 455



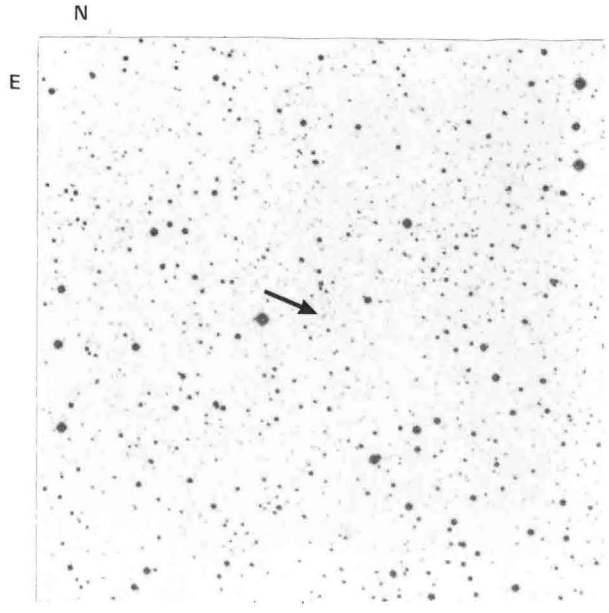
359.3-01.8 M 3-44 ESO B 455



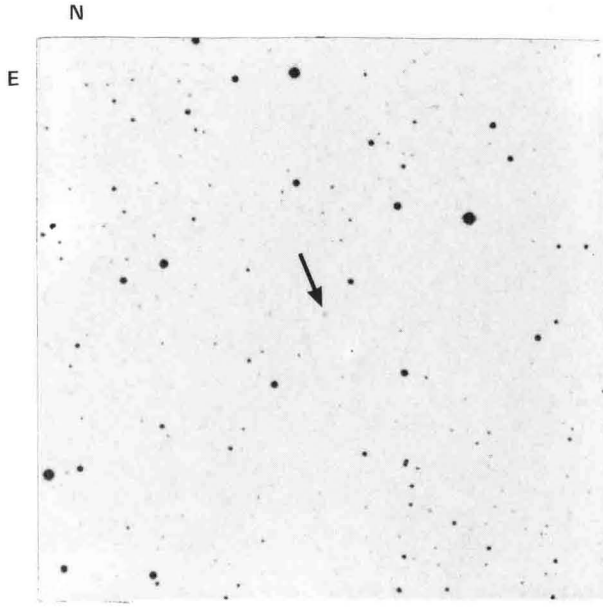
359.3-03.1 M 3-17 ESO B 456



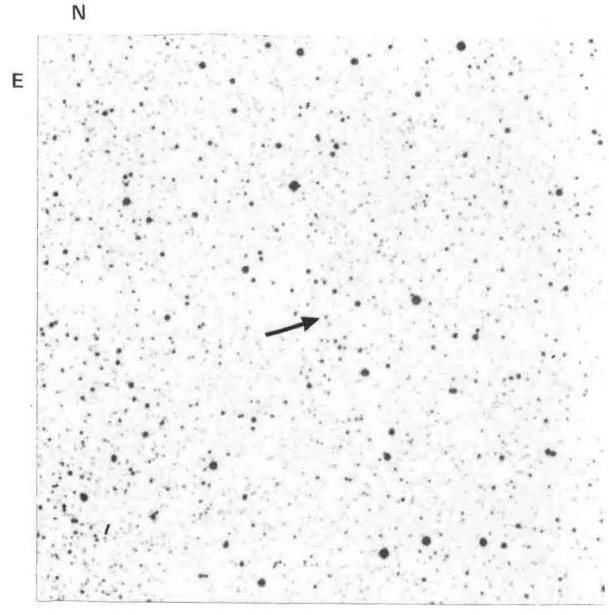
359.4+02.3 Th 3-32 ESO B 455



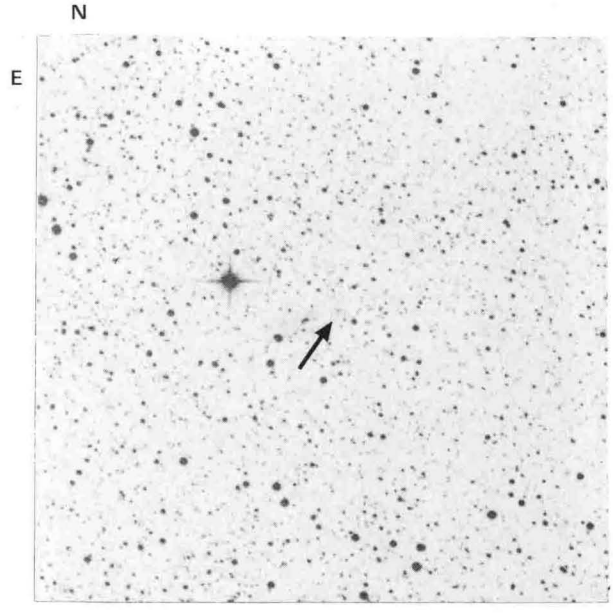
359.4-03.4 H 2-33 ESO B 456



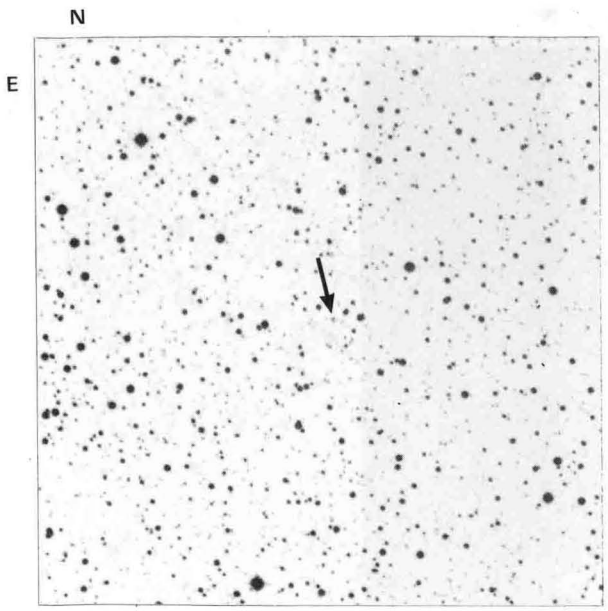
359.5+02.6 Al 2- K ESO B 455



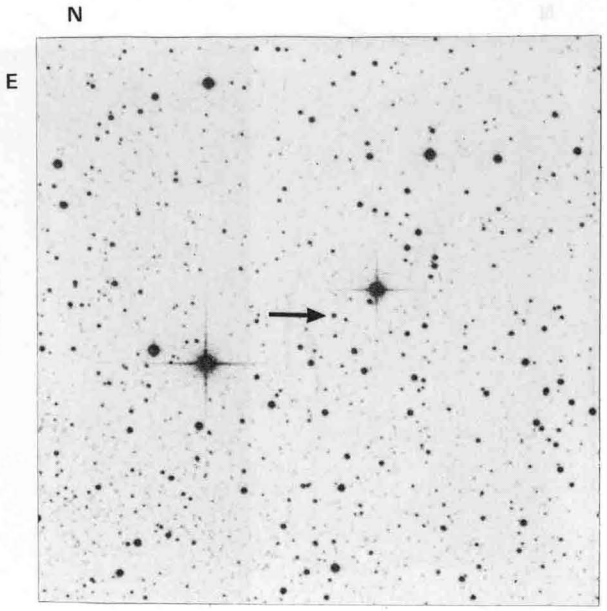
359.6+02.2 Al 2- I ESO R 455



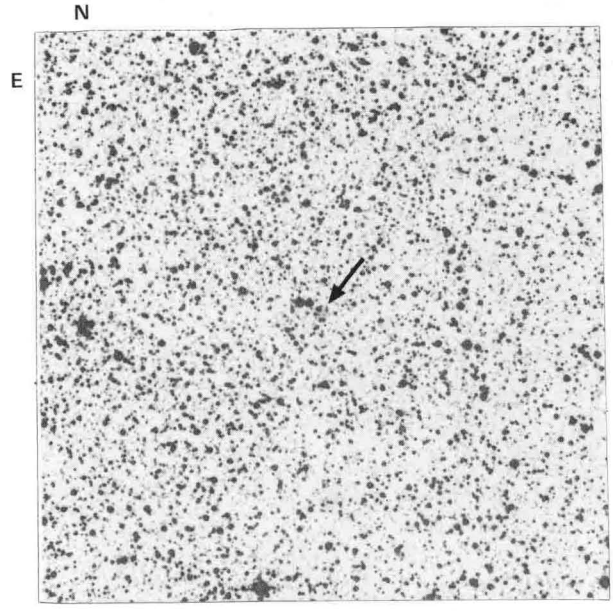
359.6-04.8 H 2-36 ESO B 456



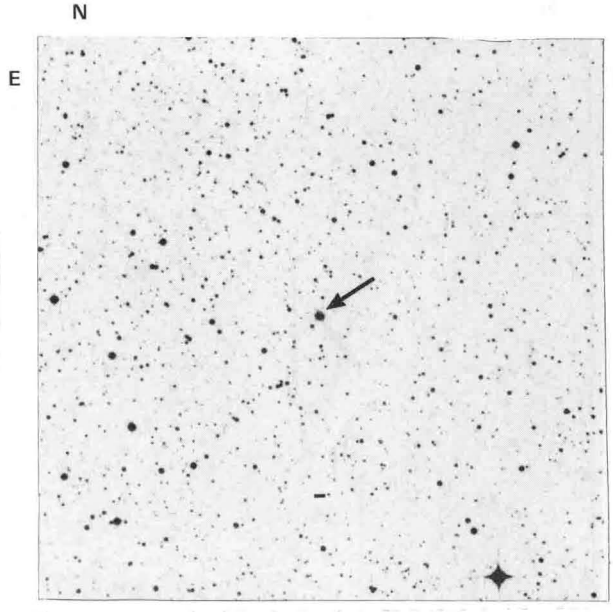
359.7-01.8 M 3-45 ESO B 455



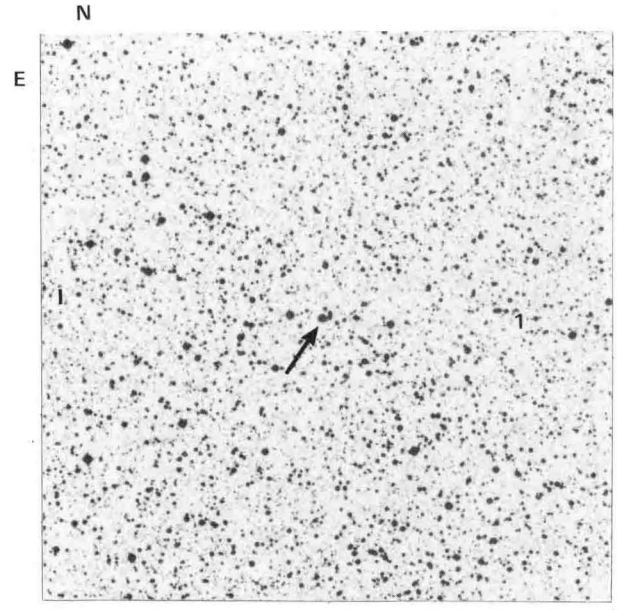
359.7-02.6 H 1-40 ESO B 456



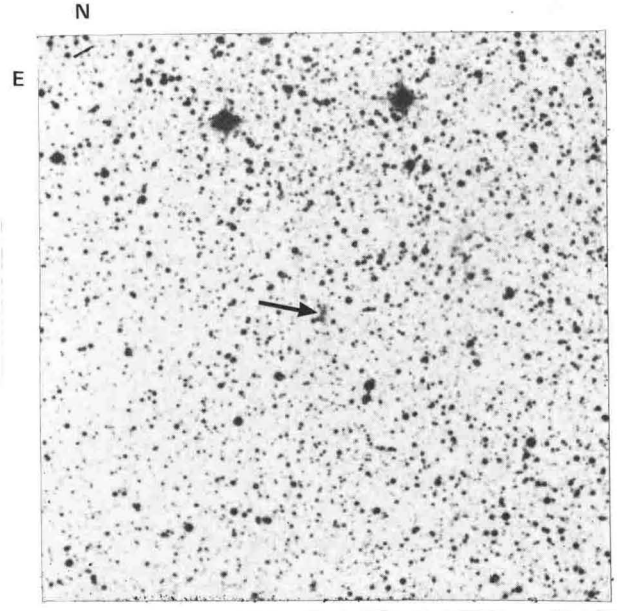
359.7-04.4 KFL 3 SRC J 456



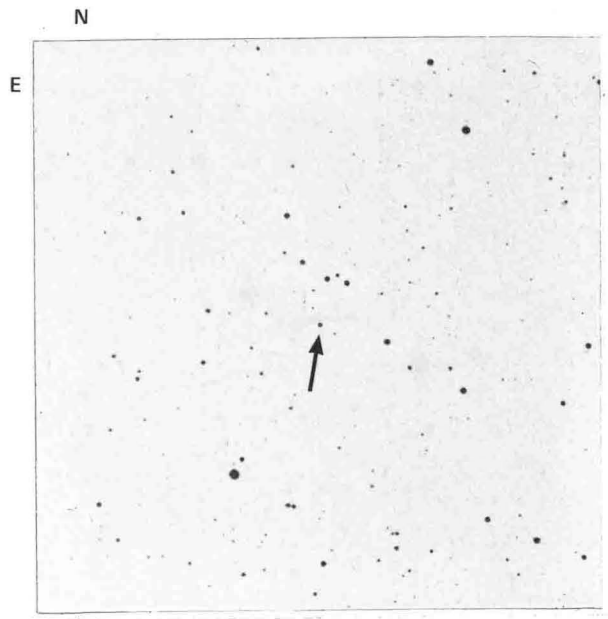
359.8+06.9 M 3-37 SRC J 519



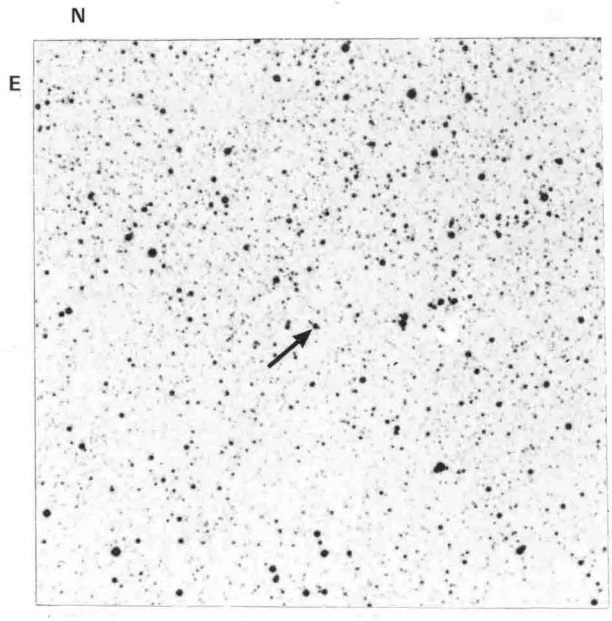
359.8+05.6 M 2-12 SRC J 519



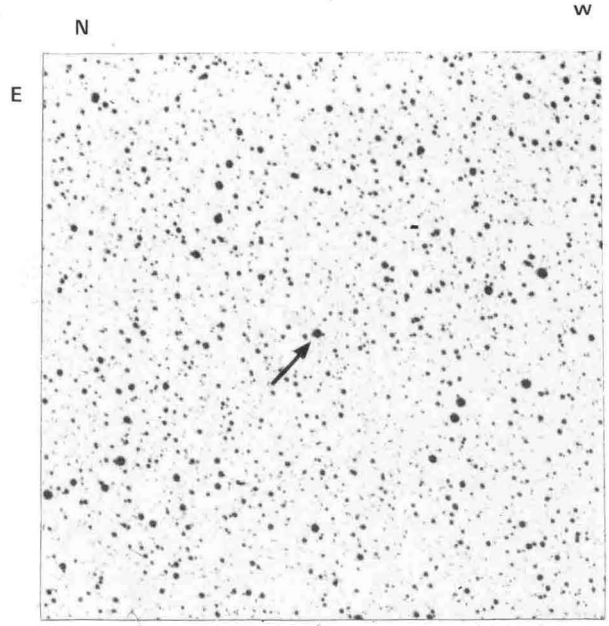
359.8+05.2 TeJu 19 ESO R 519



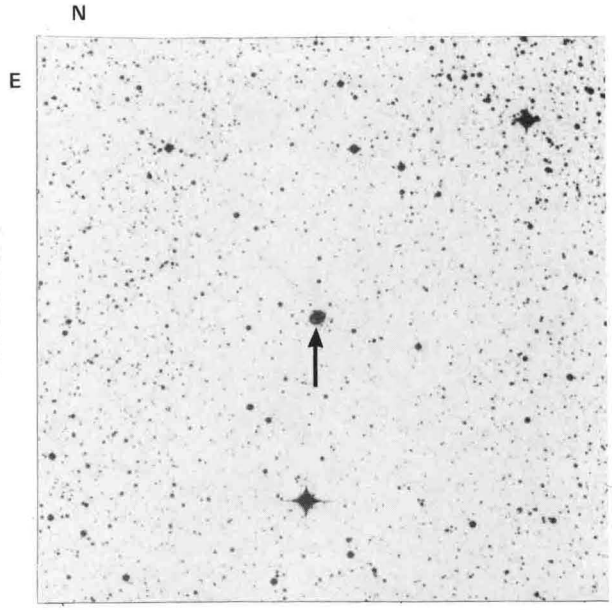
359.8+03.7 Th 3-25 SRC J 520



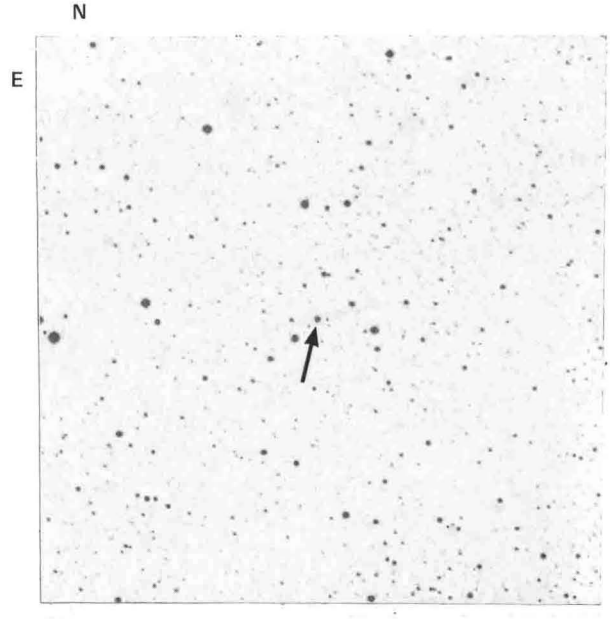
359.8+02.4 Th 3-33 ESO R 455



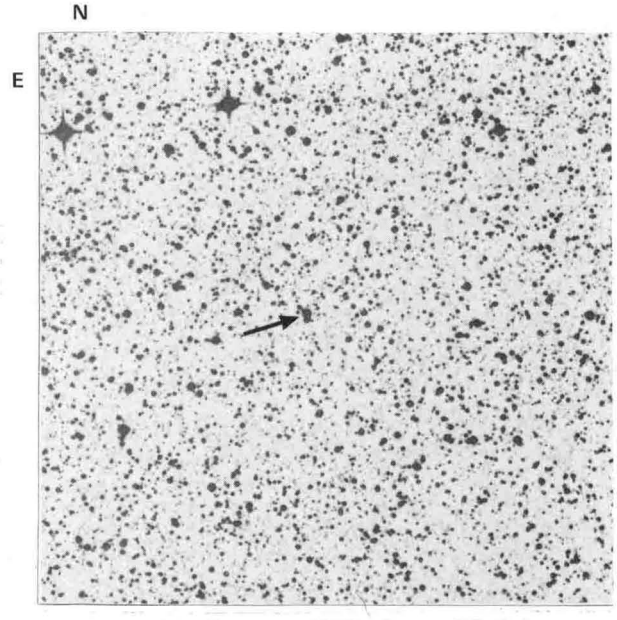
359.8-07.2 M 2-32 ESO B 394



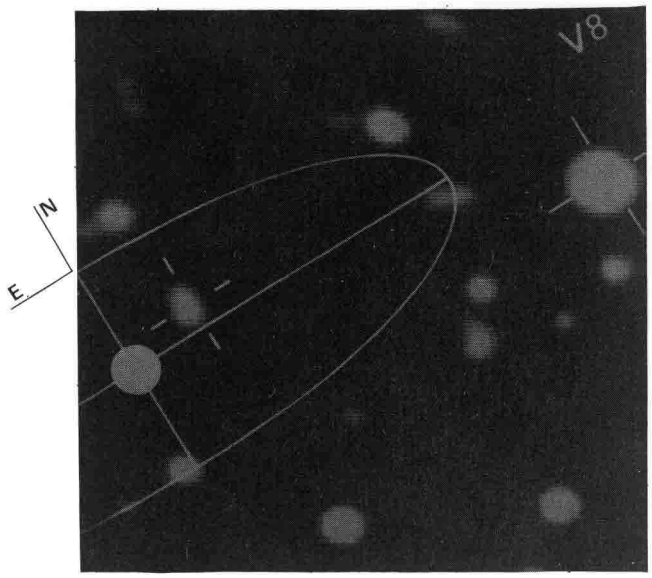
359.9+05.1 M 3- 9 SRC J 519



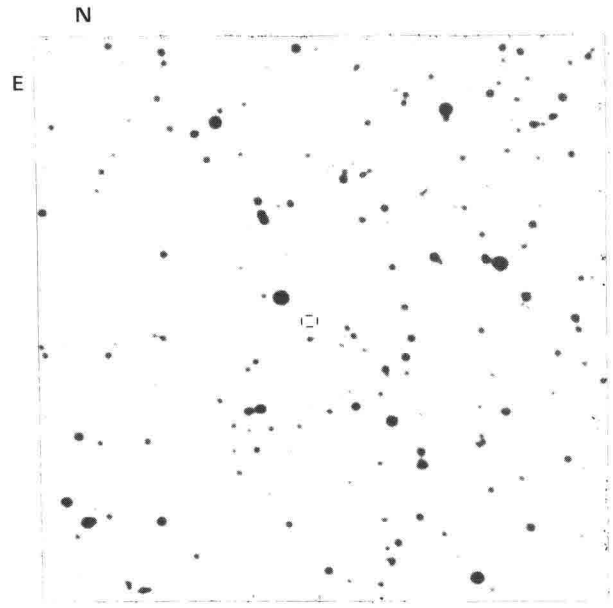
359.9-04.5 M 2-27 ESO B 456



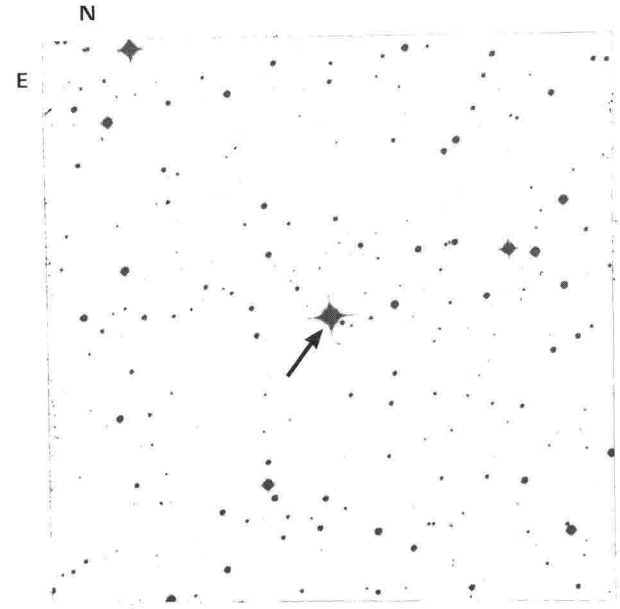
359.9-05.4 KFL 9 SRC J 456



009.8-07.5 GJJC 1 CCD image



029.2-00.0 TDC 1 POS E1085



359.2 - 33.5 He 3- 1863 SRC J 340

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