

the zenith are used, three objects are necessary to cover a full night. Results up to now confirm that, as at La Silla, the seeing may vary much during the night and from one night to the other. A typical example is presented in Figure 4 where the data have been averaged with

a 5-min moving window. Due to probable seasonal effects, a full year will be necessary to present a preliminary assessment of the quality of Paranal. At the end of July, thanks to the efforts of the Paranal team and to the technical support of La Silla, more than 70 % of

the photometric nights had been monitored. The unique data base thus created will also permit a better parametric analysis and thus a first step towards the ultimate goal for flexible scheduling: the prediction of observing conditions...

MIDAS Memo

ESO Image Processing Group

1. Application Developments

An optimized digital filter to remove cosmic ray events from single CCD exposures is being developed in collaboration with M. Deleuil. The filter locates possible cosmic ray events and compares them with the point spread function to determine the probability of it being a cosmic ray. At a given probability level, pixels effected by such events can then be replaced either by a NULL or an interpolated value.

The FITS input/output commands can now also work directly on disk files. This makes it possible to transfer data files in FITS format over a Local Area Network to workstations which do not have their own tape unit.

The table file editor, one of the favourite commands, has been extended; now it is possible to create and delete columns during the editing session and to search for an entry in a given column. A new command allows the interpolation of data using splines; this command, working both on images and/or tables, complements the capabilities already provided by the *rebin* operator.

The plotting facilities have been further upgraded with some new features and commands. The *ASSIGN/PLOT* command has been redefined to make it more consistent with the other *ASSIGN* commands in the system; the old functionality of this command has been taken over by a new *SEND/PLOT* command. Also, some new *OVERPLOT* commands have been added. Among the new features the most important ones are: the possibility to specify scales, the support to different line types, and the separate manual specification of the x- and y axis.

2. Communication

The number of computers connected to the ESO Local Area Network is steadily increasing. In order to provide a homogeneous interface to external institutes a dedicated communication processor (Bull SPS 7/300) has been purchased. This processor is connected to the ESO network and will act both as a gateway to external electronic networks and provide general services to the ESO

community such as bulletin boards. The special computer for communication makes internal changes to the ESO computer systems transparent to external users and should therefore utilize an easier communication between ESO and the user community. The implementation of this system has already been started and is expected to be terminated in the spring of 1988.

3. MIDAS Hot-Line Service

The following MIDAS Support services can be used in case of problems to obtain fast help:

- EARN: MIDAS @ DGAESO51
- SPAN: ESOMC1::MIDAS
- Tlx.: 52828222 eso d, attn.: MIDAS HOT-LINE
- Tel.: +49-89-32006-456

Also, users are invited to send us any suggestions or comments. Although a telephone service is provided, we prefer that requests are submitted in written form through either electronic networks or telex. This makes it easier for us to process the requests properly.

Five Nights on a Bare Mountain – an Outsider's Look at La Silla

G. SCHILLING, Utrecht, the Netherlands

The person in front of me is nearly unrecognizable. In the first place, it is very dark around us. Secondly, he is completely wrapped up in a fur jacket, with a cap around his head. The air temperature is just below zero, but that isn't the worst. It's the icy northern wind that blows literally through everything, and that's chilling you to the bone. The person's hands are uncovered, because he has to write, push buttons, turn dials, etc. His fingers must be frozen to death. He has already been working for about

six hours, and after a short break for a sandwich and a cup of coffee, he has another six hours to go. This goes on for several nights, all of them cold and windy. No labour union would tolerate such severe working conditions. Nevertheless, this person doesn't complain. He loves his work. He is an astronomer. We are not at the South Pole, but at La Silla, the site of the European Southern Observatory.

Since I am a science journalist rather than a professional astronomer, I have

little experience with the way of life at a big observatory. In my home country, the Netherlands, only some small historical observatories exist (apart from the Westerbork Radio Synthesis Telescope of course), and Dutch astronomers are used to do their observational work abroad. For instance at the European Southern Observatory in Chile. The Netherlands has been a member country of ESO since the establishment of the organization in 1962, and always played an important role, not only sci-