



## Release Content

We release the combined datacube and the white light image of the target.

The datacube covers the spectral range between 4750 and 9300 Å and has a spectral resolution of roughly 2.5 to 2.7 Å depending on the wavelength (see the wavelength modelling in Bacon et al. 2017). The sampling is of 1.25 Å per pixel. The limiting magnitude for a point sources is of 22.4 mag in AB. The angular resolution is 0.17 arcsec.

The complete dataset weights about 6 Gb.

The table below displays some of the information on the two observational programmes, namely their name, the coordinates of the target, the date of the observation, the exposure time per pointing, and the number of useful pointings.

Programme	Target	RA	Dec	DATE-OBS	EXP-TIME	N
<a href="#">60.A-9100(K)</a>	NGC 7130	21h 48m 19.5s	-34°57'04"	2018-06-21	300 s	3
<a href="#">60.A-9493(A)</a>	NGC 7130	21h 48m 19.5s	-34°57'04"	2018-09-18	600 s	2

## Release Notes

The spectral reference system for the datacubes is barycentric and the wavelength are measured in air.

### Data Reduction and Calibration

The individual exposures were reduced using version 2.8.1 of the MUSE pipeline under version 2.9.1 of the Reflex environment.

Probably due to the lack of point sources in the field of view, the alignment recipe failed. Hence, we aligned the individual pointings manually and we combined them using the `muse_exp_combine` recipe.

### Data Quality

The datacube is astrometrically calibrated using the bright OB region at  $x \sim 189$  and  $y \sim 321$ , which is a point source that is recorded in Gaia with  $ra=327.0816588208739$  and  $dec=-34.95061553421567$ .

The white-light 5-sigma depth for a point source is estimated to be around 22.4 mag arcsec<sup>-2</sup> in AB.

### Known issues

None.

### Previous Releases

None.

## Data Format

### Files Types

The datacubes file is named `DATA_CUBE_FINAL.fits`. Each datacube has two extensions. The first one (`EXTNAME=DATA`) contains the data value whereas the second one (`EXTNAME=STAT`) contains the data variance.

The white-light image is named IMAGE\_FOV\_0001.fits and contain a single extension produced by averaging the data datacube extension along the spectral direction. NaN pixels were excluded from the average.

## Catalogue Columns

None.

## Acknowledgements

Any publication making use of this data, whether obtained from the ESO archive or via third parties, must include the following acknowledgement:

- "Based on data products created from observations collected at the European Organisation for Astronomical Research in the Southern Hemisphere under ESO programme(s) [60.A-9100\(K\)](#) and [60.A-9493\(A\)](#)."

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Furthermore, a citation to the article describing the data reduction would be appreciated:

- Comerón et al. (2021, accepted in A&A, arXiv:2011.2937).