

Spectrophotometry at Terskol Peak Observatory

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Zeiss-2000 Telescope Complex



The main mirror
Diameter 2 m
Focus 5.6m

Richie-Chrétien system
Focus 16 m
Working field 1.18°

Kude system
Focus 72 m
working field 5'

Zeiss-600 Telescope Complex



Main characteristics:

Diameter - 600 mm

Focal length - 7.2m

Relative hole - 1/13.

CCD receiver: 1024x1024 pixels

Size of one pixel: 24.5x24.5 microns.

Field of view - 10.9'x10.9' angular minutes.

Equipment: CCD matrix SBIG STL-1001E with internal filter wheel (Johnson BVRI system), GPS time service.

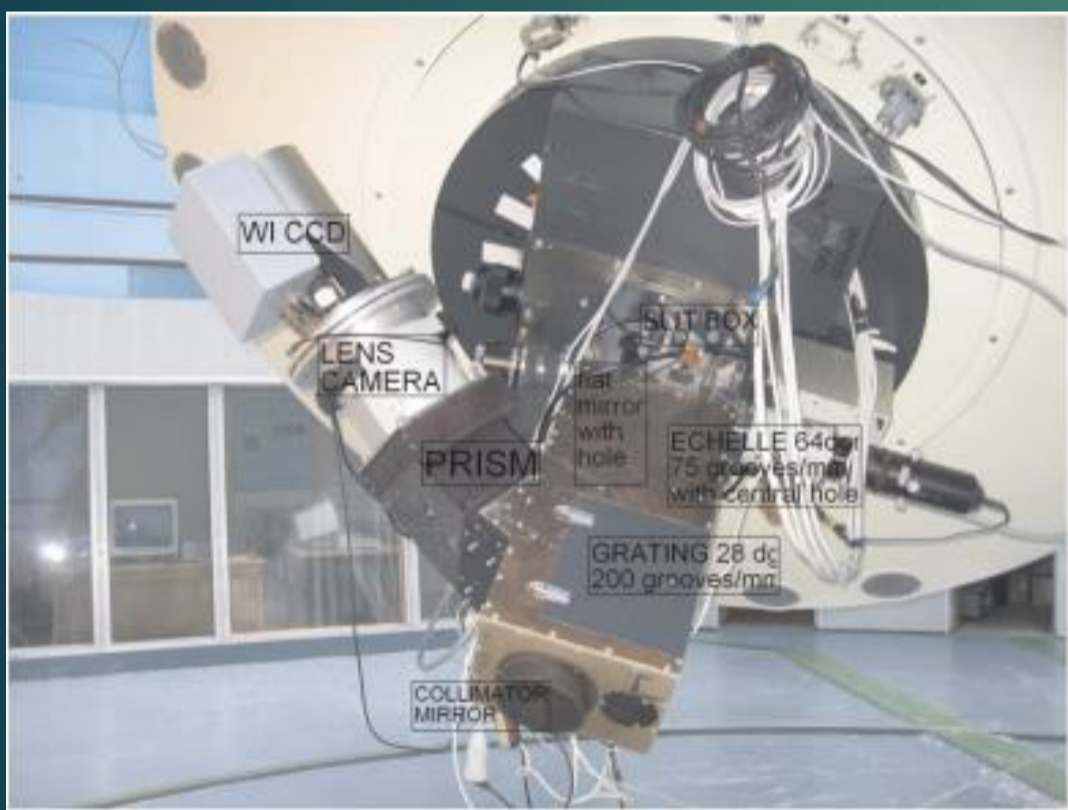
Programs used to process photometric and positional observations: MaxIm DL and Astrometrica.

Designed for positional, photometric and spectral observations of solar system bodies, stars and objects in outer space.

Camera for positional measurements (CPM)

	CCD Fli PL 4301 in the Riche-Kretien fokus
Aperture	2 m
Focal length	16 m
CCD size	2084 x 2084 pixels
Pixel size	24 x 24 mkm
Field of view	~ 12 x 12 arcmin
Read-out time	2 – 5 sec
Detection threshold	21 mag

Multimode spectrometer MMCS



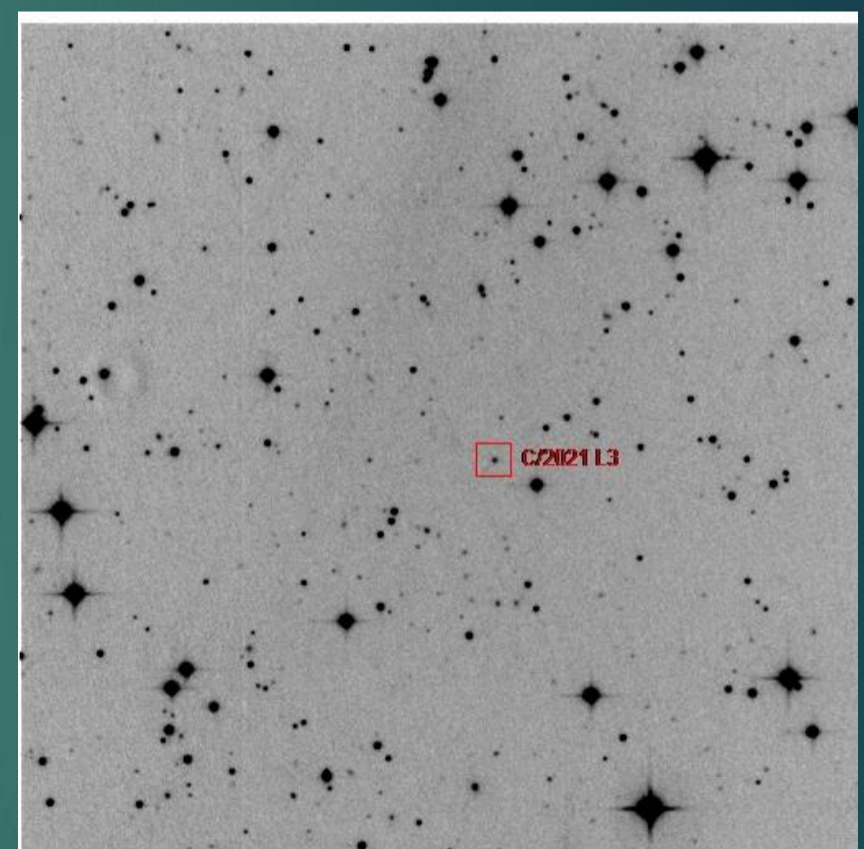
classic version (R = 1500), m = 15

quasi-eschel mode R = 5000), m = 14

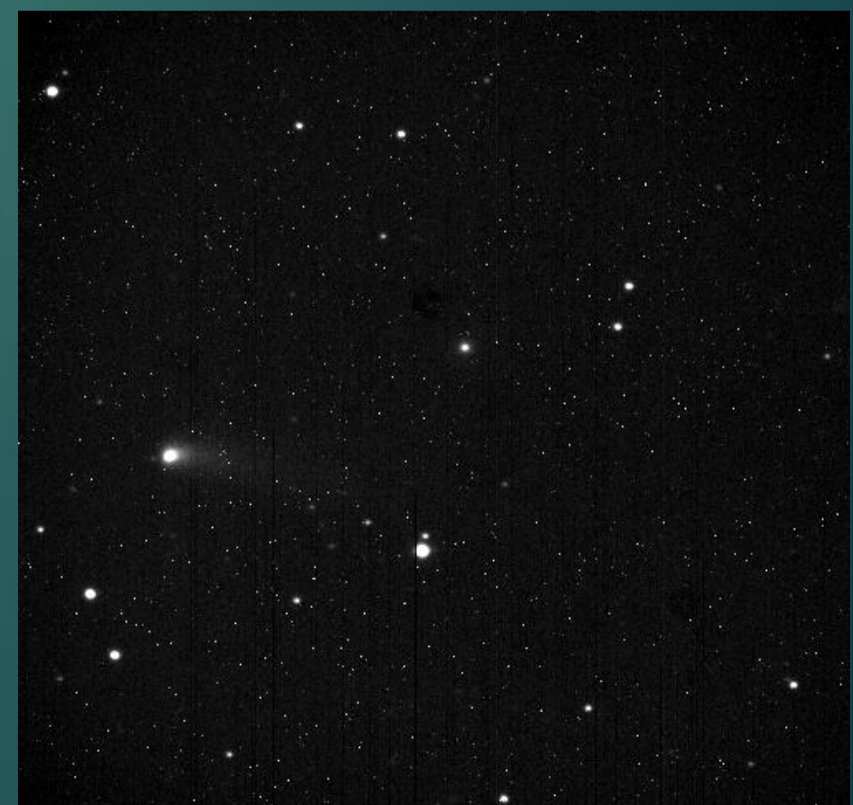
eschel mode (R = 13500), m = 12.5



Comet C/ 2019 T3 (Atlas) (2-m telescope, Terskol, Octobre 2021, filter R).



Processed CCD frame of comet C/2021 L3 (Borisov) (Terskol, Zeiss-600 telescope, September 2021, filter R)



Comet 67p/Churyumov - Gerasimenko (2-m telescope, Terskol, August 2021, filter R, exposure 30 s)