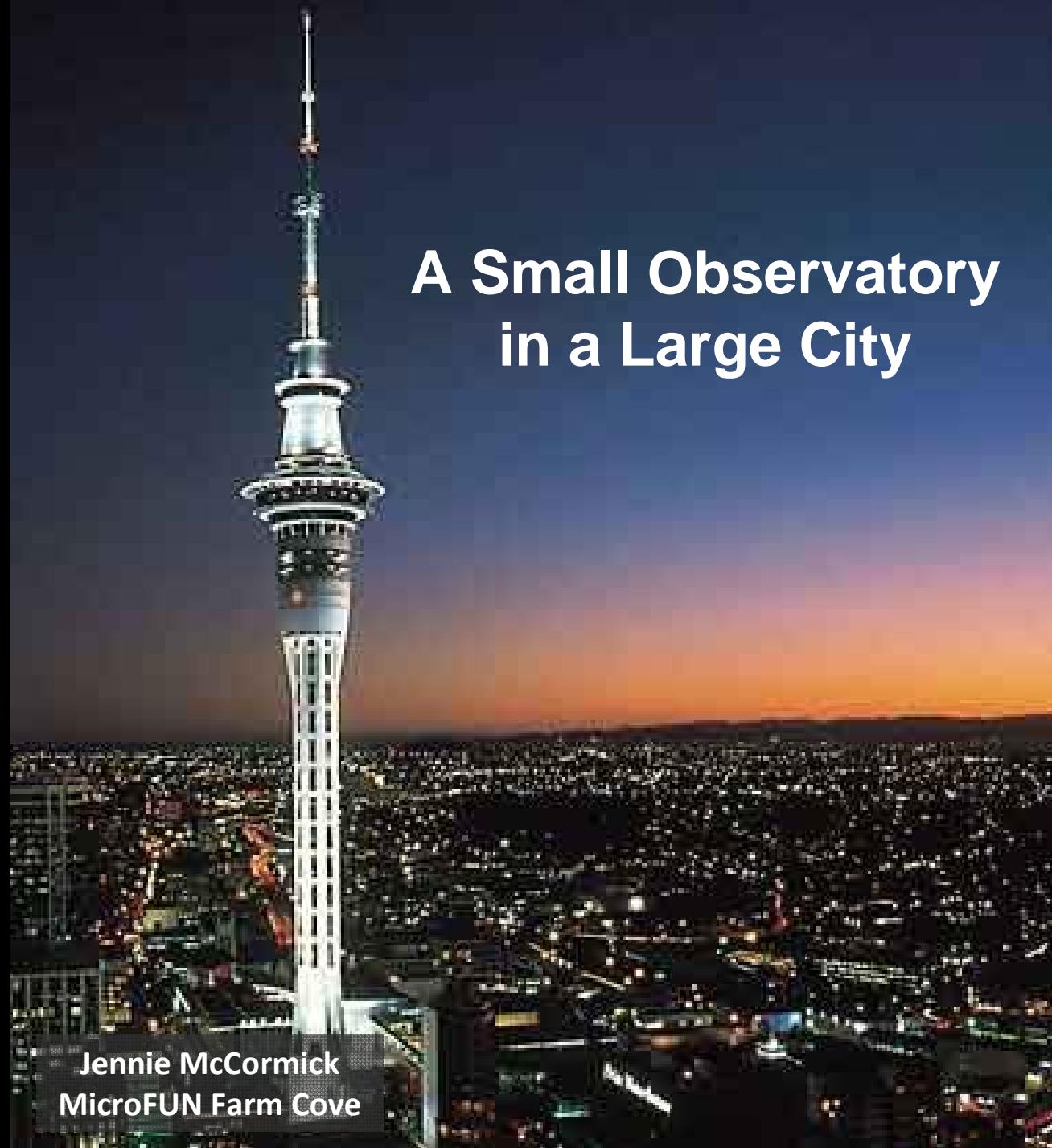


A Small Observatory in a Large City



Jennie McCormick
MicroFUN Farm Cove

Farm Cove Observatory

CBA Pakuranga - MicroFUN Farm Cove - IAU Obs code E85



Farm Cove, Pakuranga, Auckland, New Zealand

174°53' 39"E - 36°53' 43"S



Farm Cove



The Observatory



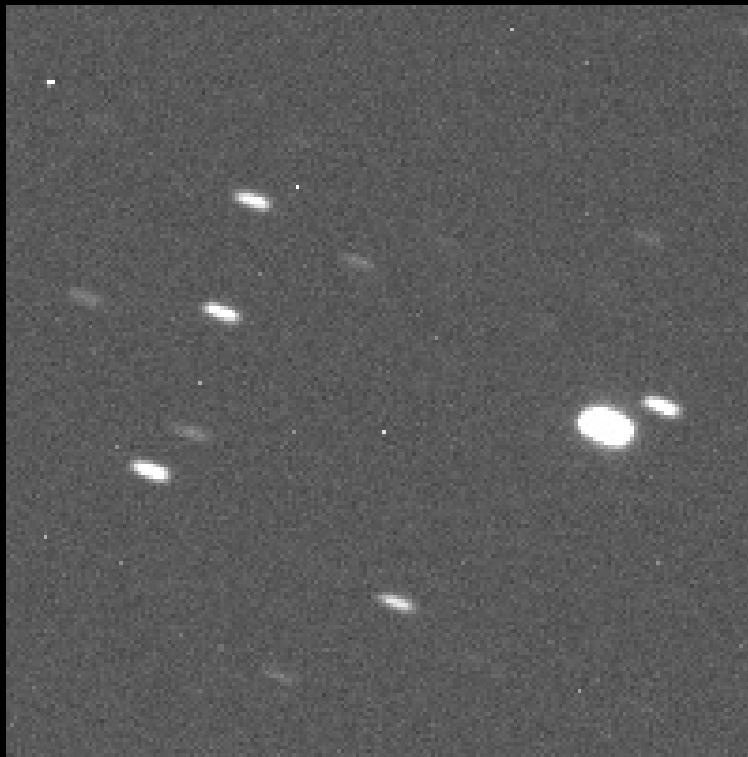
Meade LX200 ACF 14" f/10



- ❖ ACF = Advanced Coma Free Optics
- ❖ UHTC = Ultra High Transmission Coatings

- ❖ Dew/Light Baffle
- ❖ Dew Heater

Problematic RA and DEC Drives



30 Second Guided Image

SBIG ST8XME CCD & dual auto guiding chip



Pixel Size: 9 microns square

Pixel Array: 1530 x 1020

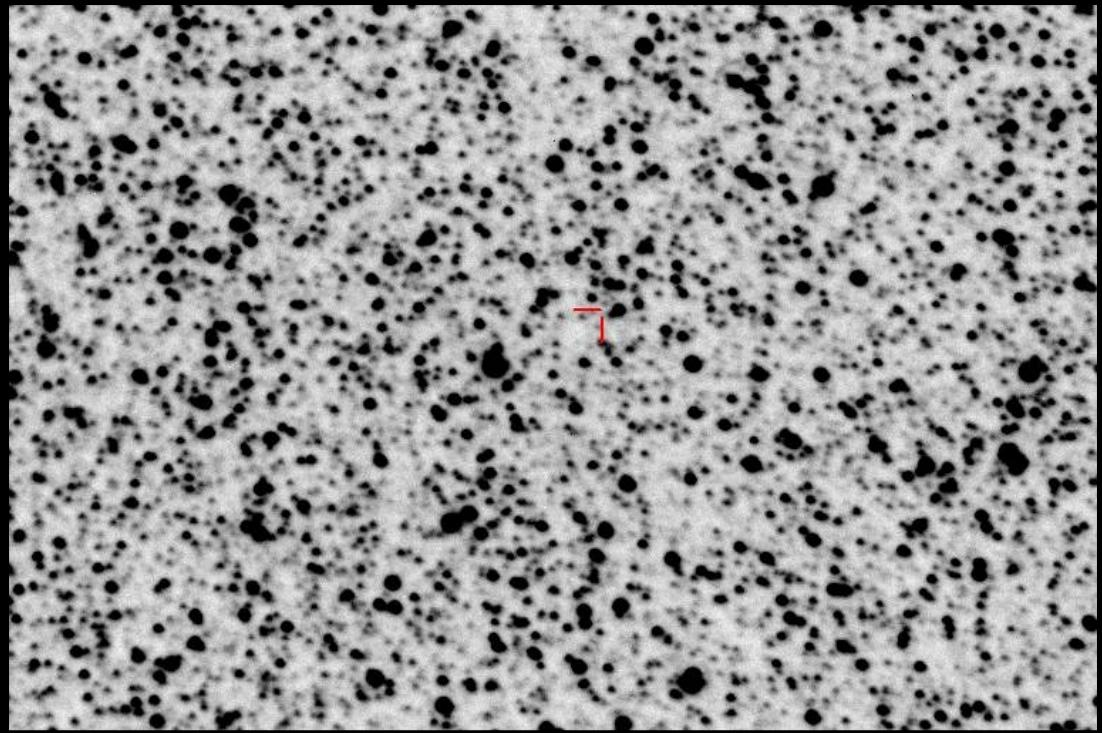
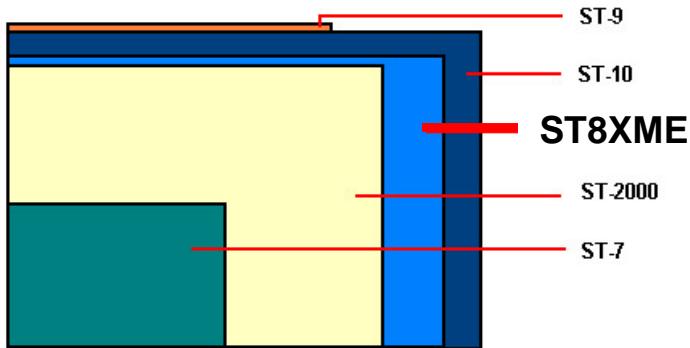
0.53as per pixel

Full Field of view 1x1

13.5' x 9.00'

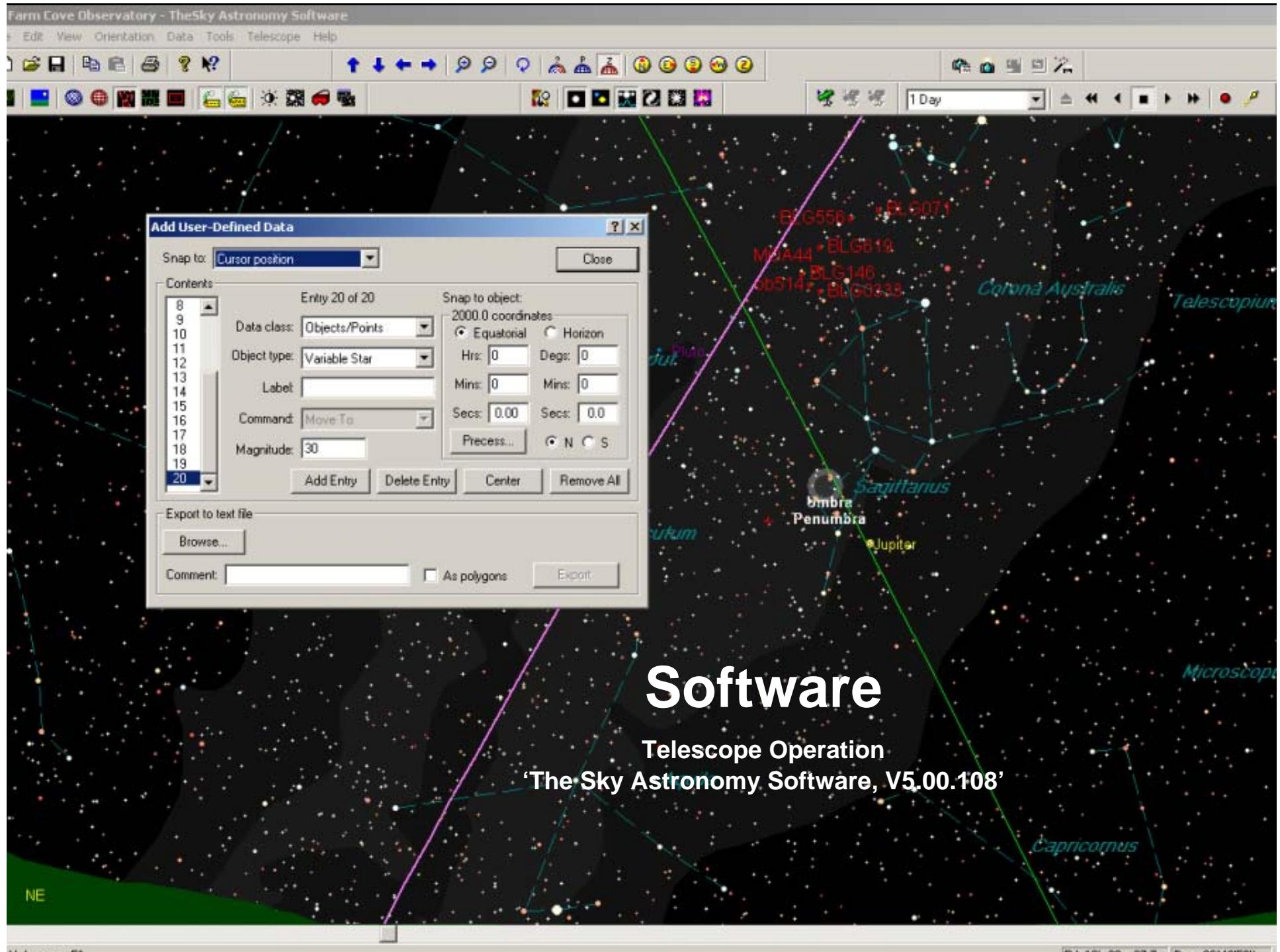
Full Frame Download: 8s

Relative CCD Sizes



500 x 500 = 4.4' x 4.4'

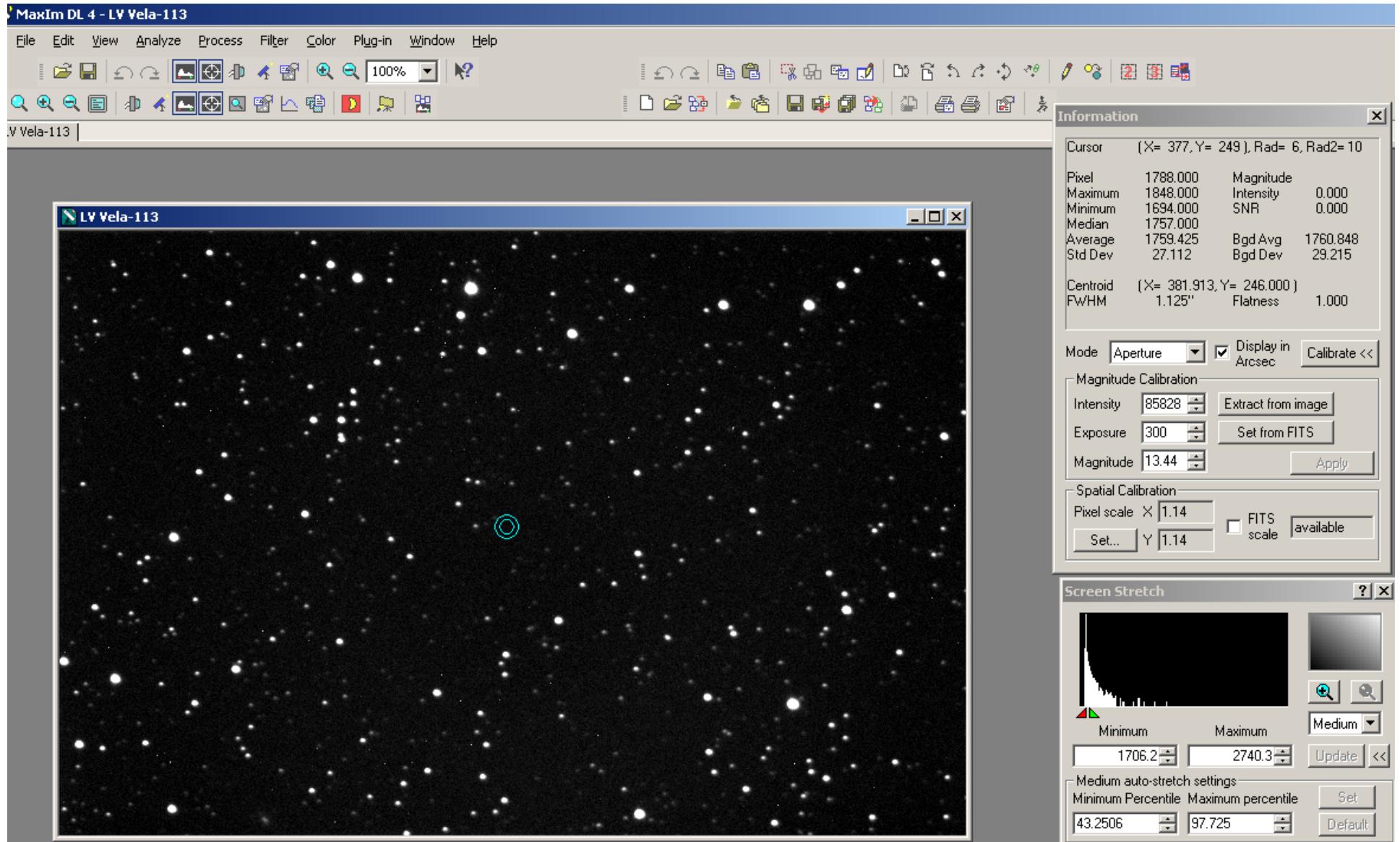
**300s calibrated and cropped full frame images
uploaded to MicroFUN**



Software

Telescope Operation

'The Sky Astronomy Software, V5.00.108'



Software

Camera Control,
Data Acquisition and Data Reduction
‘MaxIm DL’

OGLE-2008-BLG-594

Field BLG225.7

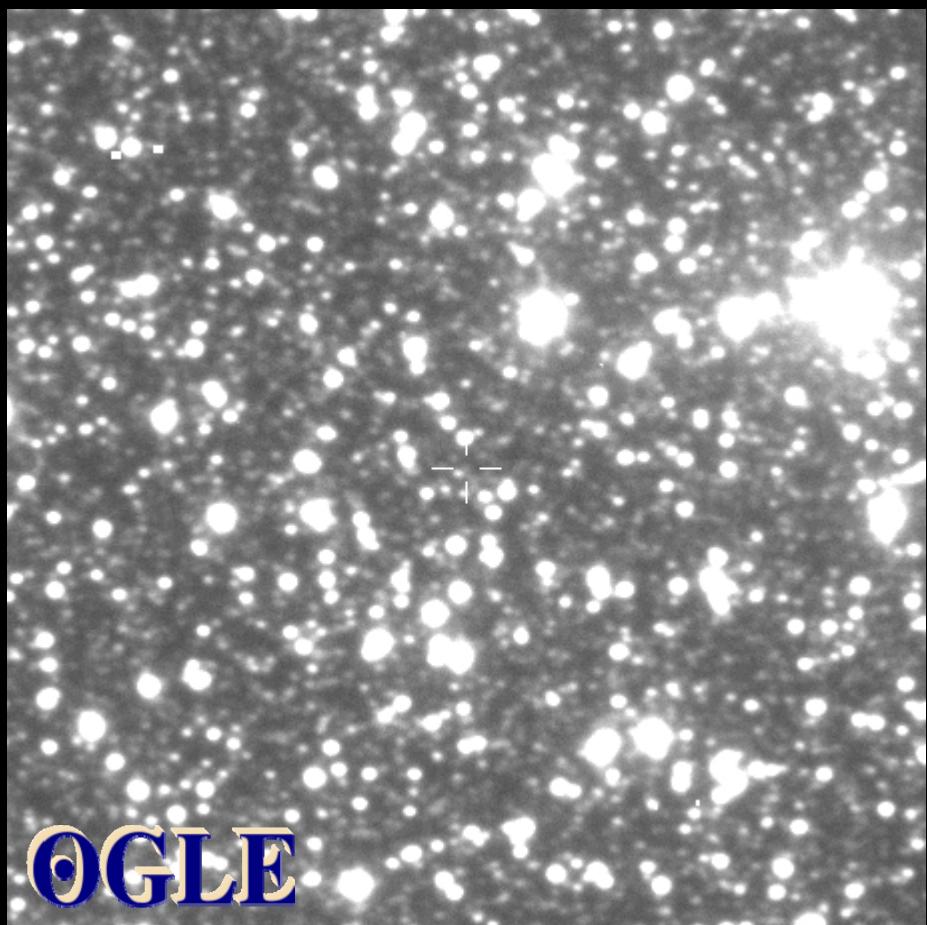
Star No 143636

RA (J2000.0) 18:03:40.13

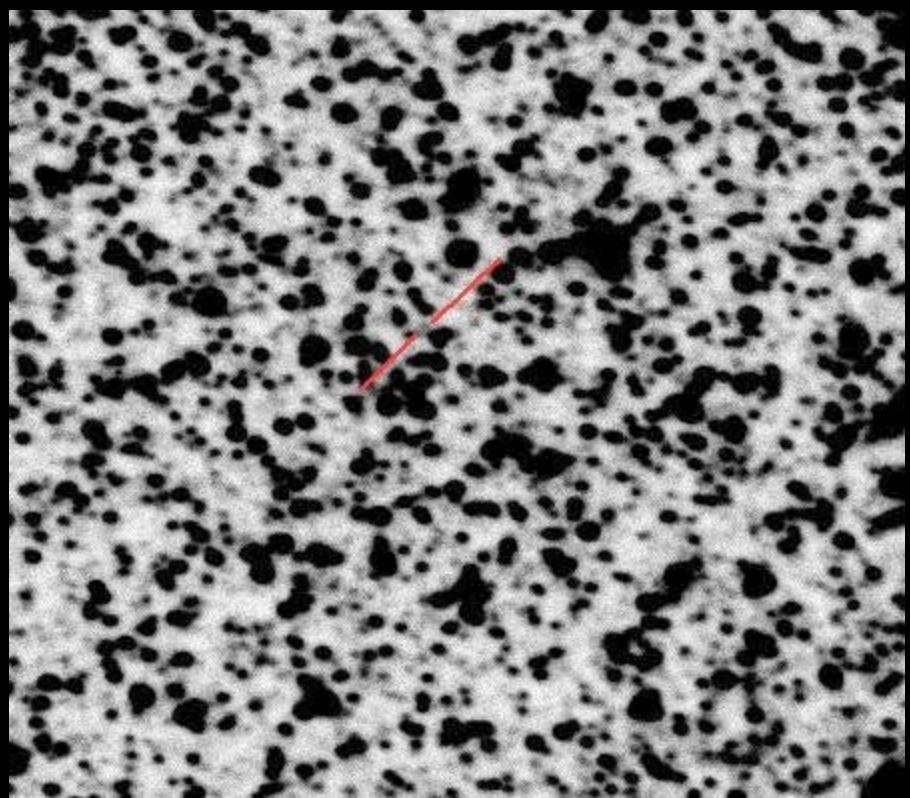
Dec (J2000.0) -27:43:58.4

Remarks

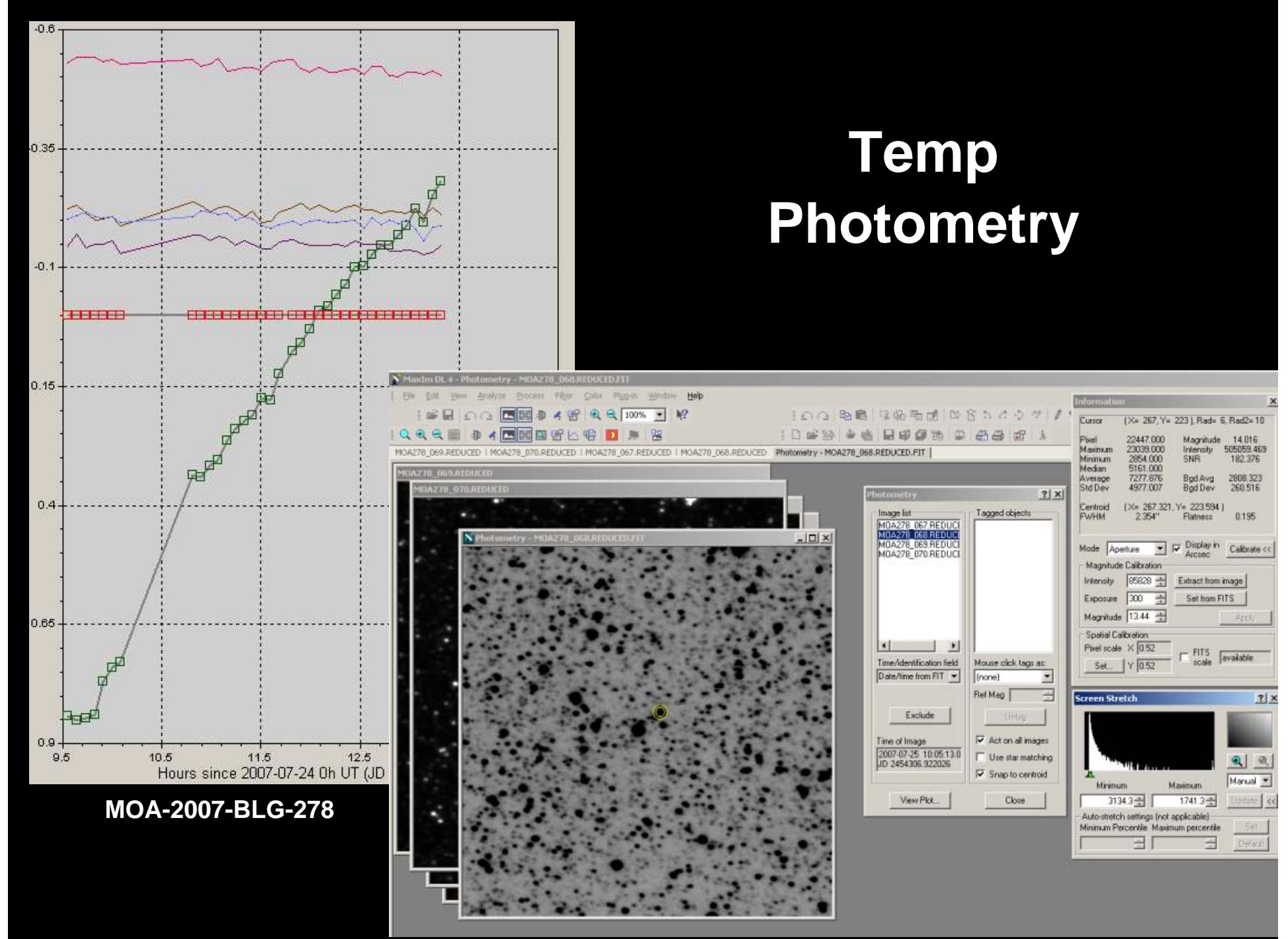
Target ID



OGLE



Temp Photometry





Data Calibration



**90s 1x1 median combined Master Flat
with an average signal to noise ratio
of between 24000 and 26000 counts.**

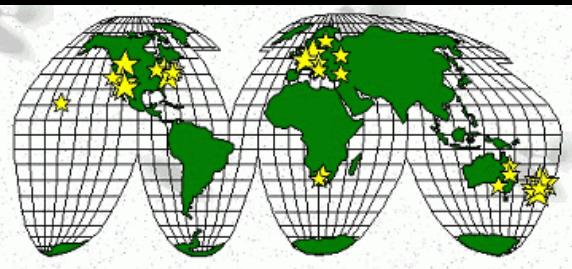


5mm thick Opal Perspex® flat field diffuser

**Dark Frame Calibration = Master Dark library of
median combined frames with corresponding exposure,
bin and temperature to the science frames**

Collaborations since 2000

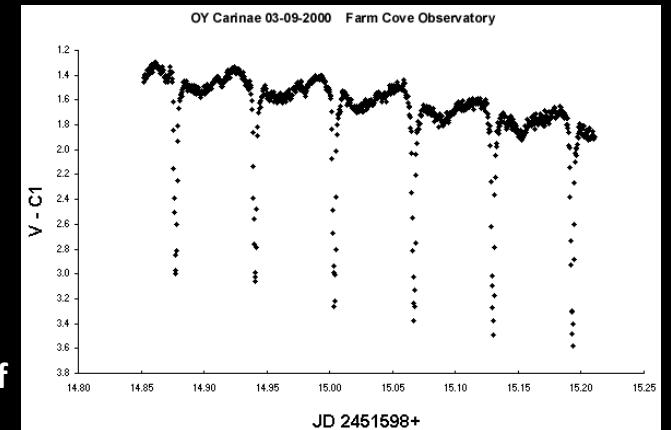
2000



CBA Centre for Backyard Astrophysics

Columbia University, New York.

A global network of small telescopes
dedicated to photometric observations of
Cataclysmic Variable Stars



2004



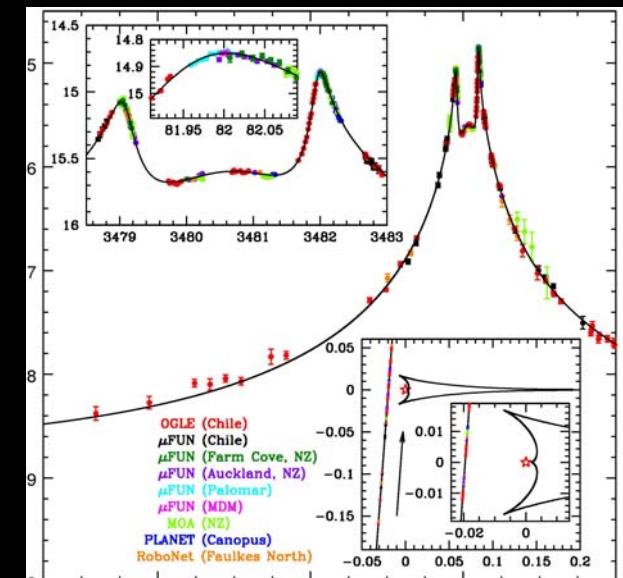
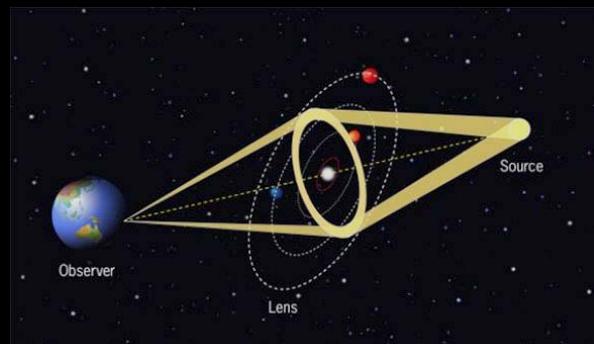
DEPARTMENT OF
ASTRONOMY

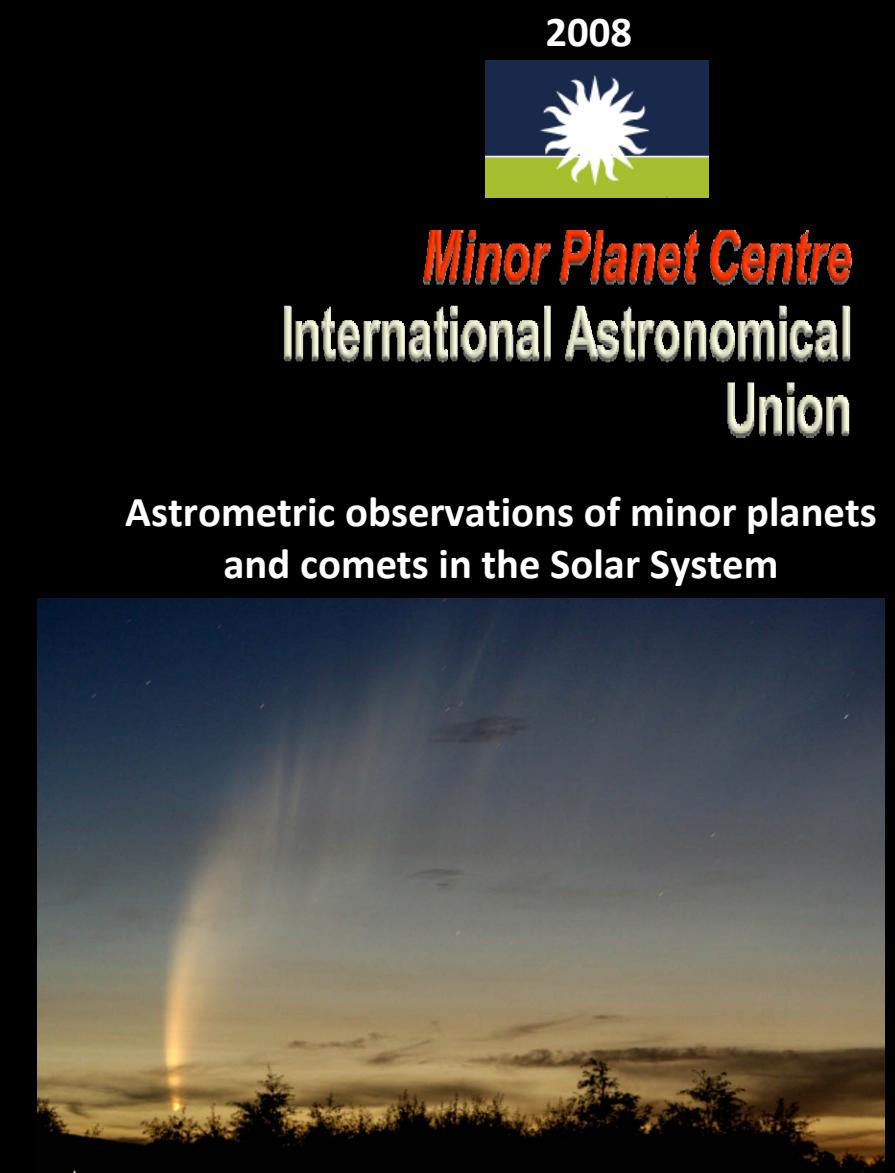
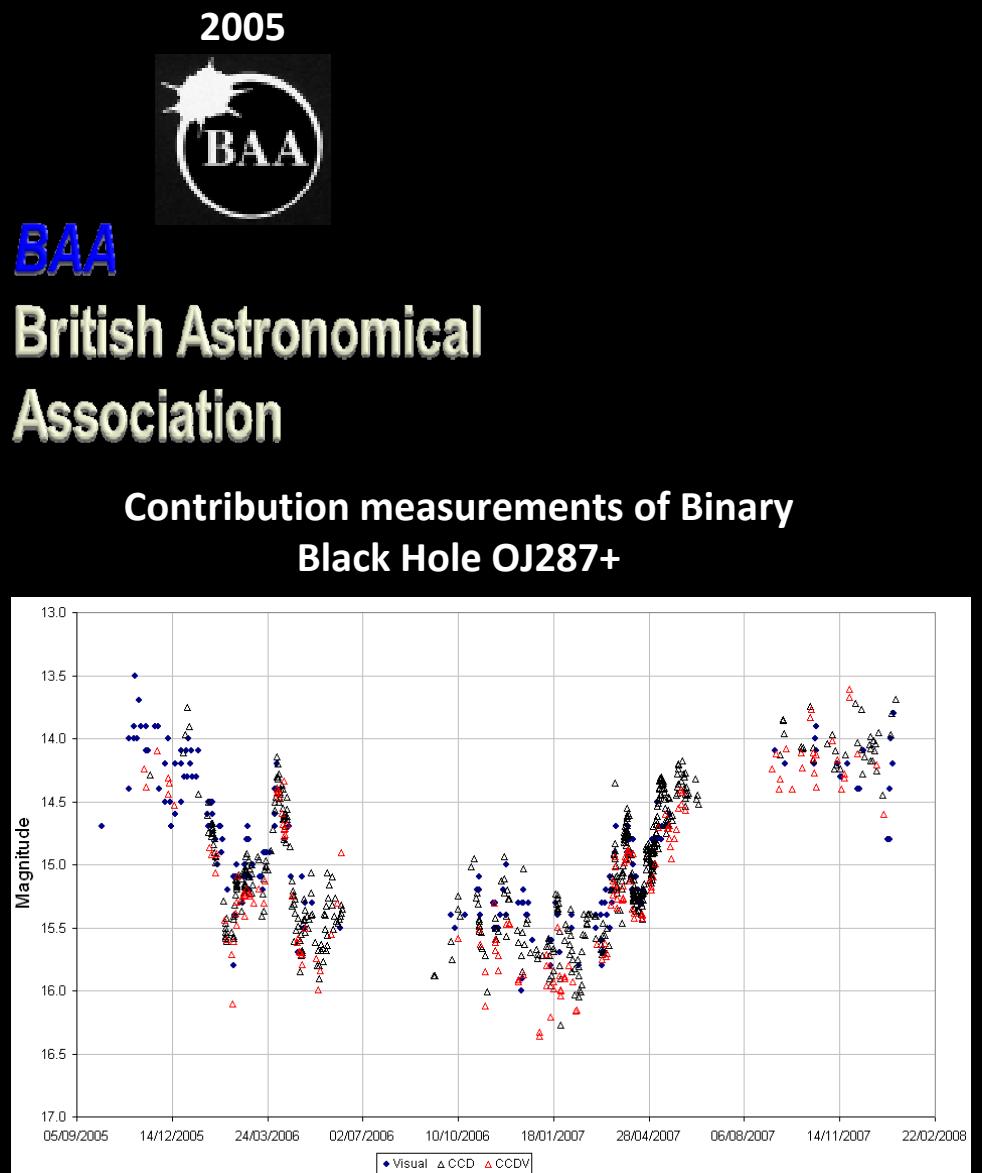


Picture Chris Pickering, NZ

MICROFUN Microlensing Follow-up Network

The Ohio State University, Ohio.

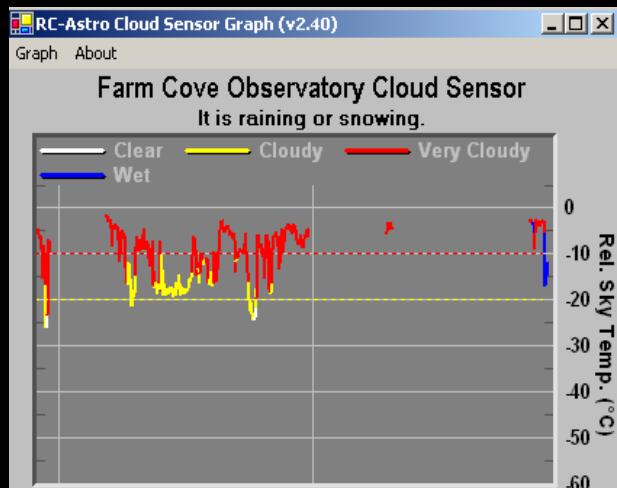




MicroFUN Events acquired since 2004

	Events	Hours	OGLE	MOA
2004	3	8.25	3	0
2005	12	71.06	12	0
2006	12	43.02	11	1
2007	29	106.05	16	13
2008	35	109.02	21	14
Totals	91	337.01	63	28

Problems Currently Facing FCO



Weather



Merry Christmas Everyone

I wish to acknowledge, Andy
Gould and the MicroFUN team
at Ohio State University
Astronomy Dept

And

Joe Patterson and the CBA at
Columbia University for their
generous support and
guidance since 2000

