



M101

4/23/2003

Bowling Green, Ohio

Conditions: rural, slight light pollution, no wind, slight turbulence, no moon, no dew, low 40's

Meade LX-90 8 inch sct in Polar alignment mode

3.3 focal reducer

StellaCam-EX:

128X sense-up, gain at 8 out of 9

Capture off video tape onto HP ze5185 notebook as 146 image sequence @ 1 per two seconds using Video Capture Essentials with no interleaving, brightness 45% and contrast 60%

Make "M101_042303_0_avg146autoregx_FFcorV2chr_cln_moi_proc3":

Registax Processing:

Average 146 images using auto-optimal alignment and stacking

AstroArt 2.0 Processing:

Make "Chris" flatfield and Gauss smooth with sigma = 15

Divide original by flatfield

Adobe Photo-deluxe Home Edition 4.0 Processing:

Clone out hot pixel streaks

Moire removal using 90 degrees and smooth of 30

Moire removal using 0 degrees and smooth of 10

AstroArt 2.0 Processing: (read in .bmp version)

Offset +5

Maximum entropy de-convolution: 20 iterations, cut sky

Convolution – gauss sigma = 2, level = 35

Convolution using Gaussian psf with sigma = 2.0, level = 35

Histogram: 20 min, 195 max, log 2 clicks from linear

Redo "Chris" flatfield and subtract from original

Unsharp mask 1, 4

Gauss smooth with sigma = 1.5

Histogram: 3 min, 226 max, log 2 clicks from linear

Microsoft Word Processing: Brightness 55%, contrast 45%

Larry Low – Astrophotnist

5/18/2003