



M13 - Hercules Cluster

6/21/2003

Greiser Hollow, Ohio

Conditions: deep rural, no light pollution, all stars visible in small dipper, good milky-way, no wind, slight turbulence, no moon, medium dew, mid 50's

Meade LX-90 8 inch sct in Polar alignment mode
3.3 Focal reducer

StellaCam-EX:

2X Zoom

128X sense-up, gain at 5 out of 9

Capture off video tape onto HP ze5185 notebook using Video Capture Essentials with no interleaving as 299 image sequence @ 1 per two seconds with brightness at 45%, contrast at 100%.

Make "M13_062103_2_avg224autoregx_FFcorV2chr_cln_proc2":

Registax Processing:

Average 224 images using auto-optimal alignment and stacking

AstroArt 2.0 Processing: (read in .fit version)

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

Divide original by flatfield

Adobe Photo-deluxe Home Edition 4.0 Processing: (read in .bmp version)

Clone out hot pixel streaks

AstroArt 2.0 Processing: (read in .bmp version)

Offset +10

Maximum entropy deconvolution, 20 iterations, no cut sky

Gaussian smooth sigma = 0.7

Convolution using Gaussian psf with sigma = 2.0, levels = 10,15,20,25,30,35,40

Redo a "Chris" flat field correction and subtract it

Unsharp mask 1.5, 3 adaptive

Convolution using Gaussian psf with sigma = 2.0, level = 15

Histogram: 5 min, 185 max, lin

Gaussian smooth sigma = 1.0

Offset +10

Maximum entropy deconvolution, 20 iterations, no cut sky

Histogram: 10 min, 200 max, lin

Gaussian smooth sigma = 1.0

Gaussian smooth sigma = 2.0

Histogram: 10 min, 150 max, log5

Microsoft Word Processing: (use .bmp version)

Brightness 53%, contrast 53%

Larry Low – Astrophotunist

6/29/2003