



**NGC 1499 – California Nebula**

Date/time: 08.11.2008 21:10 to 08.11.2008 22:35

Az./Alt. positions: 82° / 44° to 99° / 58°

Ambient conditions: 0°C, transparency 4/5, seeing 3/5,

¾ Moon, Moonset at 02:15

Location: Trier, Germany

**Equipment:**

Telescope: TMB 92 SS f/5.5 with TSFlat, with dew heater

Mount: CGE, selfguided with ST-4000XCM

Camera: SBIG ST-4000XCM

Filters: Baader H-a 7nm

**Acquisition:**

Software: CCDSoft V5

FOV, Image scale: 102.8 x 102.8 arcmin, 3.01 arcs/pixel

Sub-exposures: 1h 20min (8 x 10min) light frames at -30°C,

50 x 10min dark frames

**Processing:**

Calibration, stacking, extraction L-channel in Images Plus 3.75,

curves and levels adjustments in CS3, noise reduction with Carbonis Actions,

SMI enhancement and High Pass sharpening in CS3

**Comments:**

This is the first attempt to make a H- $\alpha$  image with the TMB under high Moon conditions.

Too short exposure time. Only through the SMI technique it was possible to bring the details of the nebula.