

Palomar LGSAO Engineering Summary 04/06/07 UT

Afternoon:

- Much debugging of TAO/Telemetry problem. No solution et identified.
- IR lasers in good shape (1.32=10W, 1.06=12W) but laser mode locking not functioning.

Night log:

1925 Weather: scattered clouds just above observatory level;  
clear overhead.  
1930 Opening dome for sky flats.  
1945 Seeing 0.55" in K.  
2000 Laser mode locking is fixed. Renu completing alignment  
through SFG.  
2030 Starting laser alignment to BTO.  
2053 Done with laser alignment to BTO. Evaluating weather  
conditions.  
2115 Preparing to project laser at zenith.  
2130 Projecting at zenith.  
Optimum LLT focus: 11780  
Optimum laser focus: 7000 (cannot optimize due to clouds)  
2136 Zenith alignment complete.  
2147 Moving to first science target.  
2230 Acquisition complete.  
2305 Got good imaging data on target.  
2309 Moving to second science target (no bright star  
optimization).  
2330 Shuttering due to thick clouds.  
2335 Switching to NGS backup program.  
0211 Sky clearing, moving to sci. target 3.  
0225 Spotter miscommunication caused 10min delay.  
0235 Counts extremely low on WFS. ~20 cts @ 100 Hz.  
0240 AO system telemetry failure. Restarting AO software.  
0250 Restarting AO software again.  
0251 Moving to another target.  
0315 Acquisition complete.  
0330 Shuttering due to thick clouds.  
0330 Switching to NGS backup program.  
0430 Calling the night for the laser.  
0445 Shutting down laser and BTO.