Palomar LGSAO test schedule v3.0: 07/13/06 - AB
11 - 13 July 2006 (local)

Test #	PDT start	PDT end	Test Name	Obs mode	Target	Description / Prerequisites	Priority	Duration	Lead	Clear sky	Laser
07/11/06			suns 20:08 12° 21:03 LST 19:33 12° 4:43 sunr 5:38								
	day		Switch HOWFS dichroic spot	closed	zen	Switch to Na dichroic spot	1	2.00	JR		
	day		Debug new software build	closed	slew	Reproduce DM loop crash, DM "hot" actuators.	2	2.00	MT		
	day		Install HOWFS chopper	closed	zen	Install and test chopper, delay line, cover.	2	4.00	JR		
	day		Test BTO	closed	zen	Test BTO alignment to Q3 and software changes.	3	2.00	JA		
	day		Acquisition camera calibration	cloase	dark	Take acquisition camera darks, flats	3	1.00	AB		
	14:00	14:30	**Status meeting**					0.50			
	18:00	19:00	dinner					1.00			
1	20:30	21:00	AO Checkout	NGS	V=8	check seeing, NGS performance.	3	0.50	AB	N	N
2	21:00	22:30	LLT boresighting	NGS	V=3	Boresigh to 200". Check repeatability vs. elevation.	1	1.50	HP	N	N
3	22:30	0:00	LLT image quality	NGS	V=3	Collimate LLT, measure image quality.	1	1.50	RD	N	N
4	0:00	0:30	Final BTO alignment	NGS	V=3	Realign red laser to LLT	1	0.50	RD	N	N
5	0:30	1:30	LGS characterization	LGS	zen	Project laser at zenith, focus, measure photometry.	1	1.00	AB	Y	Na
6	1:30	2:30	LGS off-zenith acquisition	LGS	V=10	Demonstrate improved acquisition procedures.	1	1.00	AB	N	Na
7	2:30	3:45	HOWFS chopper	LGS	V=10	Test HOWFS chopper functionality	2	1.25	JR	N	Na
07/12/06			20:07 21:02 19:37 4:44 5:39								
	day		etalon control			Install and test etalon thermal and/or tillt control.		8.00			
	day		Test BTO off-zenith control			Test new 2-D lookup tables.		2.00			
	day		Measure beam quality at LLT					2.00			
	day		Measure BTO transmission					1.00			
	14:00	14:30	**Status meeting**					0.50			
	18:00	19:00	dinner					1.00			
1	20:30	0:00	BTO wavefront quality	closed	zen	Measured BTO wavefront quallity with 589 & 660nm lasers	3	3.50	RD	N	Na
2	0:00	1:00	Focus laser	closed	zen	Adjust laser focus lens to optimize return flux	1	1.00	AB	Y	Na
3	1:00	1:30	AO Checkout	NGS	V=8	check seeing, NGS performance.	3	0.50	AB	N	N
4	1:30	2:30	LGS characterization	LGS	zen	Project laser at zenith, focus, measure photometry.	1	1.00	AB	Y	Na
5	2:30	3:30	LGS off-zenith acquisition	LGS	V=10	Demonstrate improved acquisition procedures.	2	1.00	AB	N	Na
6	3:30	5:00	Bright star performance	LGS	V=10	Optimize HO loop performance with bright NGS.	1	1.50	MT	Y	Na

07/13/06 20:07 21:39 19:41 4:45 5:39

	day		*contingency*	closed			2	6.00		N	N
	14:00	14:30	**Status meeting**					0.50			
	18:00	19:00	dinner					1.00			
1	20:30	21:00	AO Checkout	NGS	V=8	check seeing, NGS performance.	3	0.50	AB	N	N
2	21:00	22:00	LGS characterization	LGS	zen	Project laser at zenith, focus, measure photometry.	1	1.00	AB	Y	Na
3	22:00	0:00	Bright star performance	LGS	V=10	Optimize HO loop performance with bright NGS.	1	2.00	MT	Y	Na
4	0:00	1:30	Faint star performance	LGS	V=16	Measure performance on V=14,15,16 stars	1	1.50	MT	Y	Na
5	1:30	4:30	LGS science demo observations	LGS	V=15	Image 2-3 science targets.	1	3.00	AB	Y	Na

Backup experiments

1	0:00	1:00	Flatmap test	NGS	stars		3	1.00	CS	N	N
2	1:00	2:00	Acquisition camera sensitivity	NGS	stars		3	1.00	AB	Y	N
3	2:00	3:30	Demo LOWFS dithering	NGS	V=8	Demonstrate dithering on PHARO.	2	1.50	MT	N	N
4	3:30	4:30	HOWFS-laser TT correlation	LGS	V=8		3	1.00	MB	Y	Na
5	4:30	5:30	LGS magnitude vs. B field	LGS	V=8	Measure LGS magnitude at ~15 points over sky	3	1.00	AB	Y	Na