

Palomar LGSAO test schedule
5-7 December 2006 (local)

v1.2: 11/28/06 - AB
Spotters needed 2130-0530 (on station 2200-0530)

Test #	PDT start	PDT end	suns	12° LST	12°	sunr	Obs mode	Target	Description / Prerequisites	Priority	Duration	Lead	Clear sky	Laser
12/05/06			16:48	17:38	5:12	5:39	6:29							
	8:00	10:00					closed	zen	Install LLT	1	2.00	RT	N	N
	10:00	14:00					closed	zen	LLT diagnostics bench checkout	1	4.00	AM	N	660
	10:00	14:00					closed	zen	AO bench setup and checkout	1	4.00	JR	N	N
	14:00	14:30							status and safety meeting		0.50			
	14:30	16:00					closed	zen	Align CSFL to BTO	3	1.50	AB	N	Y
	16:00	17:30							<i>dinner shift 1</i>		1.50			
	16:00	17:30					closed	zen	Test-fire laser in dome	3	1.50	AB	N	Y
	17:30	18:30							<i>dinner shift 2</i>		1.00			
1	18:30	19:00					NGS	V=8	AO Checkout	3	0.50	JR	N	N
2	19:00	20:30					NGS	V=3	LLT boresighting	3	1.50	HP	N	N
3	20:30	22:00					NGS		<i>NGS experiments (see list)</i>		1.50			
4	22:00	23:00					LGS	zen	LGS characterization	1	1.00	AB	Y	Y
5	23:00	5:30					LGS		<i>LGS experiments (see list)</i>	1	6.50		Y	Y

12/06/06			16:48	17:38	5:16	5:39	6:29							
	12:00	14:00					closed		<i>daytime contingency</i>		2.00		N	
	14:00	14:30							status and safety meeting		0.50			
	14:30	16:00					closed		<i>daytime contingency</i>		1.50		N	
	16:00	17:30							<i>dinner shift 1</i>		1.50			
	16:00	17:30					closed	zen	Test-fire laser in dome	3	1.50	AB	N	Y
	17:30	18:30							<i>dinner shift 2</i>		1.00			
1	18:30	19:00					NGS	V=8	AO Checkout	3	0.50	JR	N	N
2	19:00	22:00					NGS		<i>NGS experiments (see list)</i>		3.00			
3	22:00	23:00					LGS	zen	LGS characterization	1	1.00	AB	Y	Y
4	23:00	5:30					LGS		<i>LGS experiments (see list)</i>	1	6.50		Y	Y

12/07/06			16:48	17:38	5:20	5:40	6:30							
	9:30	13:30					closed	zen	Removal of pupil reimager		4.00	RT	N	N
	14:00	14:30							status and safety meeting		0.50			
	14:30	16:00					closed		<i>daytime contingency</i>		1.50		N	
	16:00	17:30							<i>dinner shift 1</i>		1.50			
	16:00	17:30					closed	zen	Test-fire laser in dome	3	1.50	AB	N	Y
	17:30	18:30							<i>dinner shift 2</i>		1.00			
1	18:30	19:00					NGS	V=8	AO Checkout	3	0.50	JR	N	N
2	19:00	22:00					NGS		<i>NGS experiments (see list)</i>		3.00			
3	22:00	23:00					LGS	zen	LGS characterization	1	1.00	AB	Y	Y
4	23:00	5:30					LGS		<i>LGS experiments (see list)</i>	1	6.50		Y	Y

Prioritized LGS experiments

1	0:00	1:00					LGS	V=10	LGS acquisition procedure	1	1.00	AB	Y	Y
2	1:00	2:30					LGS	V=10	LGS performance (bright star)	1	1.50	MT	Y	Y

3	2:30	3:30	Impact of Raleigh on LOWFS	LGS	zen	Measure rayleigh with LOWFS at various field positions	1	1.00	JR	Y	Y
4	3:30	6:30	LGS science demo 1	LGS	V=15	Observe 2 science targets	1	3.00	AB	Y	Y
5	6:30	9:30	LGS performance (faint star)	LGS	V=17	Optimize TT, measure Strehl & PSD for V=14,15,16,17	2	3.00	JR	Y	Y
6	9:30	10:30	Off-axis acquisition procedure	LGS	V=10	Demonstrate off-axis NGS acquisition procedure	2	1.00	AB	N	Y
7	10:30	12:00	LGS mag vs. B field & LLT flexure	LGS	V=10	Measure LGS, LLT flexure magnitude at ~15 points over sky	2	1.50	AB	Y	Y
8	12:00	15:00	LGS science demo 2	LGS	V=15	Observe 2 science targets	2	3.00	AB	Y	Y
9	15:00	16:00	UTT performance	LGS	zen	Investigate UTT performance (ideas, anyone?)	3	1.00	MT	Y	Y
10	16:00	20:30	LGS science demo 3	LGS	V=15	Observe 3 science targets	3	4.50	AB	N	Y
11	20:30	22:30	LGS performance vs. airmass	LGS	V=10	Measure laser magnitude & Strehl at el=90,60,45	3	2.00	AB	Y	Y
12	22:30	0:30	LGS isoplanatism	LGS	V=10	Measure LGS and NGS isoplanatic angles	3	2.00	AB	Y	Y

Prioritized NGS experiments

1	0:00	2:00	LLT image quality	NGS	V=3	Measure LLT image quality using new Pulnix setup.	1	2.00	AB	N	N
2	2:00	3:30	Predictive AO control	NGS	V=3	Take WFS data for Lisa Poyneer w/ pupil reimager	1	1.50	MT	N	N
3	3:30	5:30	LOWFS flexure	NGS	V=4	Good cloudy night test	1	2.00	MT	N	N
4	5:30	8:30	NGS low-light tests	NGS	V=15	Investigate various low light algorithms	2	3.00	CS	Y	N
5	8:30	11:30	LOWFS performance	NGS	V=16	continue LOWFS performance test from Sep. run	2	3.00	JR	Y	N
6	11:30	12:30	LOWFS focus performance	NGS	V=17	Measure LOWFS focus in dual NGS mode	3	1.00	AB	N	N

Prioritized closed dome experiments

1	0:00	2:00	LOWFS flexure	WL	move	Measure flexure of LOWFS using white light stimulus.	1	2.00	MT	N	N
2	2:00	4:00	Recalibrate BTO model		move		1	2.00	AB	N	660
3	4:00	6:00	Field-dependent LOWFS focus	WL	zen		1	2.00	MT	N	N

Background experiments

1			Aircraft camera sensitivity	NGS			2		JC	N	N
2			Laser diagnostics benches	LGS			2		AM	N	Y