

Palomar LGS AO test schedule
23-26 May 2007 (local)

v1.1: 05/21/07 - AB & JR

Spotters requested 20:15-04:45 PDT (on station 20:55-04:35)

Test ID	PDT start	PDT end	suns	12°	LST	12°	sunr	Obs mode	Target	Description	Priority	Duration	Lead	Clear sky r0>10cm	Laser
05/23/07			19:54	20:47	16:19	4:41	5:34								
1	9:00	12:00	Install AO					closed	zen		1	3.00	Sweet	N	N
2	12:00	14:00	Install LLT					closed	zen		1	2.00	Sweet	N	N
3	12:00	16:00	AO bench setup and checkout					closed	zen	Check Aerotech controller, co-focus WFSs, setup chopper & delay	1	4.00	Roberts	N	N
4	14:00	15:00	BTO setup					closed	zen	Setup hardware & software, check servo control.	1	1.00	Bouchez	N	N
5	15:00	17:00	LLT alignment and checkout					closed	zen	Align stimulus laser to LLT. Requires 2 personnel at PF.	1	2.00	Petrie	N	N
6	14:00	17:00	Prepare laser for observing					closed	NA	Final alignment and testing of laser, control loops.	1	3.00	Tripathi	N	N
	15:30	16:00	<i>status and safety meeting</i>									0.50			
7	16:00	16:30	Test safety interlocks					closed	NA	Install barriers and test interlocks.	1	0.50	Cromer		
8	16:30	17:30	Verify BTO alignment					closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N
9	18:30	19:30	Calibrate PHARO					closed	NA	Calibrate centroids for both refl. spot & dichroic.	1	1.00	Burruss		
	18:30	19:30	<i>dinner</i>									1.00			
10	20:15	20:45	AO Checkout					NGS	V=8	Measure seeing, NGS performance.	1	0.50	Burruss	N	N
11	20:45	21:45	LLT boresighting					LGS	zen	Project at zenith; Check boresighting, align finderscope on star	1	1.00	Bouchez	N	N
12	21:45	23:15	LLT image quality					LGS	zen	Optimize LGS spot size by translating LLT secondary.	2	1.50	Petrie	N	N
13	23:15	23:45	LGS zenith optimization					LGS	zen	Complete LGS acquisition & zenith optimization test plans	1	0.50	Roberts	N	N
14	23:45	0:45	Circular polarization experiment					LGS	zen	Repeat Jul. 06 experiment. Requires person at prime focus.	2	1.00	Bouchez	Y	N
15	0:45	2:45	LGS HO aberrations					LGS	V=10	Check HO performance on PHARO, on extended NGS (Neptune)	1	2.00	Roberts	Y	Y
16	2:45	4:45	LGS LO performance					LGS	V=16	Follow full TT optimization test plan for V=16, 17 stars.	1	2.00	Roberts	Y	Y
17	4:45	5:15	AO f-ratio tests					NGS	V=6	Measure platscale at LOWFS focus on binary	1	0.50	Bouchez	N	N

05/24/07			19:54	20:48	16:23	4:40	5:34							
1	12:00	16:00	AO bench setup and checkout			closed	zen	Take data for summer student (telescope moves required)	1	4.00	Roberts	N	N	N
2	14:00	17:00	Prepare laser for observing			closed	NA	Final alignment and testing of laser, control loops.	1	3.00	Tripathi	N	N	N
	15:30	16:00	<i>status and safety meeting</i>							0.50				
3	16:00	16:30	Test safety interlocks			closed	NA	Install barriers and test interlocks.	1	0.50	Cromer			
4	16:30	17:30	Verify BTO alignment			closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	N
	18:00	19:00	<i>dinner</i>							1.00				
5	20:15	20:45	AO Checkout			NGS	V=8	Measure seeing, NGS performance.	1	0.50	Hickey	N	N	N
6	20:45	21:45	Test LLT Pulnix			NGS	V=3		1	1.00	Moore	N	N	N
7	21:45	22:15	LGS acquisition			LGS	zen	Project laser at zenith, focus	1	0.50	Troy	Y	N	Y
8	22:15	22:45	LGS bright star optimization			LGS	V=10	Optimize and measure Strehl	1	0.50	Bouchez	Y	N	Y
8	22:15	4:15	LGS science demo			LGS	V=15	Observe 3 science targets and test PHARO scripts	2	6.00	Bouchez	Y	Y	Y

05/25/07			19:55	20:49	16:27	4:39	5:33							
1	14:30	15:30	Prepare laser for observing			closed	NA	Final alignment and testing of laser, control loops.	1	1.00	Tripathi	N	N	N
	15:30	16:00	<i>status and safety meeting</i>							0.50				
2	16:00	16:30	Test safety interlocks			closed	NA	Install barriers and test interlocks.	1	0.50	Cromer			
3	16:30	17:30	Verify BTO alignment			closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	N
	18:00	19:00	<i>dinner</i>							1.00				
4	20:15	20:45	AO Checkout			NGS	V=8	Measure seeing, NGS performance.	2	0.50	Burruss	N	N	N
5	20:45	21:30	LGS acquisition			LGS	zen	Project laser at zenith, focus, UTT optimization	1	0.75	Bouchez	Y	N	Y
6	21:30	4:30	Shared-risk Science			LGS	V=17	LGS-AO Multiplicity and Planet Formation at Bottom of IMF	1	7.00	Beichman	Y	N	Y

05/26/07			19:56	20:50	16:31	4:39	5:33							
1	14:30	15:30	Prepare laser for observing			closed	NA	Final alignment and testing of laser, control loops.	1	1.00	Tripathi	N	N	N
	15:30	16:00	<i>status and safety meeting</i>							0.50				
2	16:00	16:30	Test safety interlocks			closed	NA	Install barriers and test interlocks.	1	0.50	Cromer			
3	16:30	17:30	Verify BTO alignment			closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	N
	18:00	19:00	<i>dinner</i>							1.00				
4	20:15	20:45	AO Checkout			NGS	V=8	Measure seeing, NGS performance.	1	0.50	Hickey	N	N	N
5	20:45	21:30	LGS acquisition			LGS	zen	Project laser at zenith, focus, UTT optimization	1	0.75	Troy	Y	N	Y
6	21:30	4:30	Shared-risk Science			LGS	V=17	LGS-AO Multiplicity and Planet Formation at Bottom of IMF	1	7.00	Beichman	Y	N	Y