

Palomar LGSAO test schedule
23-28 July 2007 (local)

v1.0: 07/18/07 - AB & JR

Spotters requested 20:15 - 05:00 PDT (on station 20:55 - 04:50)

Test ID	PDT start	PDT end	suns	12°	Test Name	12°	sunr	Obs mode	Target	Description	Priority	Duration	Lead	Clear sky	r0>10cm	Laser
07/23/07			20:02	20:56	20:19	4:53	5:46									
1	9:00	12:00	Install LLT					closed	zen		1	3.00	Sweet	N	N	N
2	12:00	15:30	AO bench setup and checkout					closed	zen	Setup Aerotech controller, WFSs, chopper & delay generator.	1	3.50	Roberts	N	N	N
3	13:30	17:30	Prepare laser for observing					closed	NA	Final adjustment and testing of laser, control loops.	1	4.00	Tripathi	N	N	N
	15:30	16:00	<i>status and safety meeting</i>									0.50				
4	16:00	16:30	Set up & test safety systems					closed	NA	Install hazard signs, barriers and test interlocks.	1	0.50	Cromer	N	N	N
5	16:30	17:30	BTO & LLT alignment					closed	zen	Check BTO and align LLT with stimulus laser.	1	1.00	Bouchez	N	N	660
6	17:30	18:30	Laser/BTO/LLT integrated test					closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	Y
	18:30	19:30	<i>dinner</i>									1.00				
7	20:30	21:00	AO Checkout					NGS	V=8	Measure seeing, NGS performance.	1	0.50	Hickey	N	N	N
8	21:00	22:00	LGS acq. & LLT boresighting					LGS	zen	Measure LGS size & flux at zenith; adjust boresighting if needed.	1	1.00	Bouchez	N	N	Y
9	22:00	0:00	LLT image quality					LGS	zen	Optimize LGS spot size by translating LLT secondary.	2	2.00	Petrie	N	N	Y
10	0:00	1:00	LGS bright star optimization					LGS	V=11	Optimize performance on a bright star; measure Strehl.	1	1.00	Bouchez	Y	Y	Y
11	1:00	2:30	Circular polarization exp.					LGS	zen	Repeat Jul. 06 experiment. Requires person at prime focus.	2	1.50	Bouchez	Y	N	Y
12	2:30	4:00	LGS science demo					LGS	V=15	Observe 1 science target.	2	1.50	Bouchez	Y	Y	Y
13	4:00	5:00	LOWFS vignetting					NGS	V=10	Check vignetting on LOWFS at various positions in patrol field.	2	1.00	Roberts	N	N	N
07/25/07			20:01	20:54	20:27	4:54	5:47									
1	15:30	17:30	Prepare laser for observing					closed	NA	Check laser power, wavefront quality, frequency lock.	1	2.00	Tripathi	N	N	N
	15:30	16:00	<i>status and safety meeting</i>									0.50				
2	16:00	16:30	Set up & test safety systems					closed	NA	Install hazard signs, barriers and test interlocks.	1	0.50	Cromer	N	N	N
3	16:30	17:30	BTO & LLT alignment					closed	zen	Check BTO and align LLT with stimulus laser.	1	1.00	Bouchez	N	N	660
4	17:30	18:30	Laser/BTO/LLT integrated test					closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	Y
	18:30	19:30	<i>dinner</i>									1.00				
5	20:30	21:00	AO Checkout					NGS	V=8	Measure seeing, NGS performance.	1	0.50	Hickey	N	N	N
6	21:00	22:00	LGS acquisition & checkout					LGS	V=11	Measure LGS size & flux at zenith; performance on V=11 NGS.	1	1.00	Roberts	Y	N	Y
7	22:00	4:00	LGS science demo					LGS	V=16	Observe 3 science targets.	2	6.00	Bouchez	Y	Y	Y
8	4:00	5:00	Isoplanatic angle					LGS	V=15	Compare LGS & NGS isoplanatic angle.	3	1.00	Bouchez	Y	Y	Y

07/26/07			20:00	20:53	20:31	4:55	5:48						
1	15:30	17:30	Prepare laser for observing	closed	NA	Check laser power, wavefront quality, frequency lock.	1	2.00	Tripathi	N	N	N	
	15:30	16:00	<i>status and safety meeting</i>					0.50					
2	16:00	16:30	Set up & test safety systems	closed	NA	Install hazard signs, barriers and test interlocks.	1	0.50	Cromer	N	N	N	
3	16:30	17:30	BTO & LLT alignment	closed	zen	Check BTO and align LLT with stimulus laser.	1	1.00	Bouchez	N	N	660	
4	17:30	18:30	Laser/BTO/LLT integrated test	closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	Y	
	18:30	19:30	<i>dinner</i>					1.00					
5	20:30	21:00	AO Checkout	NGS	V=8	Measure seeing, NGS performance.	1	0.50	Hickey	N	N	N	
6	21:00	22:00	LGS acquisition & checkout	LGS	V=11	Measure LGS size & flux at zenith; performance on V=11 NGS.	1	1.00	Roberts	Y	N	Y	
7	22:00	5:00	Shared-risk Science	LGS	V=17	LGS-AO Multiplicity and Planet Formation at Bottom of IMF	1	7.00	Kulkarni	Y	N	Y	

07/27/07			19:59	20:52	20:35	4:56	5:49							
1	15:30	17:30	Prepare laser for observing	closed	NA	Check laser power, wavefront quality, frequency lock.	1	2.00	Tripathi	N	N	N		
	15:30	16:00	<i>status and safety meeting</i>					0.50						
2	16:00	16:30	Set up & test safety systems	closed	NA	Install hazard signs, barriers and test interlocks.	1	0.50	Cromer	N	N	N		
3	16:30	17:30	BTO & LLT alignment	closed	zen	Check BTO and align LLT with stimulus laser.	1	1.00	Bouchez	N	N	660		
4	17:30	18:30	Laser/BTO/LLT integrated test	closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	Y		
	18:30	19:30	<i>dinner</i>					1.00						
5	20:30	21:00	AO Checkout	NGS	V=8	Measure seeing, NGS performance.	1	0.50	Hickey	N	N	N		
6	21:00	22:00	LGS acquisition & checkout	LGS	V=11	Measure LGS size & flux at zenith; performance on V=11 NGS.	1	1.00	Bouchez	Y	N	Y		
7	22:00	5:00	Shared-risk Science	LGS	V=17	LGS-AO Multiplicity and Planet Formation at Bottom of IMF	1	7.00	Lloyd	Y	N	Y		

07/28/07			19:59	20:51	20:39	4:57	5:49							
1	15:30	17:30	Prepare laser for observing	closed	NA	Check laser power, wavefront quality, frequency lock.	1	2.00	Tripathi	N	N	N		
	15:30	16:00	<i>status and safety meeting</i>					0.50						
2	16:00	16:30	Set up & test safety systems	closed	NA	Install hazard signs, barriers and test interlocks.	1	0.50	Cromer	N	N	N		
3	16:30	17:30	BTO & LLT alignment	closed	zen	Check BTO and align LLT with stimulus laser.	1	1.00	Bouchez	N	N	660		
4	17:30	18:30	Laser/BTO/LLT integrated test	closed	zen	Verify laser alignment to BTO in Coude, Dome, LLT.	1	1.00	Bouchez	N	N	Y		
	18:30	19:30	<i>dinner</i>					1.00						
5	20:30	21:00	AO Checkout	NGS	V=8	Measure seeing, NGS performance.	1	0.50	Hickey	N	N	N		
6	21:00	22:00	LGS acquisition & checkout	LGS	V=11	Measure LGS size & flux at zenith; performance on V=11 NGS.	1	1.00	Bouchez	Y	N	Y		
7	22:00	5:00	Shared-risk Science	LGS	V=17	LGS-AO Multiplicity and Planet Formation at Bottom of IMF	1	7.00	Lloyd	Y	N	Y		