

OBS09-006A: GeMS (Phase 3-4-5) (M. Boccas)

Name	Duration	hh mm	Work Hou	Percent Cor	Start Date	End Date	Task Owner	Resources
-GeMS Project (phase 3-4-5)	746d	5h 11m	20,466.25	14.80%	Feb 23 2009 15:30	Feb 14 2012 21:41		
-Phase 3: I&T at CP and on telescope	511d	3h	5,726.65	41.89%	Feb 23 2009 15:30	Mar 09 2011 18:30		
-Infrastructure	312d	7h	284.00	97.18%	Aug 10 2009 15:30	Nov 09 2010 00:30		
Support structure telescope impact characterization	2d		16.00	100.00%	Aug 10 2009 15:30	Aug 12 2009 15:30	Rolando Rogers	
LSS+LSE telescope impact characterization	2d		8.00	100.00%	Aug 12 2009 15:30	Aug 14 2009 15:30	Rolando Rogers (50.00%)	
SyE support for LSS+LSE charact.	2d		8.00	100.00%	Aug 12 2009 15:30	Aug 14 2009 15:30	Gelys Trancho (50.00%)	
ME support for LSS+LSE charact.	2d		16.00	100.00%	Aug 12 2009 15:30	Aug 17 2009 15:30	Gabriel Perez	
Full infrastructure load telescope impact characterization	1d		8.00	100.00%	Aug 24 2009 17:00	Aug 25 2009 17:00	Rolando Rogers	
SyE support fro full load charact.			8.00	100.00%	Aug 24 2009 17:00	Aug 24 2009 17:00	Gelys Trancho	
caulking job on flanges	15d		24.00	100.00%	Feb 01 2010 15:30	Feb 20 2010 00:30		
SS final painting	15d		24.00	100.00%	Feb 01 2010 15:30	Feb 20 2010 00:30		
design and procure furniture for LSE	10d		8.00	100.00%	Apr 26 2010 14:30	May 07 2010 23:30	Vincent Fesquet (10.00%)	
balance air flow system in LSE	2d		8.00	100.00%	Apr 26 2010 14:30	Apr 27 2010 23:30	Paul Collins (50.00%)	
do metrology of 6 pads to elevation axis	1d		8.00	100.00%	Apr 27 2010 14:30	Apr 27 2010 23:30	Fabian Collao	
-LSE integration and testing on telescope	172d	30m	132.00	100.00%	Aug 24 2009 17:00	Apr 30 2010 17:30		
SyE LSE misc. integration on tel	5d		0.00	100.00%	Aug 24 2009 17:00	Aug 31 2009 17:00	Gelys Trancho (0.00%)	
ME LSE misc. integration on tel	10d		40.00	100.00%	Aug 24 2009 17:00	Sep 10 2009 21:00	Pablo Diaz (22.43%)	Gabriel Perez (11.94%), Chas Cavedoni (17.78%)
LSE epics interface implementation	9d	3h	20.00	100.00%	Apr 19 2010 14:30	Apr 30 2010 17:30		
LSE AHU thermal tests	4d		56.00	100.00%	Aug 24 2009 17:00	Aug 28 2009 17:00	Paul Collins (62.50%)	Gabriel Perez (62.50%), Gelys Trancho (25.00%), Gustavo Alarcon (25.00%)
LSE AHU vibration tests	2d		16.00	100.00%	Aug 28 2009 17:00	Sep 01 2009 17:00	Gaston Gausachs	
LSE integration and testing on the telescope completed (except temp)			0.00	100.00%	Jul 12 2010 21:00	Jul 12 2010 21:00		
install HW interlock to AHU	1d		8.00	0.00%	Nov 08 2010 15:30	Nov 09 2010 00:30	Paul Collins	
finalize LSE AT (temp control)	5d		8.00	100.00%	Oct 04 2010 14:30	Oct 08 2010 23:30	Gelys Trancho (20.00%)	
-GS Laser I&T on telescope	193d	7h	2,224.00	80.83%	Mar 24 2010 15:30	Jan 04 2011 15:30		
-GS Laser System integration in LSE	193d	7h	1,494.00	89.56%	Mar 24 2010 15:30	Jan 04 2011 00:30		
GS laser installed in LSE			0.00	100.00%	Jul 14 2010 14:30	Jul 14 2010 14:30	Celine D Orgeville	
-GS laser integration in LSE completed tasks	130d	7h	1,320.00	100.00%	Mar 24 2010 15:30	Sep 29 2010 23:30	Celine D Orgeville	
Gs laser documentation review	100d	2h	130.00	100.00%	Mar 24 2010 15:30	Jul 26 2010 19:30	Celine D Orgeville (2.96%)	Felipe Daruich (3.19%), Vincent Fesquet (5.92%), Rolando Rogers (3.07%), Gaston Gausachs (2.96%), Robert Wyman (1
LE for laser integration in LSE	10d		180.00	100.00%	Jul 14 2010 14:30	Jul 26 2010 18:30	Vincent Fesquet (133.33%)	Richard Oram (88.89%), Celine D Orgeville (66.67%)
OE for laser integration in LSE	5d		40.00	100.00%	Jul 14 2010 14:30	Jul 21 2010 23:30	Tomislav Vucina	
EE for laser integration in LSE	5d		40.00	100.00%	Jul 14 2010 14:30	Jul 21 2010 23:30	Felipe Daruich	
fix crystal temp controller	15d		48.00	100.00%	Aug 16 2010 14:30	Sep 03 2010 23:30	Felipe Daruich (33.33%)	Vincent Fesquet (6.67%)
Implement GS laser data-logging on GEA	1d		11.00	100.00%	Sep 29 2010 14:30	Sep 29 2010 23:30	Celine D Orgeville (12.50%)	Vincent Fesquet (12.50%), Gelys Trancho (12.50%), Cristian Urrutia
fabricate custom laser computer table	5d		40.00	0.00%	Nov 02 2010 15:30	Nov 09 2010 00:30		
fabricate folding bench	5d		40.00	0.00%	Nov 09 2010 15:30	Nov 16 2010 00:30		
review and connect clean air to laser bench volume	1d		4.00	0.00%	Jan 03 2011 15:30	Jan 04 2011 00:30		Vincent Fesquet (50.00%)
Finalize GS laser remote computer control access configuration	1d		14.00	50.00%	Sep 27 2010 14:30	Sep 27 2010 23:30	Celine D Orgeville (25.00%)	Vincent Fesquet (50.00%), #ISG Technician
Implement GS laser automatic monthly data logging on external drive	1d		11.00	50.00%	Sep 28 2010 14:30	Sep 28 2010 23:30	Celine D Orgeville (12.50%)	Vincent Fesquet (12.50%), Gelys Trancho (12.50%), #ISG Technician
Install new (working!) polycom in GS LSE	1d		9.00	0.00%	Oct 25 2010 15:30	Oct 26 2010 00:30	#ISG Technician	Celine D Orgeville (12.50%)
Develop GS laser EPICS IF DM screens	60d		56.00	10.00%	Sep 13 2010 17:30	Dec 10 2010 18:30	Celine D Orgeville (1.67%)	Gelys Trancho (0.83%), Arturo Nunez (8.33%), Vincent Fesquet (0.83%)
Milestone: All pending GS laser I&T tasks completed (alignment work not included)			0.00	0.00%	Jan 04 2011 15:30	Jan 04 2011 15:30	Celine D Orgeville	
-GS laser alignment and optimization to performance specifications	85d		636.00	68.55%	Aug 23 2010 14:30	Dec 24 2010 00:30		
Set up LSE for final GS laser alignment	15d		100.00	100.00%	Aug 23 2010 14:30	Sep 10 2010 23:30	Vincent Fesquet (66.67%)	Paul Collins (16.67%)
Align GS laser 1064 oscillator	10d		64.00	100.00%	Sep 13 2010 14:30	Sep 27 2010 23:30	Vincent Fesquet (80.00%)	
Contingency to align GS laser 1064 oscillator	5d		32.00	100.00%	Sep 28 2010 14:30	Oct 04 2010 23:30	Vincent Fesquet (80.00%)	
Align GS laser 1319 oscillator	10d		64.00	100.00%	Oct 05 2010 14:30	Oct 20 2010 00:30	Vincent Fesquet (80.00%)	
Contingency to align GS laser 1319 oscillator			0.00	100.00%	Oct 20 2010 15:30	Oct 20 2010 15:30	Vincent Fesquet	
Align GS laser 1064 amplifiers	10d		96.00	100.00%	Oct 20 2010 15:30	Nov 04 2010 00:30	Vincent Fesquet (80.00%)	Celine D Orgeville (40.00%)
Contingency to align GS laser 1064 amplifiers			0.00	100.00%	Nov 04 2010 15:30	Nov 04 2010 15:30	Vincent Fesquet (0.00%)	#ENG Contractor (0.00%)
Align GS laser 1319 amplifiers	5d		48.00	100.00%	Nov 04 2010 15:30	Nov 11 2010 00:30	Vincent Fesquet (120.00%)	#ENG Contractor (0.00%)

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Contingency to align GS laser 1319 amplifiers			0.00	100.00%	Nov 11 2010 15:30	Nov 11 2010 15:30	Vincent Fesquet	
Align GS laser 589 output and diagnostics	10d		64.00	50.00%	Nov 11 2010 15:30	Nov 25 2010 00:30	Vincent Fesquet (80.00%)	#ENG Contractor (0.00%)
Contingency to align GS laser 589 output and diagnostics	5d		48.00	0.00%	Nov 25 2010 15:30	Dec 02 2010 00:30	Vincent Fesquet (80.00%)	Celine D Orgeville (40.00%)
Cumulated remaining contingency	15d		120.00	0.00%	Dec 02 2010 15:30	Dec 24 2010 00:30	Vincent Fesquet	
Milestone: GS laser at spec and ready for propagation through BTO			0.00	0.00%	Dec 27 2010 15:30	Dec 27 2010 15:30	Vincent Fesquet	
+GS laser spares procurement	40d		94.00	25.11%	Sep 27 2010 14:00	Nov 24 2010 00:30		
-GS BTO I&T on telescope	126d		553.00	7.23%	Aug 16 2010 14:30	Feb 16 2011 15:30		
-GS BTO pending phase 2 task milestones	7d		56.00	0.00%	Nov 23 2010 15:00	Dec 02 2010 15:30	Maxime Boccas	
milestone: end BTO troubleshooting phase (at zenith)			0.00	0.00%	Dec 02 2010 15:30	Dec 02 2010 15:30	Maxime Boccas	
BTO motor controlled debugged			0.00	0.00%	Nov 23 2010 15:00	Nov 23 2010 15:00	Angelic Ebbers	
BTO LUT and offloads implemented			0.00	0.00%	Nov 26 2010 15:30	Nov 26 2010 15:30	Roberto Rojas	
Final BTO AT successful			0.00	0.00%	Nov 26 2010 15:30	Nov 26 2010 15:30	Gelys Trancho	
GS BTO aligned with surrogate laser at zenith, ready for elevation tests			0.00	0.00%	Nov 29 2010 15:30	Nov 29 2010 15:30	Maxime Boccas	
-GS BTO optical testing vs elevation	11d		144.00	0.00%	Nov 29 2010 15:30	Dec 15 2010 00:30		
Move telescope, create EFM LUT, implement in BTO SW, and test vs elevation	1d		24.00	0.00%	Nov 29 2010 15:30	Nov 30 2010 00:30	Celine D Orgeville	Francois Rigaut (50.00%), Tomislav Vucina, Roberto Rojas (50.00%)
Move telescope, create TPM LUT, implement in BTO SW, and test vs elevation	1d		24.00	0.00%	Nov 30 2010 15:30	Dec 01 2010 00:30	Celine D Orgeville	Francois Rigaut (50.00%), Roberto Rojas (50.00%), Tomislav Vucina
Move telescope, create TCM LUT, implement in BTO SW, and test vs elevation	1d		24.00	0.00%	Dec 01 2010 15:30	Dec 02 2010 00:30	Celine D Orgeville	Francois Rigaut (50.00%), Roberto Rojas (50.00%), Tomislav Vucina
Move telescope, create TRA LUT, implement in BTO SW, and test vs elevation	1d		24.00	0.00%	Dec 02 2010 15:30	Dec 03 2010 00:30	Celine D Orgeville	Roberto Rojas (50.00%), Tomislav Vucina, Francois Rigaut (50.00%)
Contingency to create BTO EFM-TPM-TCM-TRA LUTs	5d		0.00	0.00%	Dec 03 2010 15:30	Dec 11 2010 00:30	Celine D Orgeville (0.00%)	
test E Pol control	2d		32.00	0.00%	Dec 13 2010 15:30	Dec 15 2010 00:30	Francois Rigaut	Tomislav Vucina
write BTO LUT determination procedure	2d		16.00	0.00%	Dec 13 2010 15:30	Dec 15 2010 00:30	Celine D Orgeville	
Milestone: BTO ready for laser			0.00	0.00%	Dec 13 2010 15:30	Dec 13 2010 15:30	Celine D Orgeville	
+LBBS I&T on telescope	16d		237.00	0.00%	Jan 25 2011 15:30	Feb 16 2011 00:30		
Milestone: LBBS ready for laser propagation "at varying elevation"			0.00	0.00%	Feb 16 2011 15:30	Feb 16 2011 15:30	Gelys Trancho	
+GS BTO I&T miscellaneous (not on critical path)	126d		116.00	34.48%	Aug 16 2010 14:30	Feb 16 2011 00:30		
+GS LGSF I&T on telescope	76d	1h	364.00	0.00%	Nov 03 2010 15:30	Feb 22 2011 16:30		
+Telescope Cooling service	450d	6h	208.00	28.85%	Feb 23 2009 15:30	Dec 10 2010 22:30		
+Canopus CP lab work	40d		1,088.65	20.39%	Nov 03 2010 15:30	Jan 01 2011 00:30		
Canopus CP lab work contingency	5d		0.00	0.00%	Jan 03 2011 15:30	Jan 08 2011 00:30	Benoit Neichel (0.00%)	
+GSAOI CP lab work (see ENG10-113 SW)	30d		3.00	100.00%	Sep 15 2010 14:30	Oct 29 2010 00:30		
+GeMS HLS readiness (link to ENG10-113 milestones)	21d		0.00	0.00%	Jan 03 2011 15:30	Feb 01 2011 15:30		
-Canopus + GSAOI integration on telescope	50d	3h	922.00	0.00%	Dec 13 2010 15:30	Feb 23 2011 18:30		
- Telescope installation	26d	3h	490.00	0.00%	Dec 13 2010 15:30	Jan 20 2011 18:30		
compile installation procedures	15d		40.00	0.00%	Dec 20 2010 15:30	Jan 12 2011 00:30	Gelys Trancho (33.33%)	
write technical procedure for canopus and GSAOI	10d		40.00	0.00%	Dec 13 2010 15:30	Dec 28 2010 00:30	Ramon Galvez (25.00%)	Gaston Gausachs (25.00%)
Install Canopus on telescope [MILESTONE]	1d		56.00	0.00%	Jan 06 2011 19:30	Jan 07 2011 19:30	Gaston Gausachs	Claudio Araya, Alejandro Gutierrez, Hector Figueroa, Herman Diaz, Laridan Jeria, Diego Maltes
align AO fold	1d		8.00	0.00%	Jan 10 2011 19:30	Jan 11 2011 19:30	Maxime Boccas (50.00%)	Tomislav Vucina (50.00%)
Canopus electro-mechanics testing on telescope	5d		160.00	0.00%	Jan 07 2011 19:30	Jan 14 2011 19:30	Ramon Galvez	Gaston Gausachs, Herman Diaz, Alejandro Gutierrez
Canopus software testing on telescope	5d		40.00	0.00%	Jan 07 2011 19:30	Jan 14 2011 19:30	Matthieu Bec	
Canopus optical alignment on telescope	2d		16.00	0.00%	Jan 07 2011 19:30	Jan 11 2011 19:30	Maxime Boccas	
End integration Canopus on telescope			0.00	0.00%	Jan 14 2011 19:30	Jan 14 2011 19:30		
install GSAOI on telescope		7h	42.00	0.00%	Jan 14 2011 19:30	Jan 17 2011 18:30	Gaston Gausachs	Hector Figueroa, Alejandro Gutierrez, Claudio Araya, Diego Maltes, Laridan Jeria
GSAOI electronics+SW testing on telescope	2d		48.00	0.00%	Jan 17 2011 18:30	Jan 19 2011 18:30	Ramon Galvez	Alejandro Gutierrez, Matthieu Bec
coalign GSAOI-Canopus on telescope (SF fold-pupil-focus)	1d		40.00	0.00%	Jan 19 2011 18:30	Jan 20 2011 18:30	Maxime Boccas	Gaston Gausachs, Benoit Neichel, Gelys Trancho, Francois Rigaut
end GSAOI-Canopus installation on telescope			0.00	0.00%	Jan 20 2011 18:30	Jan 20 2011 18:30		
-NCPA	10d		160.00	0.00%	Jan 20 2011 18:30	Feb 03 2011 18:30		
NCPA compensation in 1 direction	1d		16.00	0.00%	Jan 20 2011 18:30	Jan 21 2011 18:30	Benoit Neichel	Francois Rigaut
NCPA compensation in the field	2d		32.00	0.00%	Jan 21 2011 18:30	Jan 25 2011 18:30	Benoit Neichel	Francois Rigaut
NCPA automatic scheme	2d		32.00	0.00%	Jan 25 2011 18:30	Jan 27 2011 18:30	Benoit Neichel	Francois Rigaut
NCPA vs. control matrix	3d		48.00	0.00%	Jan 27 2011 18:30	Feb 01 2011 18:30	Benoit Neichel	Francois Rigaut

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NCPA vs. elevation vs. CassRot	2d		32.00	0.00%	Feb 01 2011 18:30	Feb 03 2011 18:30	Benoit Neichel	Francois Rigaut
-Performance	5d		88.00	0.00%	Feb 03 2011 18:30	Feb 10 2011 18:30		
NGS (TT and TA) loop optimization	1d		16.00	0.00%	Feb 03 2011 18:30	Feb 04 2011 18:30	Benoit Neichel	Francois Rigaut
LGS loop optimization	1d		16.00	0.00%	Feb 04 2011 18:30	Feb 07 2011 18:30	Benoit Neichel	Francois Rigaut
LGS cMat vs. Elevation	1d		16.00	0.00%	Feb 07 2011 18:30	Feb 08 2011 18:30	Benoit Neichel	Francois Rigaut
Extrapolator optimization	1d		16.00	0.00%	Feb 08 2011 18:30	Feb 09 2011 18:30	Benoit Neichel	Francois Rigaut
Full performance test	1d		24.00	0.00%	Feb 09 2011 18:30	Feb 10 2011 18:30	Benoit Neichel	Gelys Trancho, Francois Rigaut
+Miscellaneous	9d		184.00	0.00%	Feb 10 2011 18:30	Feb 23 2011 18:30		
Canopus + GSAOI on-telescope contingency	10d		80.00	0.00%	Feb 23 2011 18:30	Mar 09 2011 18:30		
-Phase 4: telescope technical commissioning	378d		8,554.23	0.51%	Jun 29 2010 14:30	Dec 31 2011 00:30		
-GS laser ops training in 2010	40d	6h 30m	108.00	0.00%	Nov 02 2010 15:30	Dec 30 2010 23:00		
Read GS laser ops manual and other documentation	20d		44.00	0.00%	Nov 02 2010 15:30	Nov 30 2010 00:30	Tomislav Vucina (25.00%)	Vincent Fesquet (2.50%)
Prepare GS laser ops training plan	20d		40.00	0.00%	Nov 03 2010 15:00	Nov 30 2010 23:00	Celine D Orgeville (12.62%)	Richard Oram (7.41%), Vincent Fesquet (6.31%)
Train GS laser operator to level 1 ops during day-time	20d		24.00	0.00%	Nov 30 2010 23:00	Dec 30 2010 23:00	Vincent Fesquet (5.00%)	Celine D Orgeville (8.94%), Tomislav Vucina (5.00%)
-GS LGSF night-time commissioning	166d	1h	1,229.75	3.54%	Jun 29 2010 14:30	Feb 25 2011 16:30		
+GS LGSF July 2010 telescope shutdown	23d		43.50	100.00%	Jun 29 2010 14:30	Jul 30 2010 23:30		
-GS BTO on-sky alignment of CM-KM-PM with NGS		4h 30m	5.50	0.00%	Dec 02 2010 15:30	Dec 02 2010 20:00		
GS BTO on-sky alignment of CM-KM-PM with NGS: start date			0.00	0.00%	Dec 02 2010 15:30	Dec 02 2010 15:30	Maxime Boccas	
GS BTO on-sky alignment of CM-KM-PM with NGS: end date			0.00	0.00%	Dec 02 2010 15:30	Dec 02 2010 15:30	Maxime Boccas	
-GS BTO on-sky pre-commissioning checks with NGS: night plan		4h 30m	5.50	0.00%	Dec 02 2010 15:30	Dec 02 2010 20:00		
Point Gemini telescope to bright star		30m	0.50	0.00%	Dec 02 2010 15:30	Dec 02 2010 16:00	#SSA GS	
Align PM and CM to center NGS on BTO NF and FF diagnostic cameras		1h	2.00	0.00%	Dec 02 2010 16:00	Dec 02 2010 17:00	Maxime Boccas	Francois Rigaut
Rotate KM and characterize NGS image rotation on diagnostic cameras		30m	0.50	0.00%	Dec 02 2010 17:00	Dec 02 2010 17:30	Francois Rigaut	
Derive PM/CM LUT vs KM angle		2h	2.00	0.00%	Dec 02 2010 17:30	Dec 02 2010 19:30	Francois Rigaut	
Implement PM/CM LUT vs KM angle in BTO software and test on-sky		30m	0.50	0.00%	Dec 02 2010 19:30	Dec 02 2010 20:00	Francois Rigaut	
Contingency to remove BTOOB from LLT and realign CM-KM-PM in the lab if BTO night testi	15d		120.00	0.00%	Dec 02 2010 21:00	Jan 11 2011 20:00	Maxime Boccas (28.85%)	Celine D Orgeville (50.00%)
Focus LLT for 589nm imaging using LLT focus knob (day-time)	1d		4.00	0.00%	Jan 11 2011 21:00	Jan 12 2011 20:00	Tomislav Vucina (50.00%)	
Milestone: GS LGSF ready for on-sky commissioning "at zenith" WITHOUT polarization optimization			0.00	0.00%	Jan 18 2011 19:30	Jan 18 2011 19:30	Celine D Orgeville	
Milestone: GS LGSF ready for on-sky laser commissioning "at zenith" WITH polarization			0.00	0.00%	Jan 27 2011 19:30	Jan 27 2011 19:30	Celine D Orgeville	
+GS LGSF on-sky commissioning "at zenith" (run#1)	33d		470.25	0.00%	Dec 02 2010 19:30	Jan 21 2011 19:30		
+GS LGSF on-sky commissioning "vs elevation" (run#2)	23d		586.50	0.00%	Jan 25 2011 16:30	Feb 25 2011 16:30		
Milestone: GS LGSF usable for GeMS on-sky commissioning			0.00	0.00%	Feb 25 2011 16:30	Feb 25 2011 16:30		
LGSF ready for Canopus commissioning			0.00	0.00%	Feb 25 2011 16:30	Feb 25 2011 16:30		
+GS LGSF ops support through remainder of 2011	216d		1,982.00	0.00%	Feb 21 2011 15:30	Dec 31 2011 00:30		
GeMS night-time commissioning planning	90d		80.00	0.00%	Feb 25 2011 16:30	Jul 05 2011 15:30	Gelys Trancho (5.56%)	Benoit Neichel (5.56%)
Declare MCAO-GSAOI ready for night-time			0.00	0.00%	Mar 09 2011 18:30	Mar 09 2011 18:30		
-GeMS night-time technical commissioning	194d	2h	3,766.48	0.00%	Mar 18 2011 18:30	Dec 28 2011 22:30		
-Technical run #1	5d	4h	423.00	0.00%	Mar 18 2011 18:30	Mar 25 2011 23:30		
acquire laser spots on LGSWFS		4h	36.00	0.00%	Mar 18 2011 18:30	Mar 18 2011 23:30	Francois Rigaut	Vincent Fesquet, Gelys Trancho, Matthieu Bec, Chad Trujillo, Celine D Orgeville, Benoit Neichel, #SSA GS, Maxime Boccas
measure fratricide effects on WFS		3h	27.00	0.00%	Mar 21 2011 14:30	Mar 21 2011 17:30	Francois Rigaut	#SSA GS, Matthieu Bec, Gelys Trancho, Celine D Orgeville (100.01%), Vincent Fesquet, Maxime Boccas, Benoit Neichel, C
close MCAO HO loop on sky		3h	27.00	0.00%	Mar 21 2011 17:30	Mar 21 2011 21:30	Francois Rigaut	#SSA GS, Matthieu Bec, Chad Trujillo, Maxime Boccas, Celine D Orgeville, Vincent Fesquet, Benoit Neichel, Gelys Trancho
Acquire Interaction Matrix on-sky		3h	21.00	0.00%	Mar 21 2011 21:30	Mar 22 2011 15:30	Francois Rigaut	#SSA GS, Maxime Boccas, Matthieu Bec, Vincent Fesquet, Chad Trujillo, Benoit Neichel
close BTO-FSA offload loop		3h	27.00	0.00%	Mar 22 2011 15:30	Mar 22 2011 18:30	Francois Rigaut	Vincent Fesquet, Chad Trujillo, Celine D Orgeville, Benoit Neichel, Maxime Boccas, Matthieu Bec, #SSA GS, Gelys Trancho
test offload to M1		3h	24.00	0.00%	Mar 22 2011 18:30	Mar 22 2011 22:30	Francois Rigaut	#SSA GS, Gelys Trancho, Maxime Boccas, Chad Trujillo, Matthieu Bec, Benoit Neichel, Vincent Fesquet
Check FSA dithering for centroid gain optimization		4h	32.00	0.00%	Mar 22 2011 22:30	Mar 23 2011 17:30	Francois Rigaut	Celine D Orgeville, Benoit Neichel, Chad Trujillo, #SSA GS, Maxime Boccas, Matthieu Bec, Vincent Fesquet
Check High-Order stability and quick perf optim		6h	48.00	0.00%	Mar 23 2011 17:30	Mar 24 2011 15:30	Francois Rigaut	#Astronomer GS, Vincent Fesquet, #SSA GS, Chad Trujillo, Matthieu Bec, Maxime Boccas, Benoit Neichel
LGS zoom calibration vs elevation		3h	21.00	0.00%	Mar 23 2011 17:30	Mar 23 2011 21:30	Francois Rigaut	#SSA GS, Matthieu Bec, Vincent Fesquet, Chad Trujillo, Maxime Boccas, Benoit Neichel
Close TT loop on 1 bright NGS		4h	32.00	0.00%	Mar 23 2011 21:30	Mar 24 2011 16:30	Francois Rigaut	Gelys Trancho, Benoit Neichel, Maxime Boccas, Chad Trujillo, Matthieu Bec, #SSA GS, Vincent Fesquet
Check astrometric mode on 1 bright NGS		3h	24.00	0.00%	Mar 24 2011 16:30	Mar 24 2011 20:30	Francois Rigaut	Chad Trujillo, Vincent Fesquet, #SSA GS, Benoit Neichel, Gelys Trancho, Matthieu Bec, Maxime Boccas
Test offloading to M2		3h	24.00	0.00%	Mar 24 2011 20:30	Mar 24 2011 23:30	Francois Rigaut	Maxime Boccas, Benoit Neichel, Gelys Trancho, #SSA GS, Matthieu Bec, Vincent Fesquet, Chad Trujillo

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Name	Duration	hh mm	Work Hou	Percent Cor	Start Date	End Date	Task Owner	Resources
GeMS tech run 1 coord+quality support			40.00	0.00%	Mar 21 2011 14:30	Mar 21 2011 14:30	Gelys Trancho	
SWHL support for run1	5d		40.00	0.00%	Mar 21 2011 14:30	Mar 25 2011 23:30	Javier Luhrs	
contingency run#1			0.00	0.00%	Mar 25 2011 14:30	Mar 25 2011 14:30		
+Technical run #2	5d	7h	405.00	0.00%	Apr 19 2011 14:30	Apr 27 2011 22:30		
+Technical run #3	5d	5h	386.00	0.00%	May 18 2011 22:30	May 26 2011 18:30		
+Technical run #4 (after shutdown)	6d		542.00	0.00%	Nov 10 2011 15:30	Nov 18 2011 00:30		
inter-run support, troubleshooting, upgrades, preps	50d		1,073.48	0.00%	Mar 21 2011 14:30	May 30 2011 23:30	Matthieu Bec (28.22%)	Francois Rigaut (28.22%), Vanessa Montes (20.16%), Ramon Galvez (28.22%), Benoit Neichel (26.21%), Chad Trujillo (38.00%)
GeMS technical commissioning run result analysis	110d		650.00	0.00%	Mar 21 2011 14:30	Aug 24 2011 23:30	Francois Rigaut (34.09%)	Chad Trujillo (5.68%), Benoit Neichel (34.09%)
contingency technical commissioning	30d		287.00	0.00%	Nov 15 2011 22:30	Dec 28 2011 22:30	Maxime Boccas (17.08%)	Gelys Trancho (17.08%), Benoit Neichel (17.08%), #SSA GS (17.08%), Vincent Fesquet (17.08%), Francois Rigaut (17.08%)
Declare MCAO technical commissioning complete			0.00	0.00%	Dec 28 2011 22:30	Dec 28 2011 22:30		
+GEMS Software Science Verification Tasks	212d		1,388.00	0.00%	Feb 01 2011 15:30	Dec 06 2011 00:30		
-Phase 5: LGSF/Canopus improvement shutdown	324d	1h	3,344.38	1.85%	Sep 15 2010 14:30	Jan 03 2012 16:30		
start shutdown at end of run #3			0.00	0.00%	May 26 2011 15:30	May 26 2011 15:30		
-Canopus descoped tasks	126d	7h 34m	872.40	2.34%	Dec 17 2010 15:30	Jun 16 2011 23:04		
-Descoped tasks not required in future	15d	6h 34m	400.30	1.87%	May 26 2011 15:30	Jun 16 2011 23:04		
design and build 2Fold Mirror Tip-Tilt mounts on pedestal (for Canopus-GSAOI coupling)	10d	6h 34m	120.00	6.25%	May 26 2011 15:30	Jun 09 2011 23:04	Gaston Gausachs (46.21%)	#Mechanical TechnicianCP (46.21%), #Draftman DraftmanGS (46.21%)
design and build flexure camera mount for flexure rig	5d		120.00	0.00%	Jun 09 2011 23:04	Jun 16 2011 23:04	Gaston Gausachs	#Mechanical TechnicianCP, #Draftman DraftmanGS
-Flexure test and characterisation (on flexure rig)	6d	6h 43m	144.30	0.00%	May 26 2011 15:30	Jun 03 2011 23:13		
install Canopus on flexure rig	1d		20.15	0.00%	May 26 2011 15:30	May 27 2011 15:30	Gaston Gausachs (83.96%)	Hector Figueroa (83.96%), Claudio Araya (83.96%)
Canopus flexure testing	3d		72.00	0.00%	May 27 2011 15:30	Jun 01 2011 15:30	Francois Rigaut	Matthieu Bec, Benoit Neichel
Other flex and temp tasks	2d		32.00	0.00%	Jun 01 2011 15:30	Jun 03 2011 15:30	Benoit Neichel	Francois Rigaut
remove Canopus from flexure rig and set up on cart		6h 43m	20.15	0.00%	Jun 03 2011 15:30	Jun 03 2011 23:13	Gaston Gausachs	Hector Figueroa, Claudio Araya
+coupling and preps	2d		16.00	0.00%	Jun 09 2011 23:04	Jun 13 2011 23:04		
-Descoped tasks required in future (shutdown)	122d	1h	472.10	2.73%	Dec 17 2010 15:30	Jun 10 2011 15:30		
OSL / AOM AT	5d		40.00	0.00%	Dec 17 2010 15:30	Dec 24 2010 00:30	Matthieu Bec	
Tip/Tilt drift - recheck effects and behaviour under different config and gravity vectors	3d		0.10	0.00%	May 27 2011 15:30	Jun 01 2011 15:30	Francois Rigaut (0.42%)	
+optical integration	11d		216.00	0.04%	May 26 2011 15:30	Jun 10 2011 15:30		
+Sci BS MEG	11d		88.00	0.00%	May 26 2011 15:30	Jun 10 2011 15:30		
+Sci ADC	3d		24.00	0.00%	May 26 2011 15:30	May 31 2011 15:30		
+Sci ADC System Validation	1d		8.00	0.00%	May 26 2011 15:30	May 27 2011 15:30		
+NGS ADC	3d		24.00	53.33%	May 26 2011 15:30	May 31 2011 15:30		
+NGS ADC System Validation	1d		8.00	0.00%	May 27 2011 15:30	May 30 2011 15:30		
AO verif: NGS ADC misc.	1d		32.00	0.00%	May 26 2011 15:30	May 27 2011 15:30	Benoit Neichel (200.00%)	Francois Rigaut (200.00%)
+Canopus-GSAOI integration	6d		32.00	0.00%	May 26 2011 15:30	Jun 03 2011 15:30		
+Canopus improvements	324d	1h	2,471.98	1.68%	Sep 15 2010 14:30	Jan 03 2012 16:30		
-GS laser improvement shutdown (included in project ENG11-095: GN and GS laser ops 150d)			0.00	0.00%	May 26 2011 15:30	Jan 03 2012 16:30		
Milestone: GS laser shutdown start date (based on Canopus improvement shutdown start date)			0.00	0.00%	May 26 2011 15:30	May 26 2011 15:30	Celine D Orgeville	
Milestone: GS laser shutdown end date (based on Canopus improvement shutdown end date)			0.00	0.00%	Jan 03 2012 16:30	Jan 03 2012 16:30	Celine D Orgeville	
GS laser shutdown duration based on ENG11-095: GN and GS laser ops reliability and efficiency improvements (R			0.00	0.00%	May 26 2011 15:30	May 26 2011 15:30	Celine D Orgeville	
end LGSF/Canopus hutdown and resume tech/science commissioning			0.00	0.00%	Jan 03 2012 16:30	Jan 03 2012 16:30		
-GeMS milestones	265d	1h	0.00	0.00%	Dec 13 2010 15:30	Jan 03 2012 16:30		
GM1: BTO ready for laser			0.00	0.00%	Dec 13 2010 15:30	Dec 13 2010 15:30		
GM2: laser system aligned and ready for BTO			0.00	0.00%	Dec 27 2010 15:30	Dec 27 2010 15:30		
GM3: Canopus installation on telescope			0.00	0.00%	Jan 06 2011 19:30	Jan 06 2011 19:30		
GM4: GSAOI installation on telescope			0.00	0.00%	Jan 14 2011 18:30	Jan 14 2011 18:30		
GM5: LGSF ready for commissioning run#1			0.00	0.00%	Jan 18 2011 19:30	Jan 18 2011 19:30		
GM6: LBBS commissioned			0.00	0.00%	Feb 16 2011 15:30	Feb 16 2011 15:30		
GM7: LGSF commissioning run#2			0.00	0.00%	Feb 22 2011 16:30	Feb 22 2011 16:30		
GM8: GeMS tech commissioning run#1			0.00	0.00%	Mar 18 2011 14:30	Mar 18 2011 14:30		
GM9: GeMS tech commissioning run#2			0.00	0.00%	Apr 19 2011 18:30	Apr 19 2011 18:30		

OBS09-006A: GeMS (Phase 3-4-5) (M. Boccas)

Name	Duration	hh mm	Work Hou	Percent Cor	Start Date	End Date	Task Owner	Resources
GM10: Gems tech commissioning #3			0.00	0.00%	May 18 2011 18:30	May 18 2011 18:30		
GM11: start LGSF/Canopus shutdown			0.00	0.00%	May 26 2011 15:30	May 26 2011 15:30		
GM12: end shutdown and resume tech/science commissioning run #4			0.00	0.00%	Jan 03 2012 16:30	Jan 03 2012 16:30		
+Management and documentation	475d	4h 11m	2,840.99	18.50%	Mar 24 2010 15:30	Feb 14 2012 21:41		
	746d	5h 11m	20,466.25	14.80%	Feb 23 2009 15:30	Feb 14 2012 21:41		