

GLAST LAT Instrument

*GLAST Monthly
Mission Review
May 2, 2007*



Monthly Mission Review

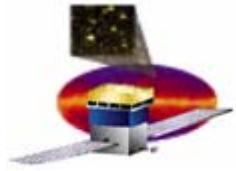
Project Status Overview

May 2, 2007

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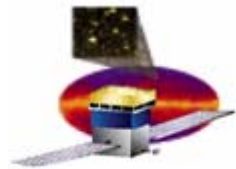


GLAST LAT Instrument

LAT Project Status

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-
- 4/12** **Observatory PER completed**
 - 4/12** **LAT Radiator dry fit/install complete**



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LAT Planned Milestones

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Activity

LAT MLI Closeout for EMI

LAT FSW 0-10-0

LAT Radiator Flight Install

LAT FSW 1-0-0

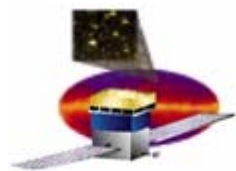
ECD

TBD

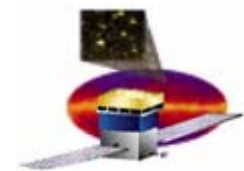
5/1/07

Pre-TVAC

6/26/07

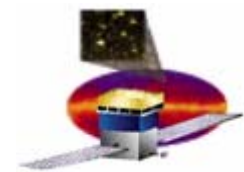


- ❑ **LICOS 3.0.0 released and installed on the MCR**
 - **.dbx (as opposed to LCAT) based C&T DB**
 - Solves command enumerations problem
 - **AlarmHandler update to allow sensitivity to configuration**
 - **Well tested against test bed, but:**
 - No trial run against the LAT yet
- ❑ **Bent pipe updates**
 - **Telemetry redaction is now .dbx based**
 - **Warns operators of NAKs and disconnects**
- ❑ **Preparing configurations for compatibility with FSW B0-10-0**
- ❑ **Configuration tool development (Populates MOOT DB)**
 - **LPA configurations built (still need verification)**
- ❑ **Handling of APIDs other than LPA, LCI and M7 from SSR**
- ❑ **Working TDFAnalysis issues (OSYS-143)**
- ❑ **MCR maintenance**
- ❑ **Various JIRAed bug fixes**



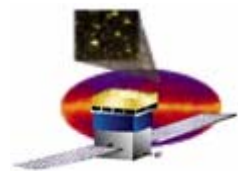
Online JIRA issues (as of 4/30)

Package	Issues opened since 3/5	Issues closed since 3/5	Total # of issues currently open
LICOS	19	23	8
LICOS_Config	4	11	4
LICOS_ETC	13	32	17
LICOS_Scripts	31	43	16
INT	2	9	17
LDF	0	0	1
LSF	0	0	0
E-Logbook	0	3	21
Totals	69	121	84



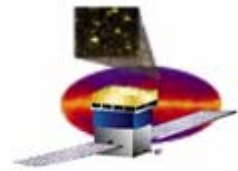
Top I&T Online JIRA issues

- ❑ **Updates for TVAC (LS-233)**
- ❑ **State dependent limit handling to avoid false, or irrelevant, alarms (LE-8)**
- ❑ **DFI integration into analyses (LS-88, LCS-72, LE-40, LE-38, LE-37, LE-36, LS-214)**



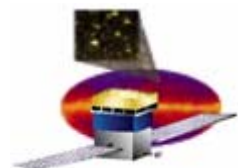
LAT Mechanical Ops prior to EMI

- ❑ **LAT alignments need to be complete since the LAT reflector ball locations are covered up by the LAT MLI.**
 - **GD needs to asses how many of these locations are required for interim alignment checks to minimize blanket removal each time)**
- ❑ **Re-route LAT test instrumentation wiring, tie down & put ends inside an EMI (conductive material) bag**
- ❑ **Re-route chiller lines (install 90 degree unions) to exit LAT MLI in a way that we can seal around for EMI testing**
- ❑ **Install patches on inside X-side blankets (per existing NCR)**
- ❑ **Close-out & tape LAT MLI.**



LAT Issues and Concerns

- ❑ **Observatory command and telemetry dropouts**
 - Reviewing command and telemetry logs for additional supporting data.
 - Responding to requests from GD for specific information related to known events.
 - LAT SE will continue to support GD when requested.
- ❑ **LAT Test Time**
 - **Additional LAT test time availability during EMI testing**
 - LICOS 3.0.0 trial run against the S/C + LAT
 - Install B0-10-0
 - Rerun Calibration runs
- ❑ **Observatory Schedule**
 - **LAT MLI closeout for EMI**
 - **Flight installation of LAT Radiators**
- ❑ **RS103 levels of 150V/M**
 - **Tests/analysis at CKC of the circuit at 80V/M show minimal risk**



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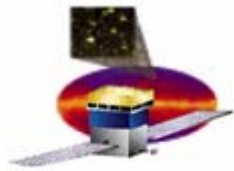


**Gamma-ray Large
Area Space
Telescope**



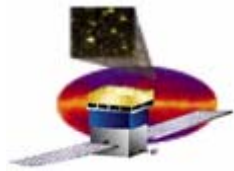
Cost Reports for 4.1 LAT

March 2007 Month End



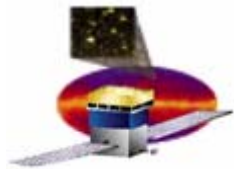
Cost Status by Organization

March 07 Month-End By Institution K\$	Current Period			Cumulative to Date			Budgeted at Completion
	Budgt'd Cost Work Scheduled	Actual Cost Work Performed	Cost Variance	Budgt'd Cost Work Scheduled	Actual Cost Work Performed	Cost Variance	
	DG *** GSFC	59	130	-71	21,051	20,490	
DH *** HEPL	151	95	56	11,051	10,451	600	12,029
DL *** SLAC	629	539	89	105,504	104,956	548	109,489
DN *** NRL	185	206	-21	34,193	34,175	18	35,456
DO *** Financial Plan Transfer/Sub Out	0	0	0	59	59	0	59
DS *** SSU	55	28	27	3,575	3,292	283	3,937
DT *** Texas A&M	0	0	0	15	15	0	15
DU *** UCSC	29	39	-11	2,827	2,765	63	3,034
DW *** UW	11	8	3	460	364	96	538
Sub Total	1,118	1,046	72	178,735	176,567	2,168	186,045
Contingency							2,010
Total	1,118	1,046	72	178,735	176,567	2,168	188,055



Cost by Orgs with Variances >\$100K

March 07 Month-End By Institution & WBS Level 3 (Variances > \$100K)	Current Period			Cumulative to Date			Budgeted at Completion
	Budgt'd Cost Work Scheduled	Actual Cost Work Performed	Cost Variance	Budgt'd Cost Work Scheduled	Actual Cost Work Performed	Cost Variance	
	DG *** GSFC						
4.1.1 INSTRUMENT MANAGEMENT	31	120	-89	1,896	1,488	408	2,139
4.1.6 ANTICOINCIDENCE DETECTOR	0	0	0	17,479	17,482	-3	17,479
4.1.D SCIENCE ANALYSIS SOFTWARE	28	11	18	1,298	1,142	156	1,493
4.1.E SUBORBITAL FLIGHT TEST	0	0	0	378	378	0	378
OBSTotals:	59	130	-71	21,051	20,490	561	21,489
DH *** HEPL							
4.1.1 INSTRUMENT MANAGEMENT	82	69	13	3,432	3,215	217	4,051
4.1.2 SYSTEM ENGINEERING	35	0	35	2,776	2,638	139	2,913
4.1.4 TRACKER	0	0	0	1,475	1,475	0	1,475
4.1.7 ELECTRONICS	0	0	0	1,021	1,019	2	1,021
4.1.A PERFORM & SAFETY ASSURANCE	0	0	0	263	248	16	263
4.1.B INSTRUMENT SCIENCE OPS CENTER	0	0	0	258	257	0	258
4.1.D SCIENCE ANALYSIS SOFTWARE	34	27	7	1,366	1,139	227	1,588
4.1.E SUBORBITAL FLIGHT TEST	0	0	0	460	461	0	460
OBSTotals:	151	95	56	11,051	10,451	600	12,029
DL *** SLAC							
4.1.1 INSTRUMENT MANAGEMENT	34	16	19	14,274	14,218	56	14,495
4.1.2 SYSTEM ENGINEERING	158	121	38	8,452	8,394	59	9,643
4.1.4 TRACKER	0	0	0	18,144	18,097	47	18,144
4.1.5 CALORIMETER	0	0	0	721	718	2	721
4.1.6 ANTICOINCIDENCE DETECTOR	0	0	0	685	683	3	685
4.1.7 ELECTRONICS	107	39	68	28,047	28,112	-65	28,605
4.1.8 MECHANICAL SYSTEMS	0	0	0	17,441	17,417	25	17,441
4.1.9 INTEGRATION & TEST	280	232	48	12,816	12,284	533	14,566
4.1.A PERFORM & SAFETY ASSURANCE	50	132	-82	4,859	4,975	-116	5,124
4.1.B INSTRUMENT SCIENCE OPS CENTER	0	0	0	59	59	0	59
4.1.C EDUCATION & PUBLIC OUTREACH	0	0	0	5	0	5	5
OBSTotals:	629	539	89	105,504	104,956	548	109,489
DS *** SSU							
4.1.C EDUCATION & PUBLIC OUTREACH	55	28	27	3,575	3,292	283	3,937
OBSTotals:	55	28	27	3,575	3,292	283	3,937



FTE Report

