

# GLAST LAT PROJECT

Cost & Schedule Information  
for the  
GLAST LAT PDR/Baseline Review  
January 8-11, 2001

4.1.4 Tracker  
Subsystem Manager – R. Johnson

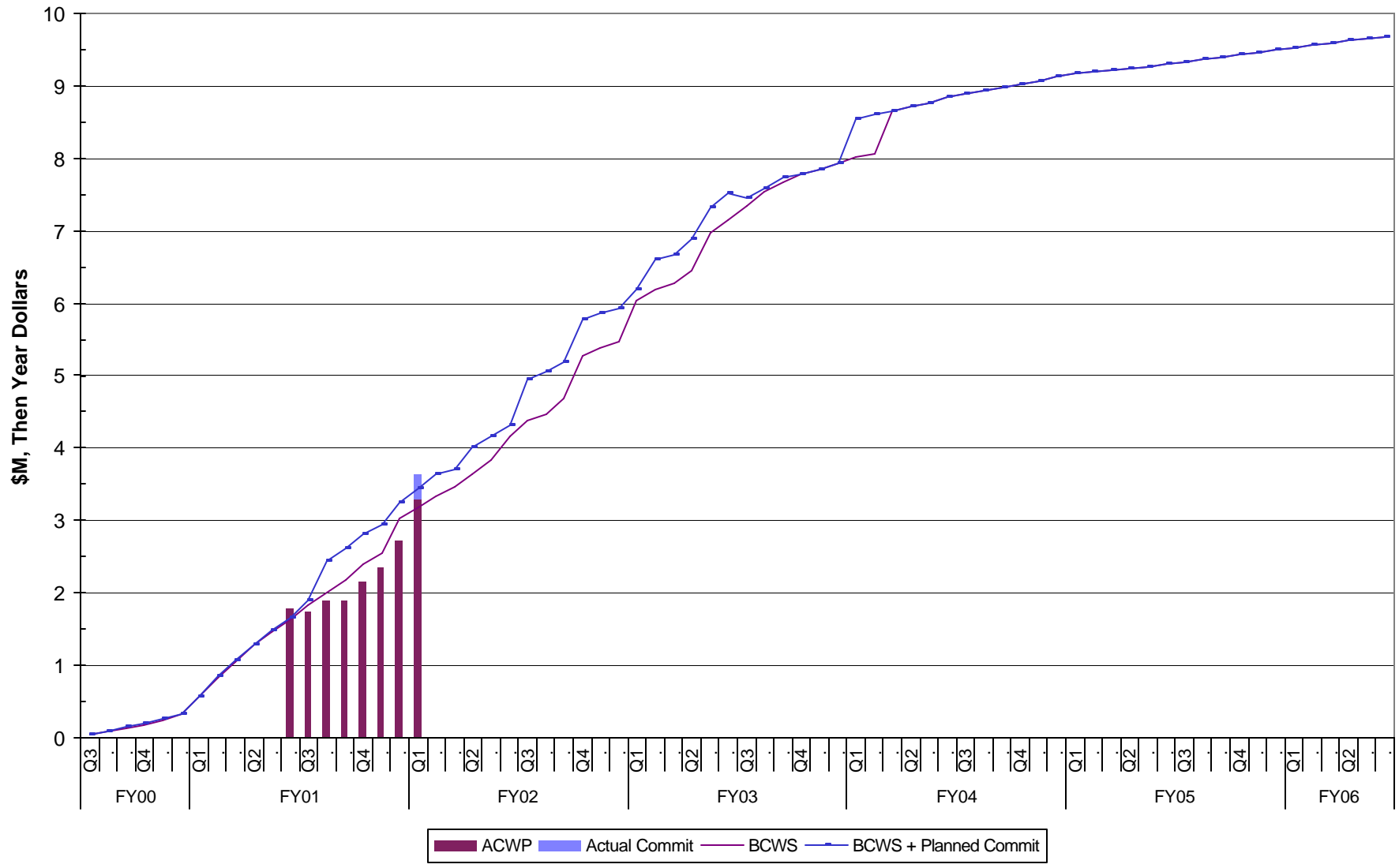


**Gamma-ray  
Large Area Space  
Telescope**

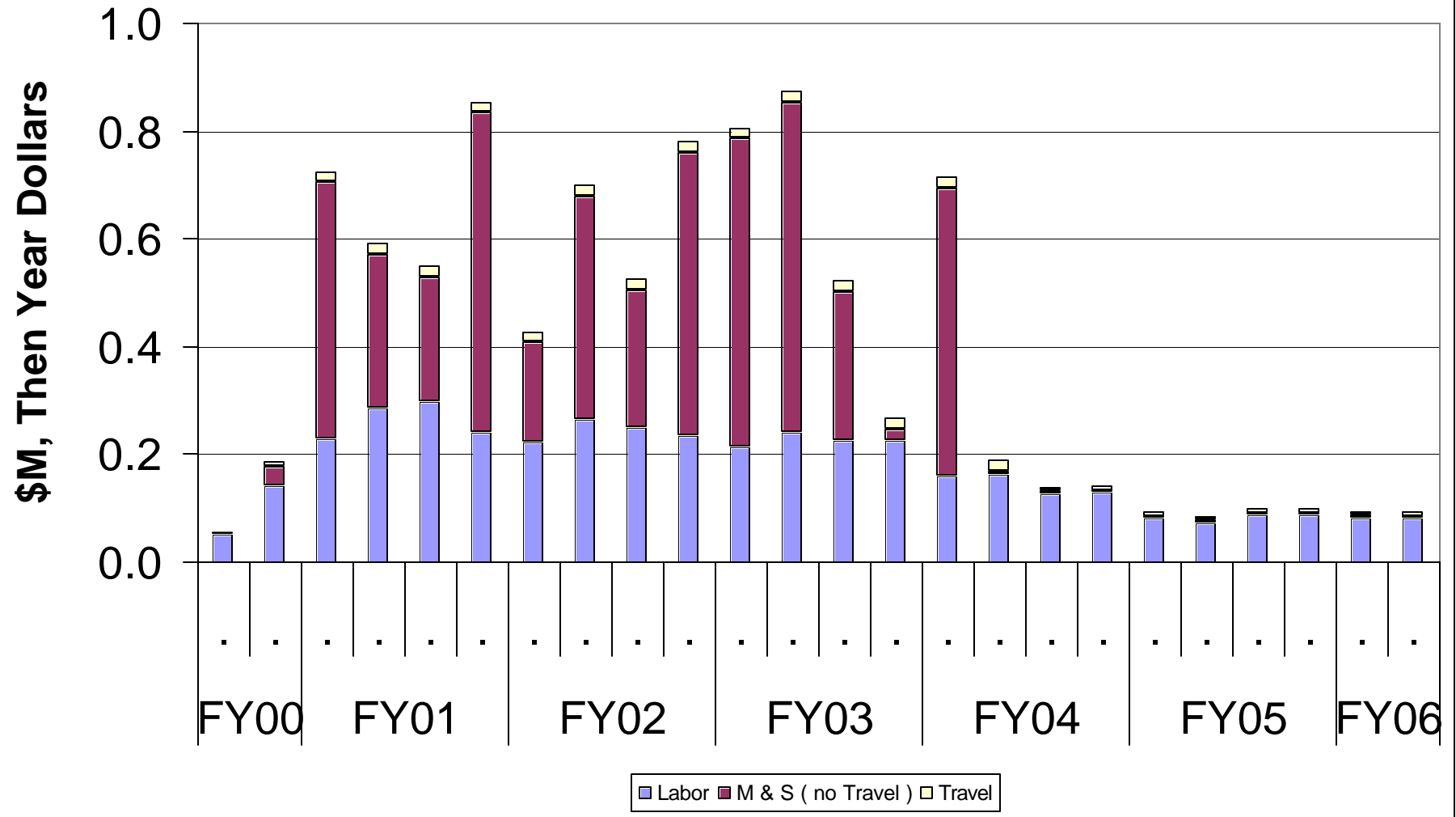


## **Cost & Commitment Profile**

### 4.1.4 Tracker Costs and Commitments



## 4.1.4 Tracker Cost Type





**Gamma-ray  
Large Area Space  
Telescope**



## **Cost Detail @ Work Package Level**

Program:	1001	Description:	GLAST LAT Project	Approval:  Program Manager Functional Manager Cost Account Manager
Run Date:	12/12/01	Status Date:	10/31/01	

CAPW[4]	OBS	CPN[1]	WP		FY00	FY01	FY02	FY03	FY04	FY05	FY06	Cumulative
4.1.4.1 TRACKER MANAGEMENT												
DL SU-SLAC												
2600024 4.1.4.1 Tracker Management												
CPN[1] Totals:				PLANNED	0	307	338	353	274	41	13	1,327
				BUD+COM	0	307	338	353	274	41	13	1,327
OBS Totals:				PLANNED	0	307	338	353	274	41	13	1,327
				BUD+COM	0	307	338	353	274	41	13	1,327
DU UCSC												
4141 4.1.4.1 Tracker Management UCSC												
CPN[1] Totals:				PLANNED	178	332	331	346	318	288	145	1,937
				BUD+COM	178	332	331	346	318	288	145	1,937
OBS Totals:				PLANNED	178	332	331	346	318	288	145	1,937
				BUD+COM	178	332	331	346	318	288	145	1,937
CAPW[4] Totals:				PLANNED	178	639	669	700	592	329	158	3,264
				BUD+COM	178	639	669	700	592	329	158	3,264
4.1.4.2 RELIABILITY & QUALITY ASSURANCE												
DL SU-SLAC												
2600025 4.1.4.2 Reliability and Quality Assurance												
CPN[1] Totals:				PLANNED	0	0	0	0	0	0	0	0
				BUD+COM	0	0	0	0	0	0	0	0
OBS Totals:				PLANNED	0	0	0	0	0	0	0	0
				BUD+COM	0	0	0	0	0	0	0	0
CAPW[4] Totals:				PLANNED	0	0	0	0	0	0	0	0
				BUD+COM	0	0	0	0	0	0	0	0
4.1.4.3 TRAY SUB-ASSEMBLY												
DL SU-SLAC												
2600026 4.1.4.3 Tray Sub-Assembly												
CPN[1] Totals:				PLANNED	0	0	0	0	0	0	0	0
				BUD+COM	0	0	0	0	0	0	0	0
2600176 4.1.4.3.1 Silicon Strip Detectors (SSD)												
CPN[1] Totals:				PLANNED	0	398	0	0	530	0	0	929
				BUD+COM	0	398	0	0	530	0	0	929
2600177 4.1.4.3.2 Tray Mechanical												
CPN[1] Totals:				PLANNED	0	802	19	0	0	0	0	821
				BUD+COM	0	802	19	0	0	0	0	821
2600178 4.1.4.3.3 Tray Electronics												
CPN[1] Totals:				PLANNED	38	423	515	628	0	0	0	1,603
				BUD+COM	38	614	793	159	0	0	0	1,603
2600179 4.1.4.3.3.A Fab Fit Electronics Mods (SLAC/UCSC)												
CPN[1] Totals:				PLANNED	0	0	495	410	0	0	0	905
				BUD+COM	0	0	495	410	0	0	0	905
2600180 4.1.4.3.5 SLAC Assembly Facilities												
CPN[1] Totals:				PLANNED	0	67	49	14	0	0	0	130
				BUD+COM	0	67	49	14	0	0	0	130
OBS Totals:				PLANNED	38	1,691	1,077	1,052	530	0	0	4,388
				BUD+COM	38	1,882	1,355	583	530	0	0	4,388
DU UCSC												
4143 4.1.4.3 Tray Sub-Assembly												
CPN[1] Totals:				PLANNED	101	160	147	8	2	0	0	417
				BUD+COM	101	160	147	8	2	0	0	417
OBS Totals:				PLANNED	101	160	147	8	2	0	0	417
				BUD+COM	101	160	147	8	2	0	0	417
CAPW[4] Totals:				PLANNED	139	1,850	1,224	1,060	532	0	0	4,805
				BUD+COM	139	2,041	1,502	591	532	0	0	4,805
4.1.4.4 TOWER STRUCTURE & ASSEMBLY												
DL SU-SLAC												
2600181 4.1.4.4 Tower Structure (SLAC)												
CPN[1] Totals:				PLANNED	0	219	209	147	0	0	0	575
				BUD+COM	0	219	209	147	0	0	0	575
2600182 4.1.4.4.3 Tower Assembly												
CPN[1] Totals:				PLANNED	0	1	119	338	0	0	0	458
				BUD+COM	0	16	103	338	0	0	0	458
OBS Totals:				PLANNED	0	220	328	486	0	0	0	1,033
				BUD+COM	0	235	312	486	0	0	0	1,033

Program:		Description:		Approval: Program Manager Functional Manager Cost Account Manager							
1001		GLAST LAT Project									
Run Date:		Status Date:									
12/12/01		10/31/01									
CAPW[4]	OBS	CPN[1]	WP		FY00	FY01	FY02	FY03	FY04	FY05	FY06 Cumulative
	DU UCSC										
		4144 4.1.4.4 Tower Structure & Assy (SLAC)									
		CPN[1] Totals:	PLANNED		0	11	15	43	0	0	0 69
			BUD+COM		0	11	15	43	0	0	0 69
	OBS Totals:		PLANNED		0	11	15	43	0	0	0 69
			BUD+COM		0	11	15	43	0	0	0 69
CAPW[4] Totals:			PLANNED		0	230	343	529	0	0	0 1,102
			BUD+COM		0	246	327	529	0	0	0 1,102
4.1.4.5 TRACKER TEST & CALIBRATION											
	DL SU-SLAC										
		2600028 4.1.4.5 Tracker Test And Calibration									
		CPN[1] Totals:	PLANNED		0	0	195	68	0	0	0 263
			BUD+COM		0	0	195	68	0	0	0 263
	OBS Totals:		PLANNED		0	0	195	68	0	0	0 263
			BUD+COM		0	0	195	68	0	0	0 263
CAPW[4] Totals:			PLANNED		0	0	195	68	0	0	0 263
			BUD+COM		0	0	195	68	0	0	0 263
4.1.4.7 INSTRUMENT INTEGRATION & TEST (SLAC)											
	DL SU-SLAC										
		2600030 4.1.4.7 Instrument Integration And Test Support									
		CPN[1] Totals:	PLANNED		0	0	0	111	60	30	16 217
			BUD+COM		0	0	0	111	60	30	16 217
	OBS Totals:		PLANNED		0	0	0	111	60	30	16 217
			BUD+COM		0	0	0	111	60	30	16 217
CAPW[4] Totals:			PLANNED		0	0	0	111	60	30	16 217
			BUD+COM		0	0	0	111	60	30	16 217
4.1.4.8 MISSION INTEGRATION & TEST SUPPORT											
	DL SU-SLAC										
		2600031 4.1.4.8 Mission Integration & Test Support									
		CPN[1] Totals:	PLANNED		0	0	0	0	0	18	12 30
			BUD+COM		0	0	0	0	0	18	12 30
	OBS Totals:		PLANNED		0	0	0	0	0	18	12 30
			BUD+COM		0	0	0	0	0	18	12 30
CAPW[4] Totals:			PLANNED		0	0	0	0	0	18	12 30
			BUD+COM		0	0	0	0	0	18	12 30



**Gamma-ray  
Large Area Space  
Telescope**



## **Work Package Planning (Resource Loaded Schedule @ Work Package Level)**







Act ID	Activity Description	Dur	Start	Finish	PMT	Budgeted Cost	FY01	FY02	FY03	FY04	FY05	FY06
+ 2600181 4.1.4.4 Tower Structure (SLAC)												
		554	10/02/00A	01/03/03	E	574,958.03						
+ 2600182 4.1.4.4.3 Tower Assembly												
		454	07/18/01A	05/20/03	E	458,423.55						
DU UCSC												
Subtotal		495	02/01/01A	02/03/03	E	68,821.80						
+ 4144 4.1.4.4 Tower Structure & Assy (SLAC)												
		495	02/01/01A	02/03/03	E	68,821.80						
45 4.1.4.5 TRACKER TEST & CALIBRATION												
Subtotal		362	02/04/02	07/17/03	E	263,362.11						
DL SU-SLAC												
Subtotal		362	02/04/02	07/17/03	E	263,362.11						
+ 2600028 4.1.4.5 Tracker Test And Calibration												
		362	02/04/02	07/17/03	E	263,362.11						
47 4.1.4.7 INSTRUMENT INTEGRATION & TEST (SLAC)												
Subtotal		826	10/21/02	02/28/06		216,669.95						
DL SU-SLAC												
Subtotal		826	10/21/02	02/28/06		216,669.95						
+ 2600030 4.1.4.7 Instrument Integration And Test Support												
		826	10/21/02	02/28/06		216,669.95						
48 4.1.4.8 MISSION INTEGRATION & TEST SUPPORT												
Subtotal		248	03/01/05	02/28/06	A	30,359.49						
DL SU-SLAC												
Subtotal		248	03/01/05	02/28/06	A	30,359.49						
+ 2600031 4.1.4.8 Misssion Integration &Test Support												
		248	03/01/05	02/28/06	A	30,359.49						
Run Date		12/12/01 15:24		GLAST - LAT PROJECT WorkPackagePlanningSummary (WBS4xOBSxWP)			Sheet 7					
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**Gamma-ray  
Large Area Space  
Telescope**



## **Subsystem Milestones**









**Gamma-ray  
Large Area Space  
Telescope**



**Critical Activities with  
Total Float Less Than 80 Days**



Act ID	Activity Description	Dur	Start	Finish	Total Float																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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**Gamma-ray  
Large Area Space  
Telescope**



**FTEs**

Program: 1001	Description: GLAST LAT Project	Approval: Program Manager Functional Manager Cost Account Manager
Run Date: 12/13/01	Status Date: 10/31/01	

CAPW[3] OBS[3]			START	FY00	FY01	FY02	FY03	FY04	FY05	FY06	Cumulative
4.1.4 TRACKER											
DL SU-SLAC											
	FY_FTE	PLANNED	0.0	0.3	5.3	5.1	4.6	2.8	0.5	0.2	18.8
DU UCSC											
	FY_FTE	PLANNED	0.0	2.8	4.9	4.6	4.4	3.9	3.7	1.9	26.1
FI Italy											
	FY_FTE	PLANNED	0.0	0.0	5.0	12.7	13.0	4.8	0.0	0.0	35.4
FJ Japan											
	FY_FTE	PLANNED	0.0	0.3	2.3	2.3	1.8	0.3	0.0	0.0	6.9
CAPW[3] Totals:											
		PLANNED	0.0	3.3	17.4	24.7	23.8	11.7	4.2	2.1	87.2