



**Gamma-ray  
Large Area Space  
Telescope**



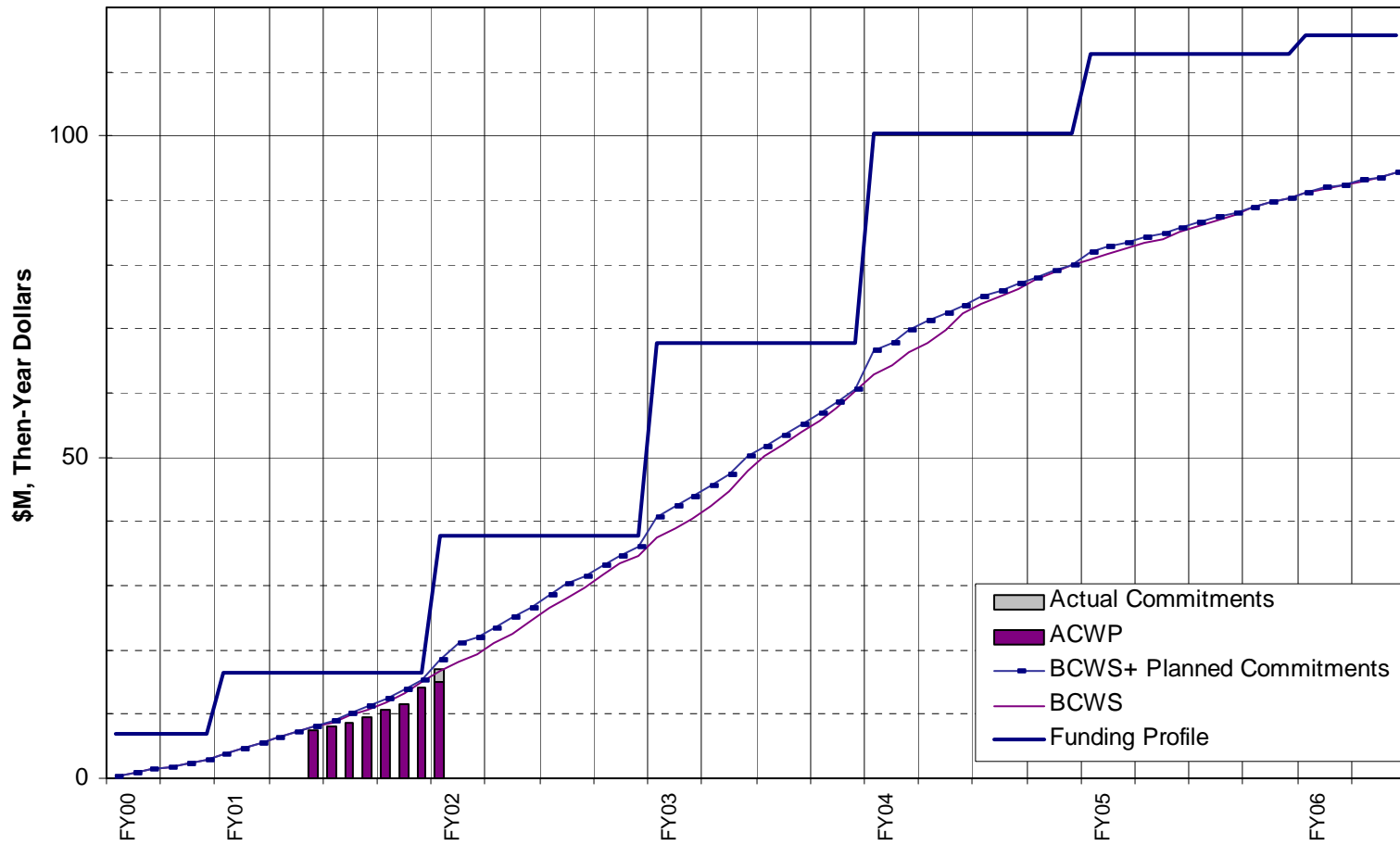
# **GLAST LAT PROJECT**

## **Cost and Schedule Status through October 2001**

## Level 1 and Level 2 Milestones

Activity Description	Finish	FY00	FY01	FY02	FY03	FY04	FY05	FY06
<b>DOE / NASA Headquarters (Level 1)</b>								
Launch Instrument	03/01/06*							▼
<b>Project Office (Level 2)</b>								
Launch Balloon Flight	08/01/01A		▼					
Instrument Preliminary Design Review	01/07/02*			▼				
Instrument Critical Design Review	08/05/02*			▼				
1st Two Towers Ready for Calibration	08/15/03*				▼			
Start LAT Integration	01/02/04*					▼		
Pre Environmental Testing Review	07/09/04*					▼		
Instrument Pre-Ship Review	01/07/05*						▼	
LAT Ready for Integration ( RFI ) to Spacecraft	03/22/05*						▼	
Run Date	12/17/01 10:03	GLAST - LAT PROJECT Project Milestones (Level 1-2)						Sheet 1
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### Budget vs Actuals vs Funding DOE + NASA Project Expenditures



**LAT Costs, through October 2001, by WBS**

Monthly Contractor Financial Management Report 31-Oct-01							NASA form 533M Approved OMB # 2700-001		Report for Month Ending: 10/31/01	
To:				From:				Contract Value		
								Cost: 0	Fee: 0	
1001		Type:			Contract Number and Latest Definitized Amendment No:			Fund Limitation: 0		
GLAST LAT Project										
Reporting Category	Cost Incurred/Hours Worked				Estimated Cost/Hours to Complete			4/3/00		Billing
	During Month		Cum. to Date		Detail		Balance of	Estimated Final Cost/Hours		Unfilled Orders Outstanding
	Actual	Planned	Actual	Planned	NOV01		Contract	Contractor Estimate	Contract Value	
4.1.1 INSTRUMENT MANAGEMENT	160	251	2,563	2,683	234		8,510	11,307	11,307	
4.1.2 SYSTEM ENGINEERING	9	88	869	948	85		3,137	4,092	4,092	
4.1.4 TRACKER	585	151	3,300	3,187	145		6,237	9,681	9,681	
4.1.5 CALORIMETER	172	264	2,468	2,599	214		10,696	13,378	13,378	
4.1.6 ANTICOINCIDENCE DETECTOR	-183	248	1,445	1,721	219		8,296	9,960	9,960	
4.1.7 ELECTRONICS	132	268	1,652	1,890	145		14,724	16,520	16,520	
4.1.8 MECHANICAL SYSTEMS	59	72	525	1,209	104		7,659	8,288	8,288	
4.1.9 INSTRUMENT INTEGRATION AND	13	109	13	109	95		7,187	7,294	7,294	
4.1.A PERFORMANCE AND SAFETY AS	24	47	253	289	41		1,912	2,206	2,206	
4.1.B LAT INSTRUMENT OPERATIONS	15	18	125	150	15		3,572	3,711	3,711	
4.1.C EDUCATION AND PUBLIC OUTR	0	22	199	275	19		2,690	2,908	2,908	
4.1.D SCIENCE ANALYSIS SOFTWARE	40	24	371	324	26		3,303	3,700	3,700	
4.1.E SUBORBITAL FLIGHT TEST	-34	0	1,305	1,321	0		16	1,321	1,321	
Gen. and Admin.	0	0	0	0	0		0	0	0	
Total	991	1,560	15,088	16,704	1,342		77,937	94,366	94,366	

**LAT Costs, through October 2001, by Organization and Cost Code**

Monthly Contractor Financial Management Report 31-Oct-01						NASA form 533M Approved OMB # 2700-001		Report for Month Ending: 10/31/01		
To:				From:				Contract Value		
								Cost:	Fee:	
								0	0	
1001	Type:			Contract Number and Latest Definitized Amendment No:			Fund Limitation:			
GLAST LAT Project							0			
Reporting Category	Cost Incurred/Hours Worked				Estimated Cost/Hours to Complete			4/3/00	Billing	
	During Month		Cum. to Date		Detail		Balance of Contract	Estimated Final Cost/Hours		Unfilled Orders Outstanding
	Actual	Planned	Actual	Planned	NOV01	Contractor Estimate		Contract Value		
DG GSFC	-133	284	2,342	2,661	251	10,532	13,124	13,124		
DH SU-HEPL	77	82	1,905	1,908	75	7,521	9,502	9,502		
DL SU-SLAC	765	701	6,582	7,397	654	39,375	46,611	46,611		
DN NRL	234	393	3,341	3,556	289	15,728	19,358	19,358		
DS SSU	0	22	199	275	19	2,640	2,858	2,858		
DT Texas A&M	0	0	0	16	0	16	16	16		
DU UCSC	48	78	718	891	56	2,124	2,898	2,898		
Total	991	1,560	15,088	16,704	1,342	77,937	94,366	94,366		
LABOR	202	1,060	9,839	10,750	900	45,320	56,059	56,059		
MM	273	137	845	1,376	139	6,674	7,658	7,658		
HRS	50,227	25,176	151,128	231,506	22,297	1,088,552	1,261,977	1,261,977		
M&S	627	416	4,761	5,365	365	27,813	32,939	32,939		
TRAVEL	0	51	326	383	45	3,054	3,425	3,425		
TAXES	162	33	162	206	32	1,750	1,944	1,944		
Total (not incl FTE/Hrs)	991	1,560	15,088	16,704	1,342	77,937	94,366	94,366		

**LAT Performance, through October 2001, by WBS**

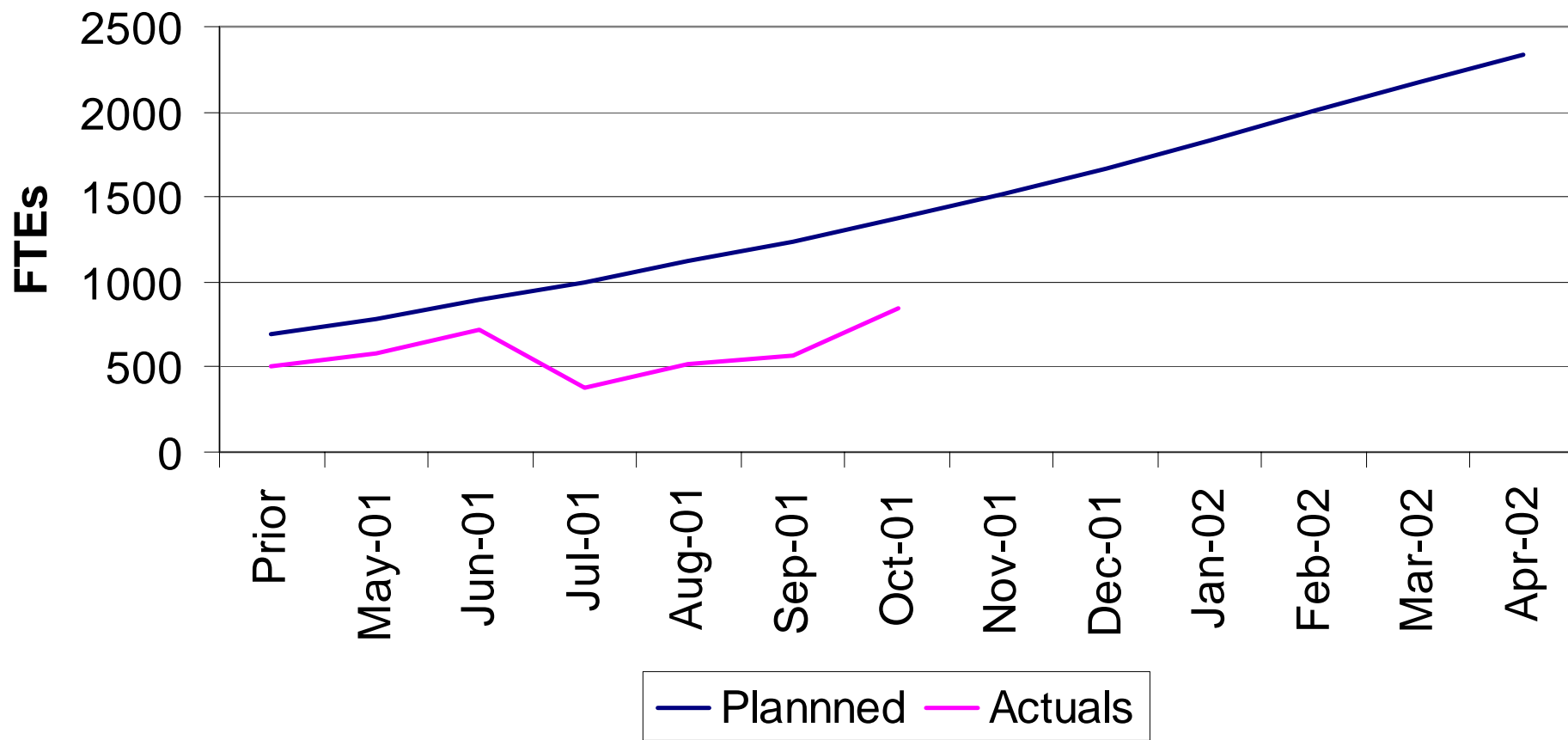
Cost/Schedule Status Report								
	Contract Type/No:		Project Name/No: GLAST LAT Project		Report Period: 9/30/01 10/31/01		Signature: Title/Date: 12/17/01	
(1) Original Contract Target Cost 0	(2) Negotiated Contract Changes 0		(3) Current Target Cost (1) + (2) 0		(4) Estimated Cost of Authorized Unpriced Work 0		(5) Contract Budget Base (3) + (4) 0	
Performance Data								
CAPW[3]	Cumulative to Date					At Completion		
	Budgeted Cost		Actual Cost Work Performed	Variance		Budgeted	Latest Revised Estimate	Variance
	Work Scheduled	Work Performed		Schedule	Cost			
4.1.1 INSTRUMENT MANAGEMENT	2,683	2,683	2,563	0	120	11,307	11,307	0
4.1.2 SYSTEM ENGINEERING	948	948	869	0	78	4,092	4,092	0
4.1.4 TRACKER	3,187	3,171	3,300	-16	-128	9,681	9,681	0
4.1.5 CALORIMETER	2,599	2,614	2,468	15	146	13,378	13,378	0
4.1.6 ANTICOINCIDENCE DETECTOR	1,721	1,734	1,445	13	289	9,960	9,960	0
4.1.7 ELECTRONICS	1,890	1,902	1,652	13	250	16,520	16,520	0
4.1.8 MECHANICAL SYSTEMS	1,209	1,205	525	-4	679	8,288	8,288	0
4.1.9 INSTRUMENT INTEGRATION AND TEST	109	109	13	0	97	7,294	7,294	0
4.1.A PERFORMANCE AND SAFETY ASSURA	289	289	253	0	36	2,206	2,206	0
4.1.B LAT INSTRUMENT OPERATIONS CENT	150	141	125	-9	17	3,711	3,711	0
4.1.C EDUCATION AND PUBLIC OUTREACH	275	308	199	33	108	2,908	2,908	0
4.1.D SCIENCE ANALYSIS SOFTWARE	324	323	371	-1	-48	3,700	3,700	0
4.1.E SUBORBITAL FLIGHT TEST	1,321	1,321	1,305	0	16	1,321	1,321	0
Undist. Budget						0	0	0
Sub Total	16,704	16,748	15,088	44	1,660	94,366	94,366	0
Management Resrv.						0	0	0
Total	16,704	16,748	15,088	44	1,660	94,366	94,366	0

**LAT Performance, through October 2001, by Organization**

Cost/Schedule Status Report									
	Contract Type/No:		Project Name/No: GLAST LAT Project		Report Period: 9/30/01 10/31/01		Signature: Title/Date: 12/17/01		
(1) Original Contract Target Cost 0	(2) Negotiated Contract Changes 0		(3) Current Target Cost (1) + (2) 0		(4) Estimated Cost of Authorized Unpriced Work 0		(5) Contract Budget Base (3) + (4) 0		
Performance Data									
OBS	Cumulative to Date						At Completion		
	Budgeted Cost		Actual Cost Work Performed	Variance		Budgeted	Latest Revised Estimate	Variance	
	Work Scheduled	Work Performed		Schedule	Cost				
DG GSFC	2,661	2,675	2,342	13	333	13,124	13,124	0	
DH SU-HEPL	1,908	1,906	1,905	-1	1	9,502	9,502	0	
DL SU-SLAC	7,397	7,374	6,582	-23	792	46,611	46,611	0	
DN NRL	3,556	3,576	3,341	20	235	19,358	19,358	0	
DS SSU	275	308	199	33	108	2,858	2,858	0	
DT Texas A&M	16	16	0	0	16	16	16	0	
DU UCSC	891	893	718	2	175	2,898	2,898	0	
Undist. Budget						0	0	0	
Sub Total	16,704	16,748	15,088	44	1,660	94,366	94,366	0	
Management Resrv.						0	0	0	
Total	16,704	16,748	15,088	44	1,660	94,366	94,366	0	

LAT Manpower , through October 2001

## GLAST LAT PROJECT Cumulative FTEs





### LAT Manpower Data, through October 2001, by WBS

Program:	Description:	Approval:													
1001	GLAST LAT Project	Program Manager													
Run Date:	Status Date:	Functional Manager													
12/17/01	10/31/01	Cost Account Manager													
		Cum-to													
		PRIOR	MAY01	JUN01	JUL01	AUG01	SEP01	OCT01	Date	NOV01	DEC01	JAN02	FEB02	MAR02	APR02
CAPW[3]															
4.1.1 INSTRUMENT MANAGEMENT															
FTE	PLANNED	51.9	4.9	4.9	5.9	5.9	5.9	10.2	<b>89.4</b>	10.6	10.6	10.6	10.6	10.2	10.2
	ACTUALS	138.4	15.1	14.9	-127.2	4.3	4.2	22.7	<b>72.4</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.2 SYSTEM ENGINEERING															
FTE	PLANNED	7.0	1.6	2.3	2.3	2.3	2.1	1.7	<b>19.1</b>	1.7	1.7	1.5	1.8	1.8	1.8
	ACTUALS	24.2	1.9	1.9	-21.3	0.7	0.5	0.5	<b>8.6</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.4 TRACKER															
FTE	PLANNED	146.7	21.0	20.4	18.4	19.4	23.0	23.9	<b>272.8</b>	24.9	25.4	25.8	25.0	23.1	23.4
	ACTUALS	201.8	16.0	67.1	-132.5	7.5	-22.0	105.3	<b>243.0</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.5 CALORIMETER															
FTE	PLANNED	190.9	35.9	38.6	36.9	37.1	36.4	39.1	<b>414.8</b>	38.9	38.5	47.0	46.4	48.0	47.5
	ACTUALS	20.3	10.1	13.5	3.8	60.8	16.1	-1.5	<b>123.0</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.6 ANTICOINCIDENCE DETECTOR															
FTE	PLANNED	47.3	12.7	13.4	8.2	8.2	11.7	22.9	<b>124.5</b>	21.6	27.5	25.1	23.6	21.6	21.1
	ACTUALS	0.0	0.0	0.0	0.0	0.0	16.8	29.5	<b>46.2</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.7 ELECTRONICS															
FTE	PLANNED	53.6	5.2	6.4	8.7	10.2	10.7	15.0	<b>109.7</b>	11.7	17.2	16.1	14.9	14.3	16.2
	ACTUALS	27.5	11.8	12.8	-22.6	8.8	15.7	46.5	<b>100.4</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.8 MECHANICAL SYSTEMS															
FTE	PLANNED	20.0	3.5	3.6	5.7	4.3	5.0	5.0	<b>47.2</b>	9.3	4.3	10.7	7.9	8.1	10.1
	ACTUALS	58.4	16.2	16.1	-65.9	4.3	4.5	4.7	<b>38.4</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.9 INSTRUMENT INTEGRATION AND TESTING															
FTE	PLANNED	0.0	0.0	0.0	0.0	0.0	0.0	7.3	<b>7.3</b>	7.3	7.3	7.3	7.3	7.3	7.3
	ACTUALS	0.0	0.0	0.0	0.0	0.0	0.0	0.8	<b>0.8</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.A PERFORMANCE AND SAFETY ASSURANCE															
FTE	PLANNED	13.6	1.5	1.5	1.5	1.5	1.5	2.6	<b>23.5</b>	2.6	2.6	2.6	2.6	2.6	2.6
	ACTUALS	40.2	3.8	3.1	-35.8	0.9	1.0	1.8	<b>14.9</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.B LAT INSTRUMENT OPERATIONS CENTER															
FTE	PLANNED	8.6	0.6	0.4	0.4	0.5	0.8	0.8	<b>12.1</b>	0.8	1.1	0.9	1.4	1.4	1.4
	ACTUALS	0.0	0.0	0.0	0.0	0.0	0.0	5.2	<b>5.2</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.C EDUCATION AND PUBLIC OUTREACH															
FTE	PLANNED	13.9	1.6	2.2	2.5	2.4	1.9	1.4	<b>25.8</b>	1.4	1.4	1.4	1.4	1.4	1.4
	ACTUALS	0.0	1.3	0.5	0.0	16.7	3.2	0.0	<b>21.6</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.D SCIENCE ANALYSIS SOFTWARE															
FTE	PLANNED	77.3	6.4	6.8	6.6	7.4	6.8	6.9	<b>118.2</b>	8.7	14.4	20.2	23.0	26.2	24.0
	ACTUALS	0.0	0.0	0.0	59.2	5.0	4.2	26.7	<b>95.2</b>	0.0	0.0	0.0	0.0	0.0	0.0
4.1.E SUBORBITAL FLIGHT TEST															
FTE	PLANNED	58.0	3.3	7.3	7.5	25.8	9.7	0.0	<b>111.5</b>	0.0	0.0	0.0	0.0	0.0	0.0
	ACTUALS	0.0	0.0	0.1	7.2	21.8	15.6	30.8	<b>75.5</b>	0.0	0.0	0.0	0.0	0.0	0.0
Grand Totals:															
	PLANNED	688.7	98.0	107.6	104.4	124.9	115.4	136.8	<b>1,375.8</b>	139.4	152.1	169.1	165.8	166.0	167.0
	ACTUALS	510.8	76.1	129.9	-335.1	130.8	59.7	273.0	<b>845.2</b>	0.0	0.0	0.0	0.0	0.0	0.0

## LAT Manpower Data, through October 2001, by Organization

Program: 1001	Description: GLAST LAT Project	Approval: Program Manager Functional Manager Cost Account Manager
Run Date: 12/17/01	Status Date: 10/31/01	

			PRIOR	MAY01	JUN01	JUL01	AUG01	SEP01	OCT01	Cum-to Date	NOV01	DEC01	JAN02	FEB02	MAR02	APR02
OBS[1]																
DG GSFC	FTE	PLANNED	75.4	13.9	15.9	11.2	29.0	12.9	25.6	<b>183.8</b>	24.3	29.7	28.2	27.0	24.8	24.4
		ACTUALS	0.0	0.0	0.0	0.0	0.0	30.7	42.6	<b>73.3</b>	0.0	0.0	0.0	0.0	0.0	0.0
DH SU-HEPL	FTE	PLANNED	95.1	4.2	5.1	5.6	6.0	13.5	5.3	<b>134.8</b>	4.9	6.4	6.5	5.9	6.5	8.0
		ACTUALS	0.0	0.0	0.0	0.0	0.0	0.0	98.5	<b>98.5</b>	0.0	0.0	0.0	0.0	0.0	0.0
DL SU-SLAC	FTE	PLANNED	164.8	24.9	25.2	28.4	28.5	27.6	35.2	<b>334.7</b>	41.5	46.5	54.3	51.6	52.9	53.4
		ACTUALS	428.8	66.3	66.2	-353.7	25.0	22.2	25.8	<b>280.4</b>	0.0	0.0	0.0	0.0	0.0	0.0
DN NRL	FTE	PLANNED	93.9	8.8	12.8	10.6	12.3	9.3	18.0	<b>165.8</b>	15.3	15.0	14.0	14.7	16.2	15.3
		ACTUALS	24.0	10.3	13.5	13.3	87.5	28.9	2.3	<b>179.7</b>	0.0	0.0	0.0	0.0	0.0	0.0
DS SSU	FTE	PLANNED	13.9	1.6	2.2	2.5	2.4	1.9	1.4	<b>25.8</b>	1.4	1.4	1.4	1.4	1.4	1.4
		ACTUALS	0.0	1.3	0.5	0.0	16.7	3.2	0.0	<b>21.6</b>	0.0	0.0	0.0	0.0	0.0	0.0
DU UCSC	FTE	PLANNED	70.3	5.3	5.8	5.9	6.1	5.7	7.0	<b>106.0</b>	5.6	5.8	5.9	5.0	5.0	4.7
		ACTUALS	58.0	-1.7	-13.5	5.4	1.7	5.2	59.5	<b>114.7</b>	0.0	0.0	0.0	0.0	0.0	0.0
DW UW	FTE	PLANNED	13.4	1.2	1.3	1.0	1.0	1.0	1.0	<b>19.7</b>	1.0	1.0	0.9	1.6	0.8	0.9
FF France	FTE	PLANNED	116.0	28.0	28.0	28.0	28.0	28.6	28.6	<b>285.2</b>	28.7	28.0	34.1	35.6	36.2	36.4
FI Italy	FTE	PLANNED	22.5	8.1	9.1	9.1	9.5	12.5	12.5	<b>83.2</b>	14.7	16.1	16.6	15.9	15.0	15.2
		ACTUALS	0.0	0.0	63.3	0.0	0.0	-30.6	14.5	<b>47.2</b>	0.0	0.0	0.0	0.0	0.0	0.0
FJ Japan	FTE	PLANNED	23.4	2.3	2.3	2.3	2.3	2.3	2.3	<b>37.0</b>	2.3	2.3	2.7	2.7	2.7	2.7
		ACTUALS	0.0	0.0	0.0	0.0	0.0	0.0	29.8	<b>29.8</b>	0.0	0.0	0.0	0.0	0.0	0.0
FK Sweden	FTE	PLANNED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	4.5	4.5	4.5	4.5
		PLANNED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>0.0</b>	0.0	0.0	4.5	4.5	4.5	4.5
Grand Totals:		PLANNED	688.7	98.0	107.6	104.4	124.9	115.4	136.8	<b>1375.8</b>	139.4	152.1	169.1	165.8	166.1	167.0
		ACTUALS	510.8	76.1	129.9	-335.0	130.8	59.7	273.0	<b>845.2</b>	0.0	0.0	0.0	0.0	0.0	0.0

4.1. GLAST LAT																
Contributed		PLANNED	213.9	43.5	44.5	44.0	45.4	47.1	47.6	<b>486.0</b>	51.3	56.9	69.5	71.5	74.0	72.5
		ACTUALS	0.0	0.0	63.4	0.0	0.0	-28.7	46.8	<b>81.5</b>	0.0	0.0	0.0	0.0	0.0	0.0
Funded		PLANNED	474.8	54.5	63.1	60.4	79.5	68.3	89.3	<b>889.8</b>	88.1	95.1	99.6	94.4	92.0	94.5
		ACTUALS	510.8	76.1	66.6	-335.1	130.8	88.4	226.2	<b>763.8</b>	0.0	0.0	0.0	0.0	0.0	0.0
Grand Totals:		PLANNED	688.7	98.0	107.6	104.4	124.9	115.4	136.8	<b>1375.8</b>	139.4	152.1	169.1	165.8	166.1	167.0
		ACTUALS	510.8	76.1	129.9	-335.0	130.8	59.7	273.0	<b>845.2</b>	0.0	0.0	0.0	0.0	0.0	0.0