

LAT Cost/Schedule Status Overview

July 2003

Tanya Boysen
LAT Project Controls Manager

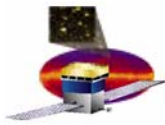
CPR Level 3

 Total project schedule variance

 Cumulative Variance > +/-10%
(will be reported to DOE/NASA)

 Notable current period variances

Cost Performance Report - Work Breakdown Structure													
Contractor: Location:				Contract Type/No:				Project Name/No: GLAST LAT Project		Report Period: 6/30/03 7/31/03			
CAPW[3] Item (1)	Current Period					Cumulative to Date					At Completion		
	Budgeted Cost		Actual Cost	Variance		Budgeted Cost		Actual Cost	Variance		Budgeted	Latest Revised Estimate	Variance
	Work Scheduled	Work Performed	Work Performed	Schedule	Cost	Work Scheduled	Work Performed	Work Performed	Schedule	Cost			
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
4.1.1 INSTRUMENT MANAGEMENT	357	357	426	0	-69	8,554	8,554	8,654	0	-100	15,357	15,357	0
4.1.2 SYSTEM ENGINEERING	174	174	55	0	119	3,773	3,773	3,555	0	217	6,453	6,453	0
4.1.4 TRACKER	34	66	241	32	-175	8,981	8,448	8,701	-533	-253	10,722	10,722	0
4.1.5 CALORIMETER	536	201	543	-335	-342	10,278	9,166	9,227	-1,112	-61	17,830	17,830	0
4.1.6 ANTICOINCIDENCE DETECTOR	244	128	542	-116	-414	8,496	7,218	8,578	-1,279	-1,360	12,025	12,025	0
4.1.7 ELECTRONICS	296	348	390	52	-42	6,251	6,315	6,860	64	-545	16,672	16,672	0
4.1.8 MECHANICAL SYSTEMS	486	339	460	-147	-121	6,106	5,300	5,024	-806	276	10,373	10,373	0
4.1.9 INTEGRATION & TEST	180	133	116	-46	17	2,181	2,105	2,067	-76	39	6,588	6,588	0
4.1.A PERFORMANCE AND SAFETY ASSURANCE	-201	-201	16	0	-217	949	949	800	0	149	1,607	1,607	0
4.1.B LAT INSTRUMENT OPERATIONS CENTER	32	27	0	-5	27	671	576	263	-95	313	2,512	2,512	0
4.1.C EDUCATION AND PUBLIC OUTREACH	48	35	25	-12	11	1,018	970	887	-48	83	2,684	2,684	0
4.1.D SCIENCE ANALYSIS SOFTWARE	74	57	47	-17	10	1,576	1,534	1,323	-41	211	3,595	3,595	0
4.1.E SUBORBITAL FLIGHT TEST	0	0	0	0	0	1,321	1,321	1,325	0	-4	1,321	1,321	0
Gen. and Admin.	0	0	0	0	0	0	0	0	0	0	0	0	0
Undist. Budget											0	0	0
Sub Total	2,260	1,665	2,862	-595	-1,197	60,155	56,229	57,264	-3,926	-1,035	107,737	107,737	0
Management Resrv.											13,783	13,783	0
Total	2,260	1,665	2,862	-595	-1,197	60,155	56,229	57,264	-3,926	-1,035	121,520	121,520	0



Performance Analysis

	WBS	BAC	BCWS	BCWP	ACWP	SV \$	CV \$	% BCWS	% BCWP	% ACWP	SV Trend	CV Trend	SPI	CPI	Cpi_Fcst	CpiSpi_Fcst
1	4.1	107,737	60,155	56,229	57,264	-3,926	-1,035	55.83	52.19	53.15	↓	↓	0.935	0.982	109,720	113,383
2	4.1.1	15,357	8,554	8,554	8,653	0	-100	55.70	55.70	56.35	↔	↓	1.000	0.988	15,536	15,536
3	4.1.2	6,453	3,773	3,773	3,555	0	217	58.47	58.47	55.10	↔	↑	1.000	1.061	6,081	6,081
4	4.1.4	10,722	8,981	8,448	8,701	-533	-253	83.76	78.79	81.15	↔	↓	0.941	0.971	11,044	11,191
5	4.1.5	17,830	10,278	9,166	9,227	-1,112	-61	57.65	51.41	51.75	↓	↓	0.892	0.993	17,948	19,006
6	4.1.6	12,025	8,496	7,218	8,578	-1,279	-1,360	70.66	60.02	71.34	↔	↓	0.850	0.841	14,291	15,303
7	4.1.7	16,672	6,251	6,315	6,860	64	-545	37.50	37.88	41.14	↑	↔	1.010	0.921	18,109	17,996
8	4.1.8	10,373	6,106	5,300	5,024	-806	276	58.87	51.10	48.44	↓	↓	0.868	1.055	9,833	10,564
9	4.1.9	6,588	2,181	2,105	2,067	-76	39	33.11	31.96	31.37	↓	↑	0.965	1.019	6,466	6,625
10	4.1.A	1,607	949	949	800	0	149	59.01	59.01	49.77	↔	↓	1.000	1.186	1,356	1,356
11	4.1.B	2,512	671	576	263	-95	313	26.73	22.94	10.48	↔	↔	0.858	2.188	1,148	1,294
12	4.1.C	2,684	1,018	970	887	-48	83	37.94	36.14	33.04	↓	↑	0.953	1.094	2,454	2,532
13	4.1.D	3,595	1,576	1,534	1,323	-41	211	43.83	42.67	36.81	↓	↔	0.974	1.159	3,101	3,149
14	4.1.E	1,321	1,321	1,321	1,325	0	-4	100.00	100.00	100.29	↔	↔	1.000	0.997	1,325	1,325

LEGEND

BAC: Budget At Complete

BCWS: Budgeted Cost of Work Scheduled (to date)

BCWP: Budgeted Cost of Work Performed (to date)

ACWP: Actual Cost of Work Performed (to date)

SV \$: Schedule Variance = BCWP - BCWS

CV \$: Cost Variance = BCWP - ACWP

SPI: Schedule Performance Index = BCWP/BCWS

CPI: Cost Performance Index = BCWP/ACWP

% BCWS: Percent Scheduled = BCWS/BAC

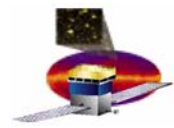
% BCWP: Percent Complete = BCWP/BAC

% ACWP: Percent Spent = ACWP/BAC

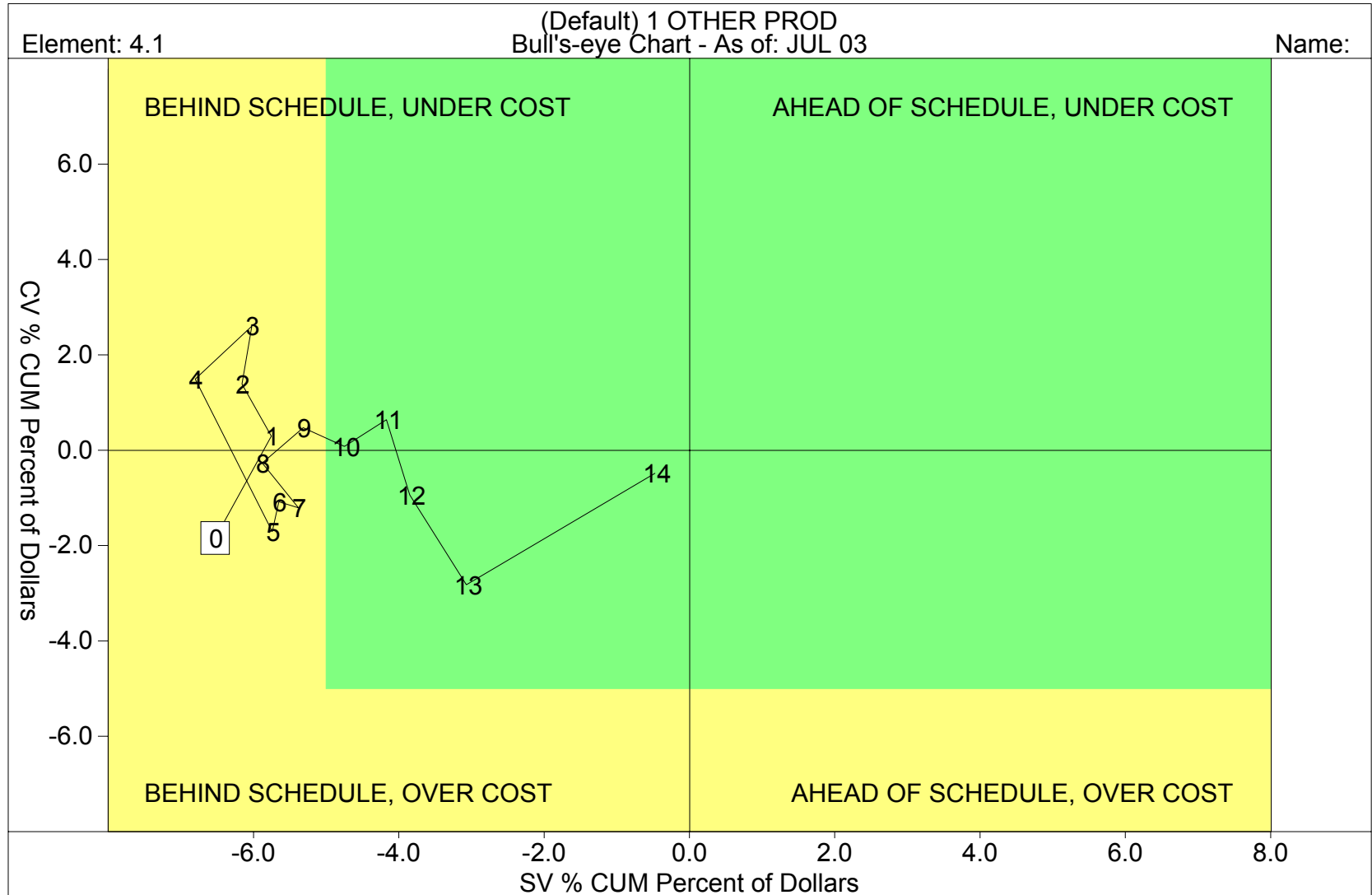
Cpi_Fcst: CPI (to date) EAC Forecast = BAC / CPI

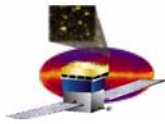
CpiSpi_Fcst: Combination CPI and SPI EAC Forecast = ACWP + (BAC - BCWP) / (CPI * SPI)

 Worse than -15%	 Between -5% and 10%
 Between -15% and -5%	 Better than 10%
Change Threshold 10%	

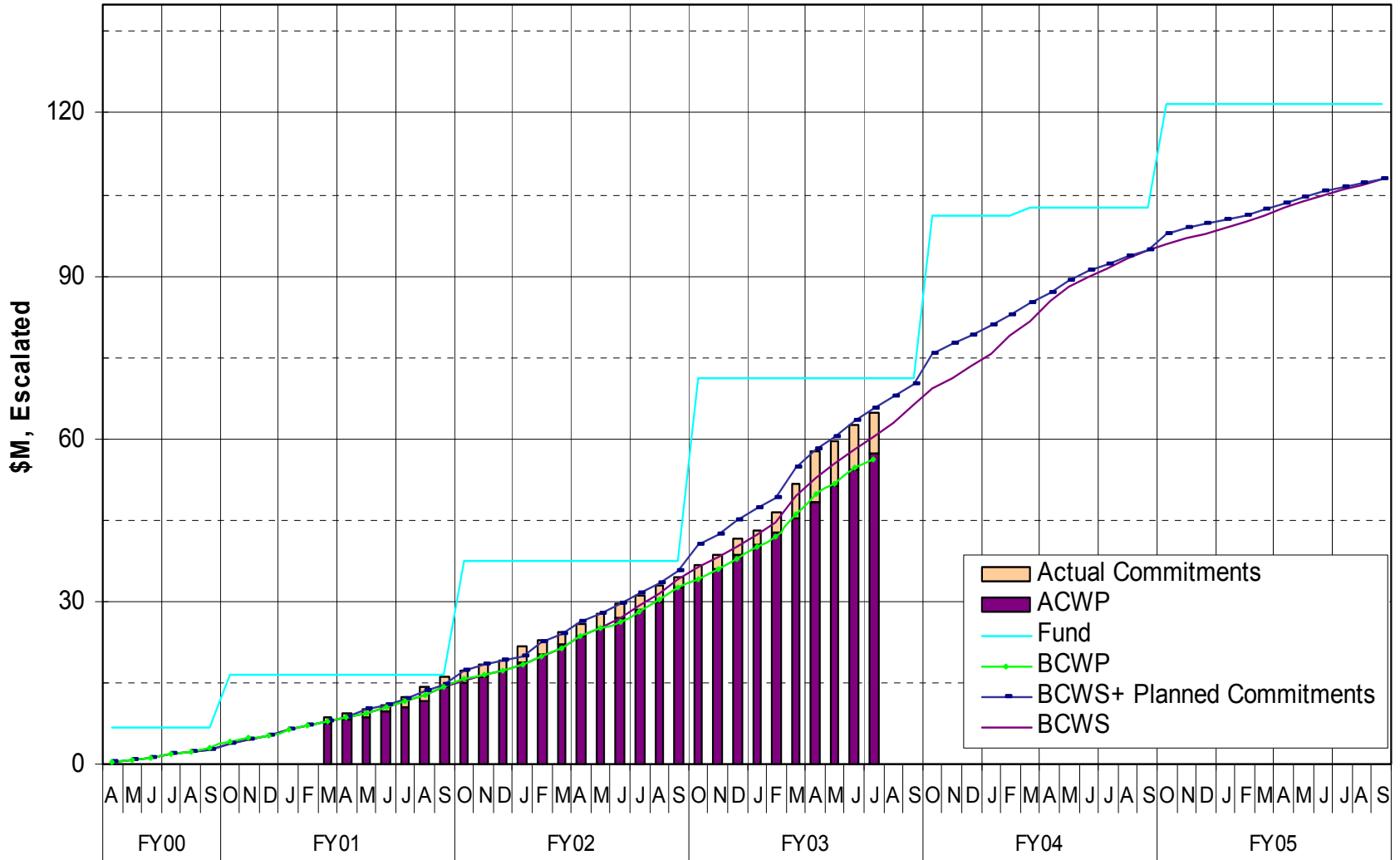


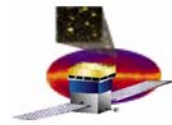
Variance Analysis



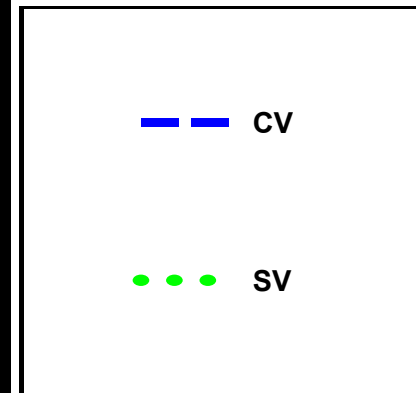
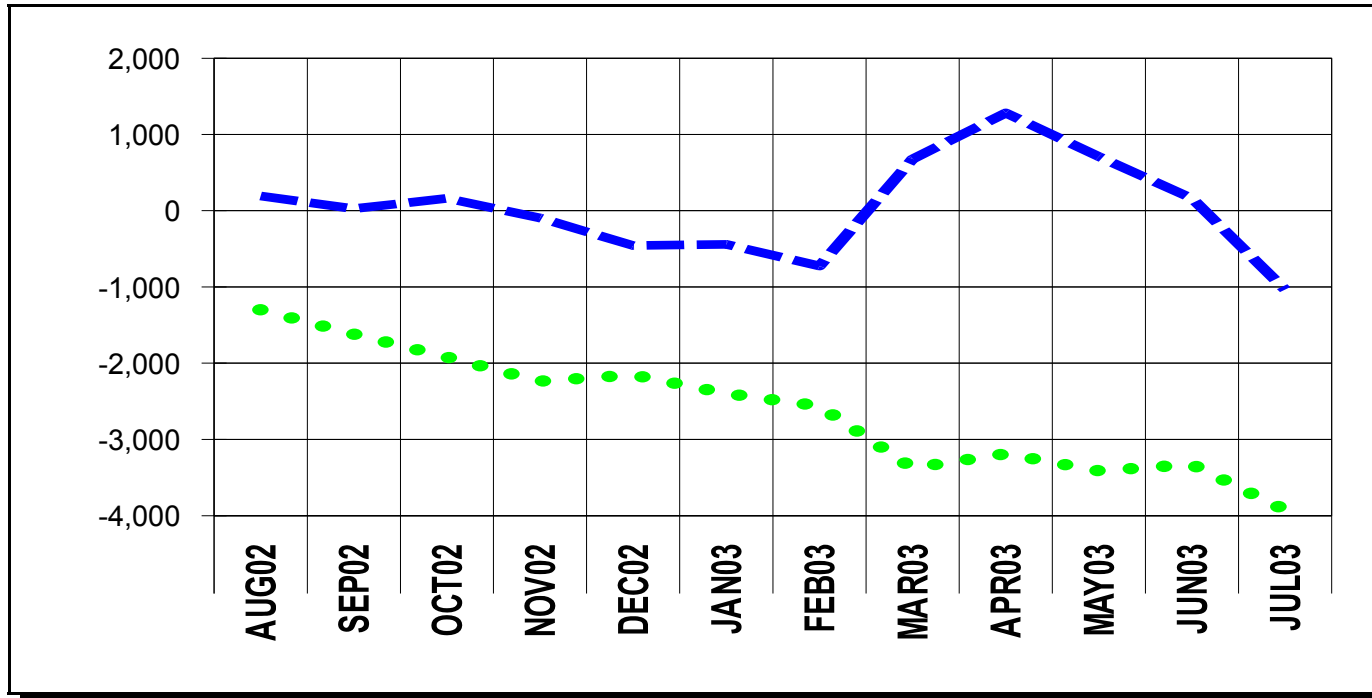


Budget, Cost, Funding, Performance

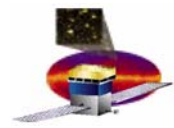




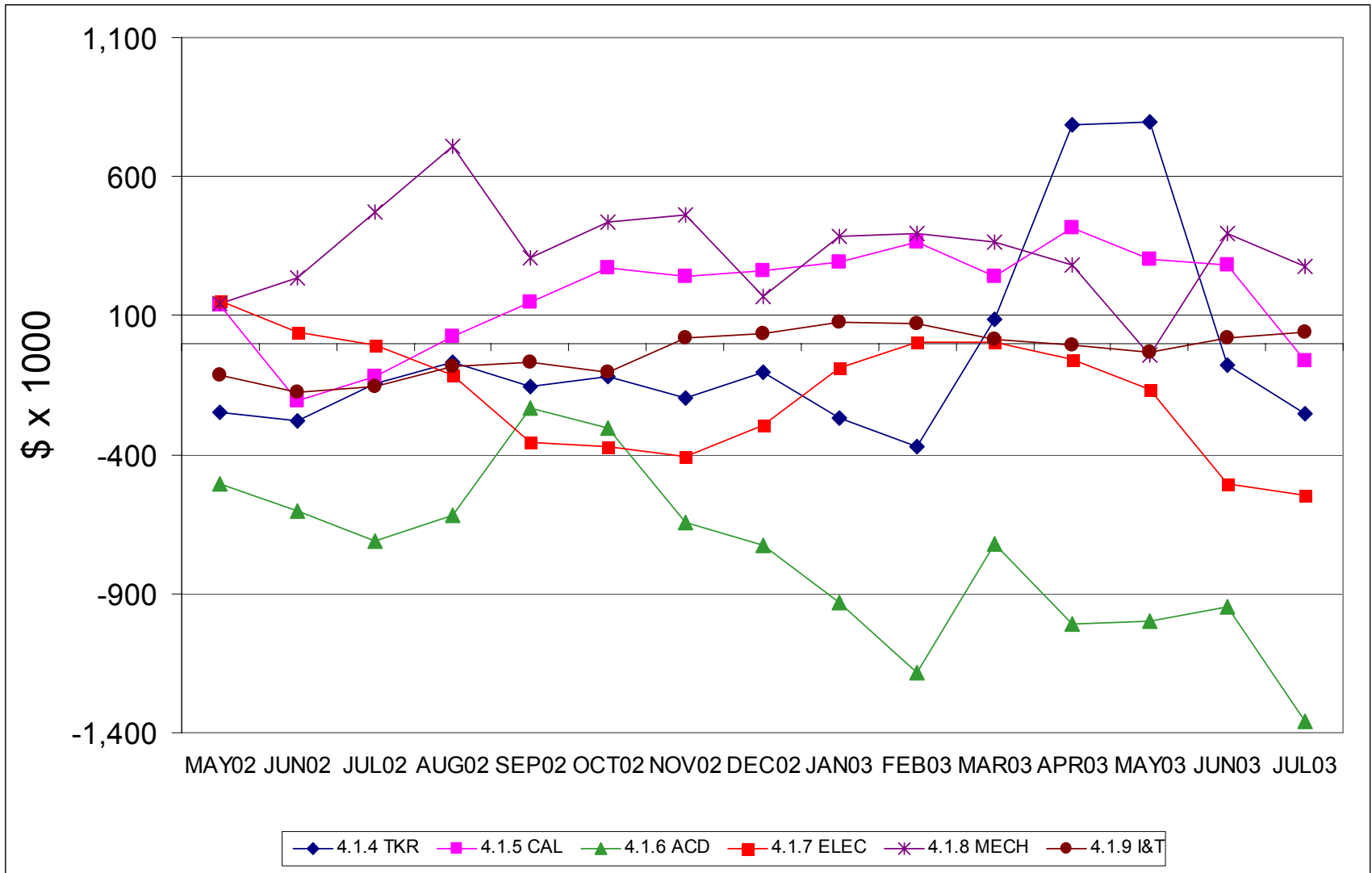
CV and SV Chart

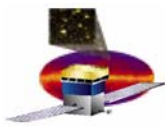


	AUG02	SEP02	OCT02	NOV02	DEC02	JAN03	FEB03	MAR03	APR03	MAY03	JUN03	JUL03
BCWS	31,457	34,115	36,156	38,062	40,084	42,282	44,453	49,491	52,819	55,249	57,895	60,155
BCWP	30,155	32,495	34,234	35,824	37,927	39,881	41,890	46,114	49,627	51,835	54,564	56,229
ACWP	29,961	32,468	34,071	35,918	38,384	40,322	42,615	45,435	48,344	51,125	54,402	57,264
CV	194	27	163	-95	-457	-441	-725	679	1,283	710	162	-1,035
SV	-1,302	-1,620	-1,922	-2,238	-2,157	-2,400	-2,563	-3,377	-3,192	-3,414	-3,331	-3,926



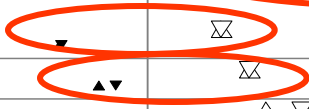
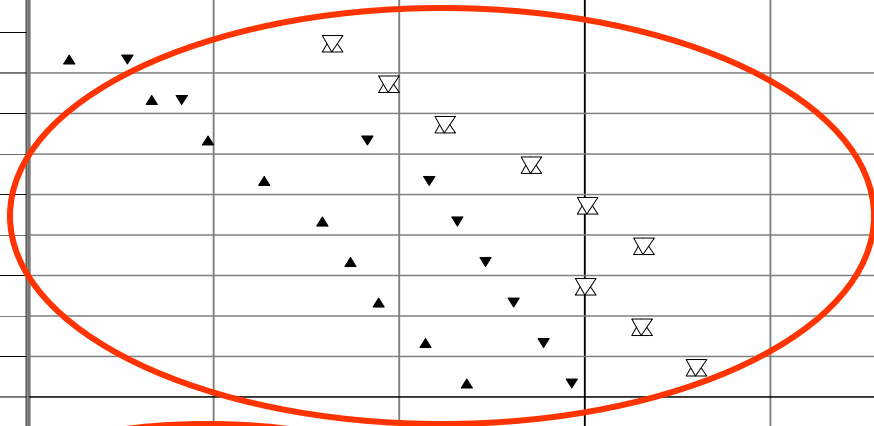
CV Chart (Major Subsystems)

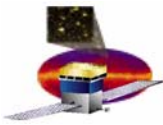




Key Level 3 Milestones

Activity Description	FY04														FY05	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB		
	4.1.4 Tracker															
Tracker Modules A & B RFI (for Calibration)	▲	▼			⊗											
Tracker Modules 1 & 2 RFI (for Calibration)			▲	▼		⊗										
Flight Tracker Tower 3, 4 RFI				▲		▼	⊗									
Flight Tracker Tower 5, 6 RFI					▲		▼	⊗								
Flight Tracker Tower 7, 8 RFI					▲		▼		⊗							
Flight Tracker Tower 9, 10 RFI						▲		▼		⊗						
Flight Tracker Tower 11, 12 RFI							▲		▼		⊗					
Flight Tracker Tower 13, 14 RFI								▲		▼		⊗				
Flight Tracker Tower 15, 16 RFI									▲		▼		⊗			
4.1.5 Calorimeter																
Calorimeter Modules A & B RFI (for Calibration)		▼		⊗												
Calorimeter Modules 1 & 2 RFI (for Calibration)		▲	▼		⊗											
Flight Calorimeter Tower 3, 4 RFI				▲		△	▼									
Flight Calorimeter Tower 5, 6 RFI					▲		△	▼								
Flight Calorimeter Tower 7, 8 RFI						▲		△	▼							
Flight Calorimeter Tower 9, 10 RFI							▲		△	▼						
Flight Calorimeter Tower 11, 12 RFI								▲		△	▼					
Flight Calorimeter Tower 13, 14 RFI									▲		△	▼				
Flight Calorimeter Tower 15, 16 RFI										▲		△	▼			
4.1.6 ACD																
ACD Flight Unit at SLAC, Tested/Inspected & RFI									▲					△	▼	





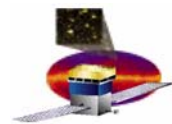
Key Level 3 Milestones

Activity Description	FY04												FY05	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
	4.1.7 Electronics													
Flight TEM Assy 3,4-Elec to I&T						▲ ▼								
Flight TEM PS Assy 3,4-Elec to I&T						▲ ▼			⊗					
Flight TEM Assy 5,6-Elec to I&T						▲ ▼								
Flight TEM PS Assy 5,6-Elec to I&T						▲ ▼			⊗					
Flight TEM Assy 7,8-Elec to I&T						▲ ▼								
Flight TEM PS Assy 7,8-Elec to I&T						▲ ▼			⊗					
Flight TEM Assy 9,10-Elec to I&T						▲ ▼								
Flight TEM PS Assy 9, 10-Elec to I&T						▲ ▼			⊗					
Flight TEM Assy 11, 12-Elec to I&T						▲ ▼								
Flight TEM PS Assy 11, 12-Elec to I&T						▲ ▼			⊗					
Flight TEM Assy 13, 14-Elec to I&T						▲ ▼								
Flight TEM PS Assy 13,14-Elec to I&T						▲ ▼			⊗					
Flight TEM Assy 15, 16-Elec to I&T						▲ ▼								
Flight TEM PS Assy 15,16-Elec to I&T						▲ ▼			⊗					
Flight Event Processor Units-Elec to I&T									▲ ▼					
Flight Harness-Elec to I&T									▲ ▼					
Flight SIU-Elec to I&T									▲ ▼					
Flight ACD Elec Module-Elec to I&T									▲ ▼					
4.1.8 Mechanical														
Flight Grid RFI-Mech to I&T						▲ ▼			⊗					
X-LAT Thermal Plate RFI from Mech to I&T										▲ ▼				
Radiators ready for I&T (from Mech to I&T)											▲ ▼			

Run Date 08/21/03 09:07
 Data Date 08/01/03
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GLAST LAT PROJECT
 AV: Float to
 Key Level 3 Milestones

LT-T7: Level 3 to AV:(tb)
 FL-D3: Integration Milestones
 AV: Up Triangle, L3: Down Triangle
 Sheet 2



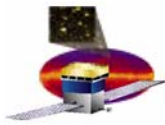
Additional Key L3 Milestones

Activity Description	FY03												FY04															
	SE	OD	ND	DE	JA	FE	MA	AP	MA	JU	JU	AU	SE	OD	ND	DE	JA	FE	MA	AP	MA	JU	JU	AU	SE	OD		
Key Internal Milestones																												
4.1.4 Tracker																												
Delv of TKR EM to SLAC I&T/MGSE																												
4.1.5 Calorimeter																												
EM from CAL to I&T																												
4.1.6 ACD																												
ACD Calibration Test Unit at SLAC, Tested & RFI																												
4.1.7 Electronics																												
CU IPS - ELX to I&T/Online																												
CU S/C Simulator - ELX to I&T Online																												
EGSE Calibration Unit Release-Elec to I&T																												
EM2 TEM Assy A,B-Elec to I&T																												
EM2 TEM PS Assy A,B-Elec to I&T																												
Flt S/C Simulator - ELX to I&T																												
Flight TEM Assy 1,2-Elec to I&T																												
Flight TEM PS Assy 1,2-Elec to I&T																												
EGSE Flight Unit Release-Elec to I&T																												
4.1.8 Mechanical																												
Delivery of EM (1X4) Grid to I&T/MSGE																												
4.1.9 I&T																												
Flight Tracker Tower 1, 2 RFI from I&T to I&T																												
Flight Calorimeter Tower 1,2 RFI from I&T to I&T																												

Run Date 08/21/03 09:03
 Data Date 08/01/03
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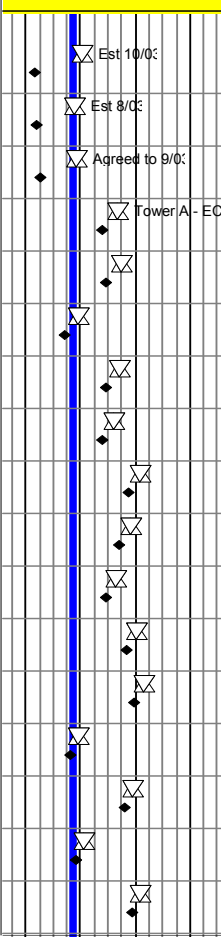
GLAST LAT PROJECT
 AV: Float to
 Key Internal Level 3 Milestones

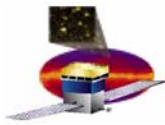
LT-T6: Internal: Level 3 to AV:(tb)
 FL-D8: Internal: LV3 to AV:
 AV: Up Triangle, L3: Down Triangle
 Sheet 1



AV: Sort by Float to Level 3

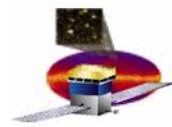
AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	FY			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
8	1M1001380	9	Delivery of EM (1X4) Grid to I&T/MSGE	10/01/03	-168	-171	-34	-205	12/02/02*	10/01/03*				
4	1M1001430	9	Delv of TKR EM to SLAC I&T/MGSE	08/22/03	-164	-164	-9	-173	12/09/02*	08/22/03*				
7	1M1001390	9	GEM h/w driver, final ver-ELX to I&T/Online	09/02/03	-111	-143	-22	-165	01/07/03	09/02/03				
4	1M1000200	9	Tracker Modules A & B RFI (for Calibration)	05/28/04	1	1	-74	-73	02/17/04*	05/28/04*				
4	1M1000220	9	Tracker Modules 1 & 2 RFI (for Calibration)	06/25/04	4	4	-77	-73	03/15/04*	06/25/04*				
7	1M7941150	9	EGSE EM2 Release-Elec to I&T	09/15/03	0	-65	0	-65	06/12/03*	09/15/03*				
7	1M7941060	9	Flight TEM PS Assy 1,2-Elec to I&T	06/10/04	-19	-19	-43	-62	03/15/04*	06/10/04*				
5	1M1000210	9	Calorimeter Modules A & B RFI (for Calibration)	05/06/04	-27	-39	-18	-57	02/17/04*	05/06/04*				
4	1M1000280	9	Flight Tracker Tower 9, 10 RFI	10/29/04	31	31	-86	-55	08/12/04*	10/29/04*				
7	1M7940920	9	Flight TEM PS Assy 3,4-Elec to I&T	09/01/04	-12	-12	-43	-55	06/15/04*	09/01/04*				
5	1M1000230	9	Calorimeter Modules 1 & 2 RFI (for Calibration)	05/20/04	-18	-32	-16	-48	03/15/04*	05/20/04*				
4	1M1000270	9	Flight Tracker Tower 7, 8 RFI	10/01/04	41	41	-86	-45	07/29/04*	10/01/04*				
4	1M1000310	9	Flight Tracker Tower 15, 16 RFI	11/24/04	10	10	-53	-43	09/24/04*	11/24/04*				
4	1M1000910	7	(36) MCM's for EM2 from Tracker to Elec	09/15/03	-3	-3	-37	-40	07/18/03	09/15/03				
4	1M1000260	9	Flight Tracker Tower 5, 6 RFI	09/03/04	49	49	-85	-36	07/15/04*	09/03/04*				
7	1M75000000	5	(6) EM2 TEM-from Elec to CAL	10/15/03	20	20	-56	-36	08/25/03	10/15/03				
4	1M1000300	9	Flight Tracker Tower 13, 14 RFI	10/28/04	9	9	-43	-34	09/10/04*	10/28/04*				





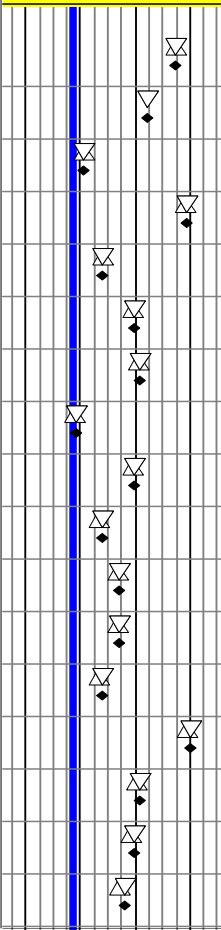
AV: Sort by Float to Level 3 [cont.]

AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	FY			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
7	1M7940940	9	Flight TEM PS Assy 5,6-Elec to I&T	09/01/04	9	9	-43	-34	07/15/04*	09/01/04*				
7	1M7941160	9	EGSE Calibration Unit Release-Elec to I&T	03/03/04	17	-17	-16	-33	01/14/04	03/03/04				
9	1M1001520	5	EM CAL Returned to NRL (arrives on dock)	10/17/03	4	-40	11	-29	09/08/03*	10/17/03				
7	1M7940960	9	Flight TEM PS Assy 7,8-Elec to I&T	09/09/04	14	14	-43	-29	07/29/04*	09/09/04*				
4	1M1000250	9	Flight Tracker Tower 3, 4 RFI	07/23/04	50	50	-77	-27	06/15/04*	07/23/04*				
8	1M1000240	9	Flight Grid RFI-Mech to I&T	07/21/04	39	57	-82	-25	06/15/04*	07/21/04*				
4	1M1000290	9	Flight Tracker Tower 11, 12 RFI	09/30/04	23	23	-47	-24	08/26/04*	09/30/04*				
7	1M7940980	9	Flight TEM PS Assy 9, 10-Elec to I&T	09/16/04	19	19	-43	-24	08/12/04*	09/16/04*				
5	1M59000000	9	EM from CAL to I&T	08/07/03	0	-12	-11	-23	07/07/03*	08/07/03				
7	1M7941050	9	Flight TEM Assy 1,2-Elec to I&T	04/15/04	-16	-16	-7	-23	03/15/04*	04/15/04*				
7	1M7941000	9	Flight TEM PS Assy 11, 12-Elec to I&T	09/23/04	24	24	-43	-19	08/26/04*	09/23/04*				
7	1M7941020	9	Flight TEM PS Assy 13,14-Elec to I&T	09/30/04	29	29	-43	-14	09/10/04*	09/30/04*				
7	1M7941040	9	Flight TEM PS Assy 15,16-Elec to I&T	10/07/04	34	34	-43	-9	09/24/04*	10/07/04*				
7	1M7941070	9	Flight ICM/GLT-Elec to I&T	09/28/04	44	10	-16	-6	09/20/04*	09/28/04*				
7	1M7941100	9	Flight ACD Elec Module-Elec to I&T	09/28/04	44	10	-16	-6	09/20/04*	09/28/04*				
7	1M7941170	9	EGSE Flight Unit Release-Elec to I&T	05/26/04	26	11	-16	-5	05/19/04*	05/26/04*				
7	1M7941080	9	Flight SIU-Elec to I&T	09/22/04	17	5	-7	-2	09/20/04*	09/22/04*				



AV: Sort by Float to Level 3 [cont.]

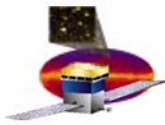
AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	Fiscal Year			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
9	1M1001740	B	Online FU S/W Final Release-I&T to IOC	06/21/05	4	4	-5	-1	06/20/05*	06/21/05*				
B	1M1000112	B	Mission Operations Review (L-21mo.)		0	0	0	0	12/15/04*	12/15/04*				
7	1M1000920	4	EM2 TEM for Qual Towers A,B from Elec to Tracker	10/15/03	57	57	-56	1	10/16/03*	10/16/03*				
9	1M1000130	2	LAT Ready to Ship	08/30/05	29	29	-27	2	09/01/05*	09/01/05*				
7	1M19500540	9	Flt S/C Simulator - ELX to I&T	02/23/04	26	26	-22	4	02/27/04*	02/27/04*				
7	1M7941110	9	Flight Harness-Elec to I&T	09/14/04	11	11	-7	4	09/20/04*	09/20/04*				
6	1M1000410	9	ACD Flight Unit at SLAC, Tested/Inspected & RFI	10/15/04	24	6	0	6	10/25/04*	10/25/04*				
7	1M19500400	9	CU S/C Simulator - ELX to I&T Online	08/21/03	28	28	-22	6	08/29/03*	08/29/03*				
7	1M7941090	9	Flight Event Processor Units-Elec to I&T	09/10/04	6	6	0	6	09/20/04*	09/20/04*				
6	1M1000990	9	ACD Calibration Test Unit at SLAC, Tested & RFI	02/02/04	53	10	0	10	02/17/04*	02/17/04*				
5	1M1000400	9	Flight Calorimeter Tower 3, 4 RFI	05/28/04	41	29	-18	11	06/15/04*	06/15/04*				
7	1M7940910	9	Flight TEM Assy 3,4-Elec to I&T	05/27/04	19	19	-7	12	06/15/04*	06/15/04*				
B	1M005480	B	IOC CDR	01/23/04	44	-38	54	16	02/17/04*	02/17/04*				
1	1M1001100		Deliver Updated Models	09/06/05	47	47	-29	18	09/30/05*	09/30/05*				
8	1M941710	9	X-LAT Thermal Plate RFI from Mech to I&T	09/30/04	60	40	-22	18	10/26/04*	10/26/04*				
5	1M1000340	9	Flight Calorimeter Tower 15, 16 RFI	08/24/04	37	23	-1	22	09/24/04*	09/24/04*				
5	1M1000390	9	Flight Calorimeter Tower 5, 6 RFI	06/09/04	55	42	-17	25	07/15/04*	07/15/04*				



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GLAST LAT PROJECT
Level 3 Milestones
Sort by Float

LT-T5: AV: Sort by Float to Level 3(tb)
 FL-T4: Level 3 Milestones (tb)
 Sheet 3



AV: Sort by Float to Level 3 [cont.]

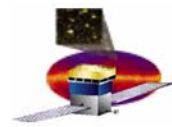
AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	Fiscal Year			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
5	1M1000350	9	Flight Calorimeter Tower 13, 14 RFI	08/04/04	41	31	-5	26	09/10/04*	09/10/04*				
5	1M1000380	9	Flight Calorimeter Tower 7, 8 RFI	06/18/04	55	45	-17	28	07/29/04*	07/29/04*				
7	1M7940930	9	Flight TEM Assy 5,6-Elec to I&T	06/04/04	35	35	-7	28	07/15/04*	07/15/04*				
5	1M1000360	9	Flight Calorimeter Tower 11, 12 RFI	07/15/04	45	40	-10	30	08/26/04*	08/26/04*				
5	1M1000370	9	Flight Calorimeter Tower 9, 10 RFI	06/30/04	50	48	-18	30	08/12/04*	08/12/04*				
9	1M1000320	9	Flight Tracker Tower 1, 2 RFI from I&T to I&T	08/25/04	61	31	0	31	10/08/04*	10/08/04*				
9	1M1000330	9	Flight Calorimeter Tower 1,2 RFI from I&T to I&T	08/25/04	61	31	0	31	10/08/04*	10/08/04*				
7	1M7940950	9	Flight TEM Assy 7,8-Elec to I&T	06/11/04	40	40	-7	33	07/29/04*	07/29/04*				
6	1M1001000	9	ACD Test Scripts (from ACD to I&T)	06/11/04	53	35	0	35	08/02/04*	08/02/04*				
7	1M7941130	9	EM2 TEM PS Assy A,B-Elec to I&T	12/15/03	80	80	-43	37	02/17/04*	02/17/04*				
7	1M7940970	9	Flight TEM Assy 9,10-Elec to I&T	06/18/04	45	45	-7	38	08/12/04*	08/12/04*				
8	1M941720	9	Radiators ready for I&T (from Mech to I&T)	12/13/04	82	62	-22	40	02/16/05*	02/16/05*				
7	1M7940990	9	Flight TEM Assy 11, 12-Elec to I&T	06/25/04	50	50	-7	43	08/26/04*	08/26/04*				
7	1M7941120	9	EM2 TEM Assy A,B-Elec to I&T	12/01/03	103	103	-56	47	02/17/04*	02/17/04*				
7	1M7941010	9	Flight TEM Assy 13, 14-Elec to I&T	07/02/04	55	55	-7	48	09/10/04*	09/10/04*				
7	1M7941030	9	Flight TEM Assy 15, 16-Elec to I&T	07/12/04	60	60	-7	53	09/24/04*	09/24/04*				
7	1M19500520	9	FU IPS - ELX to I&T/Online	04/01/04	261	63	0	63	06/30/04*	06/30/04*				

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GLAST LAT PROJECT
Level 3 Milestones
Sort by Float

LT-T5: AV: Sort by Float to Level 3(tb)
 FL-T4: Level 3 Milestones (tb)

Sheet 4

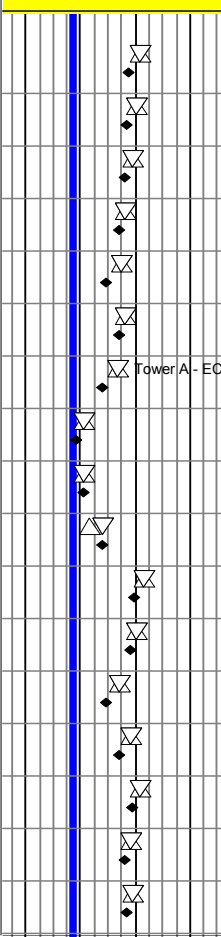


AV: Sort by Float to Level 3 [cont.]

AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	Fiscal Year		
											FY03	FY04	FY05
Instrument Project Office (Level 3)													
D	1M1001620	9	LAT Calibr algorithms & Doc- SAS to I&T SVAC	08/08/03	280	259	-9	250	08/12/04*	08/12/04*			
D	1M1001690	9	LAT Monte Carlo simulation by SAS to I&T SVAC	08/28/03	200	297	0	297	11/08/04*	11/08/04*			

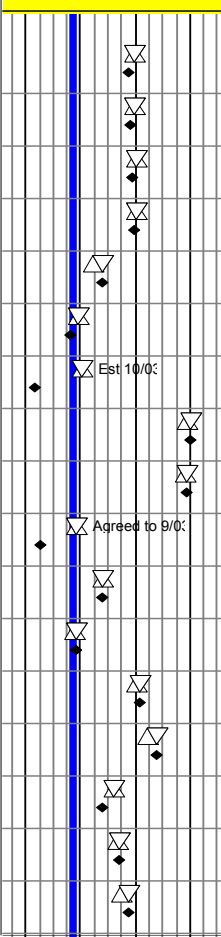
AV: Sort by Float Change to Level 3

AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	FY			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
4	1M1000280	9	Flight Tracker Tower 9, 10 RFI	10/29/04	31	31	-86	-55	08/12/04*	10/29/04*				
4	1M1000270	9	Flight Tracker Tower 7, 8 RFI	10/01/04	41	41	-86	-45	07/29/04*	10/01/04*				
4	1M1000260	9	Flight Tracker Tower 5, 6 RFI	09/03/04	49	49	-85	-36	07/15/04*	09/03/04*				
8	1M1000240	9	Flight Grid RFI-Mech to I&T	07/21/04	39	57	-82	-25	06/15/04*	07/21/04*				
4	1M1000220	9	Tracker Modules 1 & 2 RFI (for	06/25/04	4	4	-77	-73	03/15/04*	06/25/04*				
4	1M1000250	9	Flight Tracker Tower 3, 4 RFI	07/23/04	50	50	-77	-27	06/15/04*	07/23/04*				
4	1M1000200	9	Tracker Modules A & B RFI (for	05/28/04	1	1	-74	-73	02/17/04*	05/28/04*				
7	1M75000000	5	(6) EM2 TEM-from Elec to CAL	10/15/03	20	20	-56	-36	08/25/03	10/15/03				
7	1M1000920	4	EM2 TEM for Qual Towers A,B	10/15/03	57	57	-56	1	10/16/03*	10/16/03*				
7	1M7941120	9	EM2 TEM Assy A,B-Elec to I&T	12/01/03	103	103	-56	47	02/17/04*	02/17/04*				
4	1M1000310	9	Flight Tracker Tower 15, 16 RFI	11/24/04	10	10	-53	-43	09/24/04*	11/24/04*				
4	1M1000290	9	Flight Tracker Tower 11, 12 RFI	09/30/04	23	23	-47	-24	08/26/04*	09/30/04*				
7	1M7941060	9	Flight TEM PS Assy 1,2-Elec to	06/10/04	-19	-19	-43	-62	03/15/04*	06/10/04*				
7	1M7940920	9	Flight TEM PS Assy 3,4-Elec to	09/01/04	-12	-12	-43	-55	06/15/04*	09/01/04*				
4	1M1000300	9	Flight Tracker Tower 13, 14 RFI	10/28/04	9	9	-43	-34	09/10/04*	10/28/04*				
7	1M7940940	9	Flight TEM PS Assy 5,6-Elec to	09/01/04	9	9	-43	-34	07/15/04*	09/01/04*				
7	1M7940960	9	Flight TEM PS Assy 7,8-Elec to	09/09/04	14	14	-43	-29	07/29/04*	09/09/04*				



AV: Sort by Float Change to Level 3 [cont.]

AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	FY			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
7	1M7940980	9	Flight TEM PS Assy 9, 10-Elec to I&T	09/16/04	19	19	-43	-24	08/12/04*	09/16/04*				
7	1M7941000	9	Flight TEM PS Assy 11, 12-Elec to I&T	09/23/04	24	24	-43	-19	08/26/04*	09/23/04*				
7	1M7941020	9	Flight TEM PS Assy 13,14-Elec to I&T	09/30/04	29	29	-43	-14	09/10/04*	09/30/04*				
7	1M7941040	9	Flight TEM PS Assy 15,16-Elec to I&T	10/07/04	34	34	-43	-9	09/24/04*	10/07/04*				
7	1M7941130	9	EM2 TEM PS Assy A,B-Elec to I&T	12/15/03	80	80	-43	37	02/17/04*	02/17/04*				
4	1M1000910	7	(36) MCM's for EM2 from Tracker to Elec	09/15/03	-3	-3	-37	-40	07/18/03	09/15/03				
8	1M1001380	9	Delivery of EM (1X4) Grid to I&T/MSGE	10/01/03	-168	-171	-34	-205	12/02/02*	10/01/03*				
1	1M1001100		Deliver Updated Models	09/06/05	47	47	-29	18	09/30/05*	09/30/05*				
9	1M1000130	2	LAT Ready to Ship	08/30/05	29	29	-27	2	09/01/05*	09/01/05*				
7	1M1001390	9	GEM h/w driver, final ver-ELX to I&T/Online	09/02/03	-111	-143	-22	-165	01/07/03	09/02/03				
7	1M19500540	9	Fit S/C Simulator - ELX to I&T	02/23/04	26	26	-22	4	02/27/04*	02/27/04*				
7	1M19500400	9	CU S/C Simulator - ELX to I&T Online	08/21/03	28	28	-22	6	08/29/03*	08/29/03*				
8	1M941710	9	X-LAT Thermal Plate RFI from Mech to I&T	09/30/04	60	40	-22	18	10/26/04*	10/26/04*				
8	1M941720	9	Radiators ready for I&T (from Mech to I&T)	12/13/04	82	62	-22	40	02/16/05*	02/16/05*				
5	1M1000210	9	Calorimeter Modules A & B RFI (for Calibration)	05/06/04	-27	-39	-18	-57	02/17/04*	05/06/04*				
5	1M1000400	9	Flight Calorimeter Tower 3, 4 RFI	05/28/04	41	29	-18	11	06/15/04*	06/15/04*				
5	1M1000370	9	Flight Calorimeter Tower 9, 10 RFI	06/30/04	50	48	-18	30	08/12/04*	08/12/04*				



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 Data Date 08/01/03
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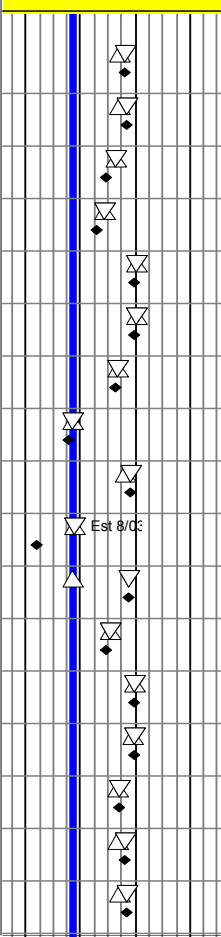
GLAST LAT PROJECT
Level 3 Milestones
Sort by Float Change

LT-T8: AV: Sort by Float Change(tb)
 FL-T4: Level 3 Milestones (tb)

Sheet 2

AV: Sort by Float Change to Level 3 [cont.]

AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	Fiscal Year			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
5	1M1000390	9	Flight Calorimeter Tower 5, 6 RFI	06/09/04	55	42	-17	25	07/15/04*	07/15/04*				
5	1M1000380	9	Flight Calorimeter Tower 7, 8	06/18/04	55	45	-17	28	07/29/04*	07/29/04*				
5	1M1000230	9	Calorimeter Modules 1 & 2 RFI (for	05/20/04	-18	-32	-16	-48	03/15/04*	05/20/04*				
7	1M7941160	9	EGSE Calibration Unit	03/03/04	17	-17	-16	-33	01/14/04	03/03/04				
7	1M7941070	9	Flight ICM/GLT-Elec to I&T	09/28/04	44	10	-16	-6	09/20/04*	09/28/04*				
7	1M7941100	9	Flight ACD Elec Module-Elec to	09/28/04	44	10	-16	-6	09/20/04*	09/28/04*				
7	1M7941170	9	EGSE Flight Unit Release-Elec to	05/26/04	26	11	-16	-5	05/19/04*	05/26/04*				
5	1M59000000	9	EM from CAL to I&T	08/07/03	0	-12	-11	-23	07/07/03*	08/07/03				
5	1M1000360	9	Flight Calorimeter Tower 11, 12	07/15/04	45	40	-10	30	08/26/04*	08/26/04*				
4	1M1001430	9	Delv of TKR EM to SLAC	08/22/03	-164	-164	-9	-173	12/09/02*	08/22/03*				
D	1M1001620	9	LAT Calibr algorithms & Doc- SAS	08/08/03	280	259	-9	250	08/12/04*	08/12/04*				
7	1M7941050	9	Flight TEM Assy 1,2-Elec to I&T	04/15/04	-16	-16	-7	-23	03/15/04*	04/15/04*				
7	1M7941080	9	Flight SIU-Elec to I&T	09/22/04	17	5	-7	-2	09/20/04*	09/22/04*				
7	1M7941110	9	Flight Harness-Elec to I&T	09/14/04	11	11	-7	4	09/20/04*	09/20/04*				
7	1M7940910	9	Flight TEM Assy 3,4-Elec to I&T	05/27/04	19	19	-7	12	06/15/04*	06/15/04*				
7	1M7940930	9	Flight TEM Assy 5,6-Elec to I&T	06/04/04	35	35	-7	28	07/15/04*	07/15/04*				
7	1M7940950	9	Flight TEM Assy 7,8-Elec to I&T	06/11/04	40	40	-7	33	07/29/04*	07/29/04*				



AV: Sort by Float Change to Level 3 [cont.]

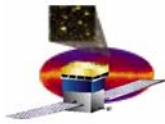
AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	Fiscal Year			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
7	1M7940970	9	Flight TEM Assy 9,10-Elec to I&T	06/18/04	45	45	-7	38	08/12/04*	08/12/04*				
7	1M7940990	9	Flight TEM Assy 11, 12-Elec to I&T	06/25/04	50	50	-7	43	08/26/04*	08/26/04*				
7	1M7941010	9	Flight TEM Assy 13, 14-Elec to I&T	07/02/04	55	55	-7	48	09/10/04*	09/10/04*				
7	1M7941030	9	Flight TEM Assy 15, 16-Elec to I&T	07/12/04	60	60	-7	53	09/24/04*	09/24/04*				
9	1M1001740	B	Online FU S/W Final Release-I&T	06/21/05	4	4	-5	-1	06/20/05*	06/21/05*				
5	1M1000350	9	Flight Calorimeter Tower 13, 14	08/04/04	41	31	-5	26	09/10/04*	09/10/04*				
5	1M1000340	9	Flight Calorimeter Tower 15, 16	08/24/04	37	23	-1	22	09/24/04*	09/24/04*				
7	1M7941150	9	EGSE EM2 Release-Elec to I&T	09/15/03	0	-65	0	-65	06/12/03*	09/15/03*				
B	1M1000112	B	Mission Operations Review		0	0	0	0	12/15/04*	12/15/04*				
6	1M1000410	9	ACD Flight Unit at SLAC,	10/15/04	24	6	0	6	10/25/04*	10/25/04*				
7	1M7941090	9	Flight Event Processor Units-Elec	09/10/04	6	6	0	6	09/20/04*	09/20/04*				
6	1M1000990	9	ACD Calibration Test Unit at	02/02/04	53	10	0	10	02/17/04*	02/17/04*				
9	1M1000320	9	Flight Tracker Tower 1, 2 RFI from	08/25/04	61	31	0	31	10/08/04*	10/08/04*				
9	1M1000330	9	Flight Calorimeter Tower 1,2 RFI	08/25/04	61	31	0	31	10/08/04*	10/08/04*				
6	1M1001000	9	ACD Test Scripts (from ACD to	06/11/04	53	35	0	35	08/02/04*	08/02/04*				
7	1M19500520	9	FU IPS - ELX to I&T/Online	04/01/04	261	63	0	63	06/30/04*	06/30/04*				
D	1M1001690	9	LAT Monte Carlo simulation by	08/28/03	200	297	0	297	11/08/04*	11/08/04*				

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 Data Date 08/01/03
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GLAST LAT PROJECT
Level 3 Milestones
Sort by Float Change

LT-T8: AV: Sort by Float Change(tb)
 FL-T4: Level 3 Milestones (tb)

Sheet 4



AV: Sort by Float Change to Level 3 [cont.]

AV	Activity ID	ND	Activity Description	AV: Early Finish	Float -2m	Float -1m	Float Change	Float	Baseline Finish	Early Finish	FY			
											FY03	FY04	FY05	
Instrument Project Office (Level 3)														
9	1M1001520	5	EM CAL Returned to NRL (arrives on dock)	10/17/03	4	-40	11	-29	09/08/03*	10/17/03				
B	1M005480	B	IOC CDR	01/23/04	44	-38	54	16	02/17/04*	02/17/04*				