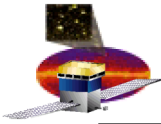


GLAST Large Area Telescope:

TKR Hand-off review for Tower 11

**Hiro Tajima,
Johann Cohen-Tanugi,
Mutsumi Sugizaki
SU-SLAC**

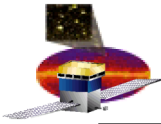
**R. P. Johnson
UCSC**



Power Consumption

- **Values for MCM measurements account for the increase due to PS voltage itself, not current increase due to voltage increase.**

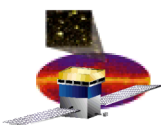
Tower 11	Pisa	SLAC	MCM
Tower total	8.9 W	10.3 W	9.4 W
Tower + TEM/TPS	19.6 W	19.9 W	N/A
Leak current @100V	75 μA	80 μA	N/A



Band Channels (Tower 11)

No major change observed.

Layer	Pre ship (Pisa)				Handoff (SLAC)					Layer
	disconnect	dead	noisy	total	disconnect	dead	noisy	others (offline)	total	
Y17	1	0	0	1	0	0	0	2	2	Y17
X17	1	0	0	1	0	1	0	0	1	X17
X16	0	0	0	0	0	0	0	0	0	X16
Y16	0	0	3	3	0	1	6	0	7	Y16
Y15	0	0	1	1	0	0	1	0	1	Y15
X15	0	0	3	3	0	2	4	0	6	X15
X14	1	0	0	1	1	0	0	0	1	X14
Y14	0	1	3	4	0	2	3	0	5	Y14
Y13	0	0	0	0	0	0	0	0	0	Y13
X13	0	1	0	1	0	1	0	0	1	X13
X12	0	0	1	1	0	0	1	0	1	X12
Y12	0	1	0	1	0	1	0	0	1	Y12
Y11	2	0	0	2	2	0	0	0	2	Y11
X11	10	0	0	10	6	0	0	0	6	X11
X10	0	0	0	0	1	0	0	0	1	X10
Y10	0	0	0	0	0	0	0	0	0	Y10
Y9	3	0	1	4	3	0	0	0	3	Y9
X9	0	1	3	4	0	2	3	0	5	X9
X8	0	1	1	2	0	1	1	0	2	X8
Y8	0	1	0	1	0	1	0	0	1	Y8
Y7	0	1	0	1	1	0	0	1	2	Y7
X7	1	0	0	1	1	0	0	0	1	X7
X6	0	0	0	0	0	0	0	0	0	X6
Y6	0	0	0	0	0	0	0	0	0	Y6
Y5	0	0	3	3	1	0	3	0	4	Y5
X5	0	0	0	0	0	0	0	0	0	X5
X4	0	0	0	0	0	0	0	0	0	X4
Y4	0	4	0	4	0	4	0	0	4	Y4
Y3	1	6	2	9	1	6	1	0	8	Y3
X3	0	0	0	0	0	0	0	0	0	X3
X2	0	0	1	1	0	1	1	0	2	X2
Y2	0	2	1	3	0	3	1	0	4	Y2
Y1	0	2	3	5	0	1	3	0	4	Y1
X1	0	0	6	6	1	2	9	0	12	X1
X0	8	1	2	11	8	1	2	0	11	X0
Y0	0	0	0	0	0	0	0	1	1	Y0
Total	28	22	34	84	26	30	39	4	99	
Fraction	0.05%	0.04%	0.06%	0.15%	0.05%	0.05%	0.07%	0.01%	0.18%	



Hit and Trigger Efficiency

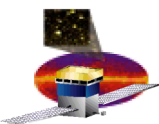
Hit Efficiency

	pre-ship	error	hand-off	error	delta/error
Y0	99.4	0.07	99.29	0.07	-1.1
X0	99.4	0.07	99.33	0.06	-0.7
X1	99.7	0.05	99.41	0.06	-2.9
Y1	99.8	0.04	99.76	0.04	-0.4
Y2	99.7	0.04	99.72	0.04	0.2
X2	99.8	0.04	99.71	0.04	-0.9
X3	99.5	0.06	99.58	0.05	0.8
Y3	99.4	0.06	99.20	0.07	-2.0
Y4	99.6	0.05	99.41	0.06	-1.9
X4	99.6	0.05	99.71	0.04	1.1
X5	99.7	0.05	99.70	0.04	0.0
Y5	99.6	0.05	99.61	0.05	0.1
Y6	99.8	0.04	99.77	0.04	-0.3
X6	99.8	0.04	99.75	0.04	-0.5
X7	99.9	0.03	99.82	0.03	-0.8
Y7	99.9	0.03	99.77	0.04	-1.3
Y8	99.9	0.03	99.86	0.03	-0.4
X8	99.8	0.04	99.82	0.03	0.2
X9	99.8	0.04	99.66	0.04	-1.4
Y9	99.8	0.04	99.74	0.04	-0.6
Y10	99.9	0.03	99.88	0.03	-0.2
X10	99.9	0.03	99.89	0.02	-0.1
X11	99.8	0.04	99.59	0.05	-2.1
Y11	99.8	0.04	99.77	0.04	-0.3
Y12	99.9	0.03	99.91	0.02	0.1
X12	99.8	0.04	99.82	0.03	0.2
X13	99.8	0.04	99.72	0.04	-0.8
Y13	99.8	0.04	99.90	0.02	1.0
Y14	99.7	0.04	99.55	0.05	-1.5
X14	99.8	0.03	99.75	0.04	-0.5
X15	99.8	0.03	99.71	0.04	-0.9
Y15	99.9	0.02	99.89	0.02	-0.1
Y16	99.9	0.02	99.79	0.03	-1.1
X16	99.9	0.03	99.82	0.03	-0.8
X17	99.6	0.05	99.58	0.05	-0.2
Y17	99.5	0.06	99.42	0.06	-0.8
average	99.74	0.01	99.68	0.01	-5.5

Trigger Efficiency

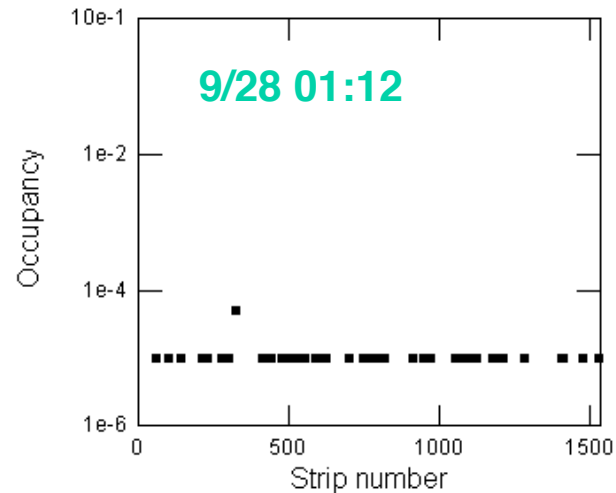
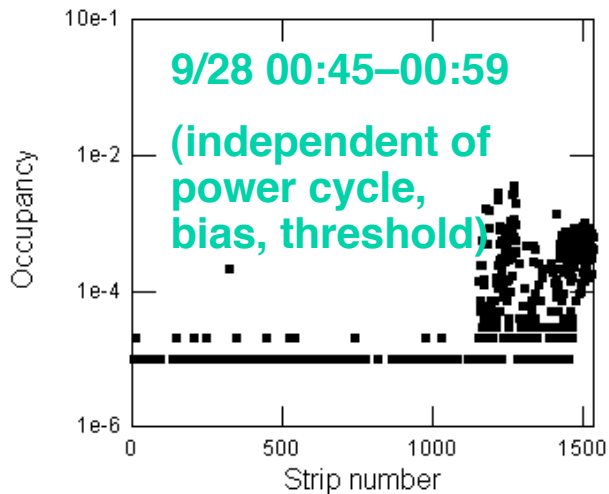
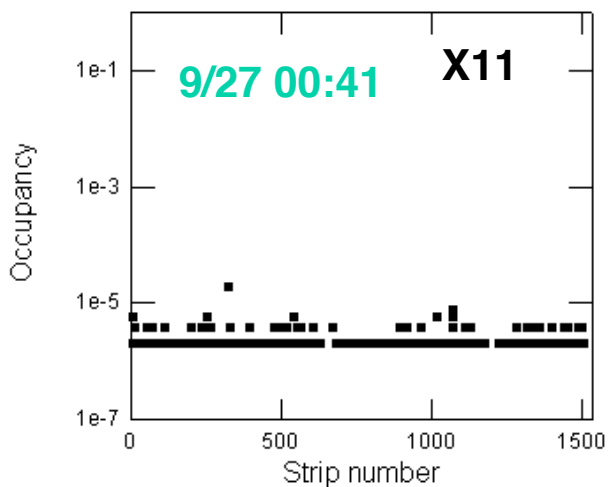
trigger combination	handoff
C0-1-2	99.3
C1-2-3	99.3
C2-3-4	99.4
C3-4-5	99.8
C4-5-6	99.7
C5-6-7	99.7
C6-7-8	99.6
C7-8-9	99.2
C8-9-10	99.4
C9-10-11	99.7
C10-11-12	99.7
C11-12-13	99.6
C12-13-14	99.8
C13-14-15	99.8
C14-15-16	99.8
C15-16-17	99.8

No major change observed except for inefficiency due to hot strips in Y8. (Hot strips in this layer is not stable.)



Notes and Anomalies

- Intermittent hot strips observed.
 - Noise occupancy monitoring needed during data taking.



Time profile (9/29 23:20–25:15)

