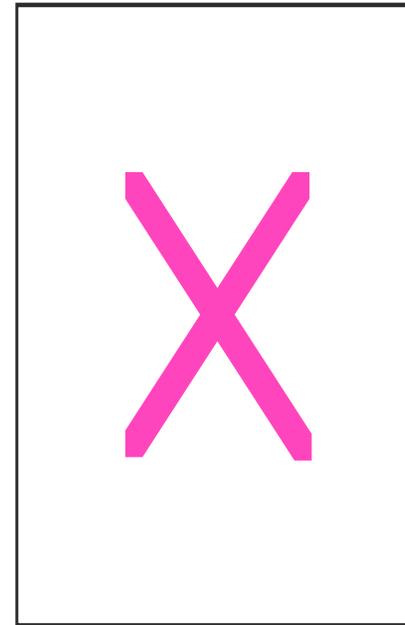


GAMMA-RAY BURST MONITOR



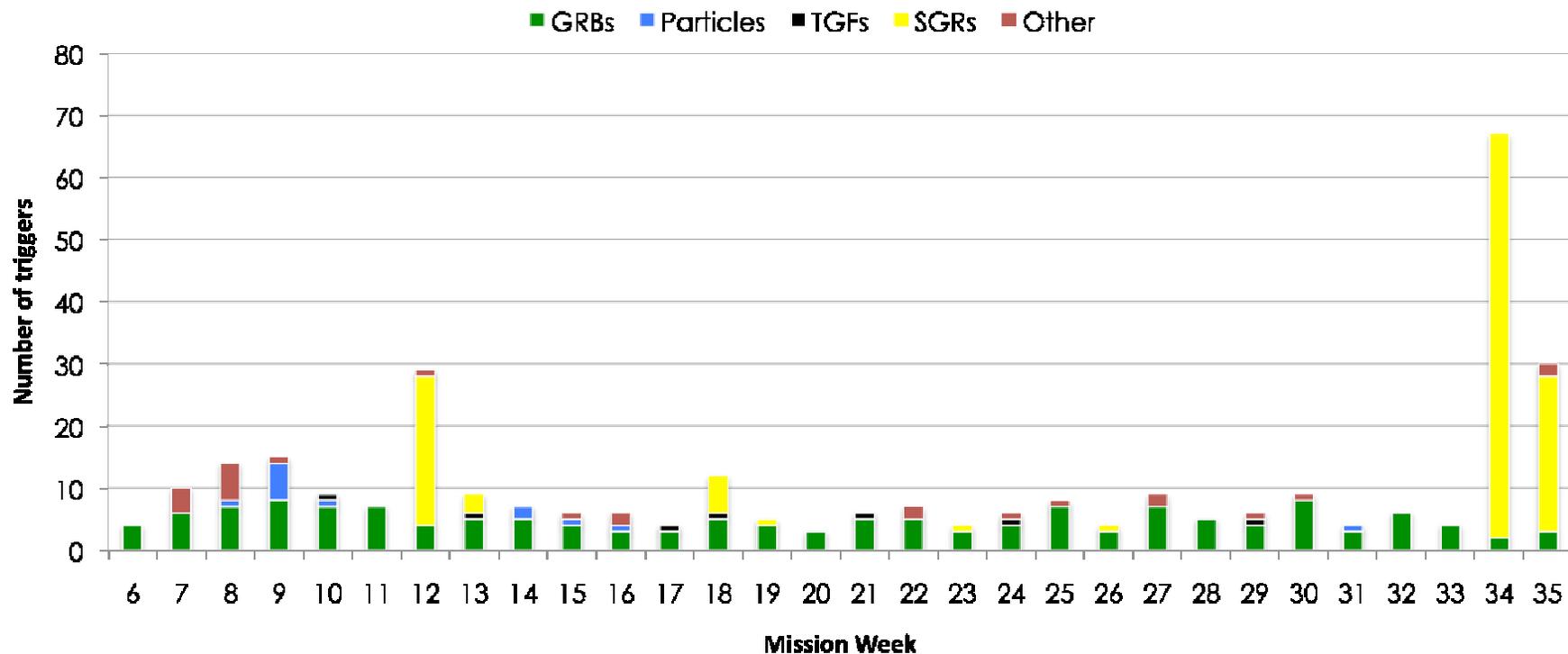
Status, Results, Plans

Bill Paciesas



GBM Triggers

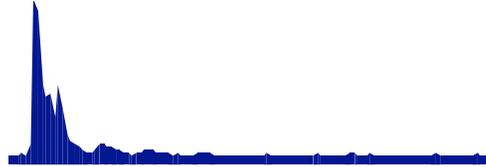
- ★ 315 triggers in 208 days
- ★ 144 GRBs
- ★ 126 SGR (90 from AXP 1E1547.0–5408)
- ★ 9 terrestrial Gamma Flashes
- ★ 13 particle events
- ★ 23 others, including 1 solar flare





GRB Localization Accuracy

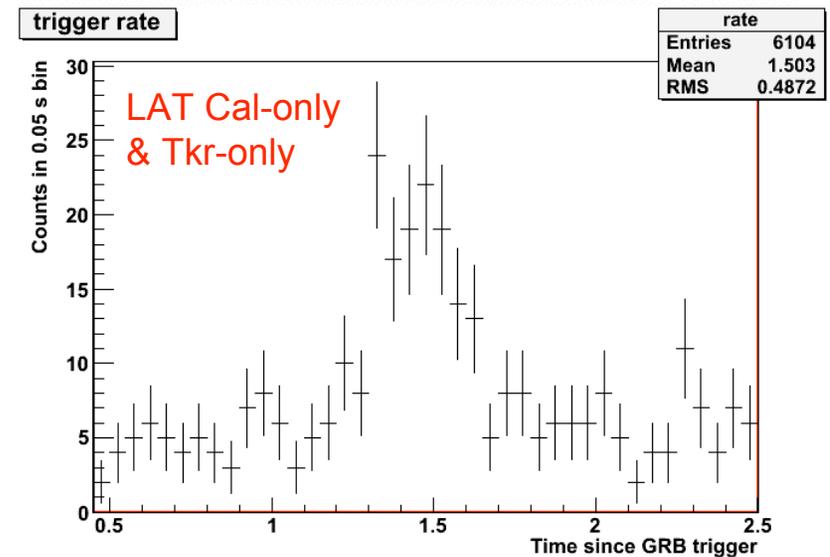
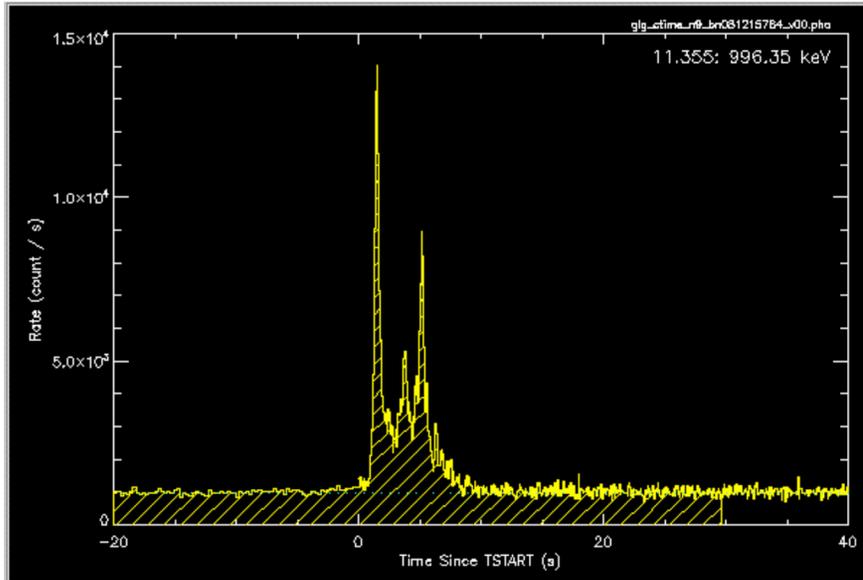
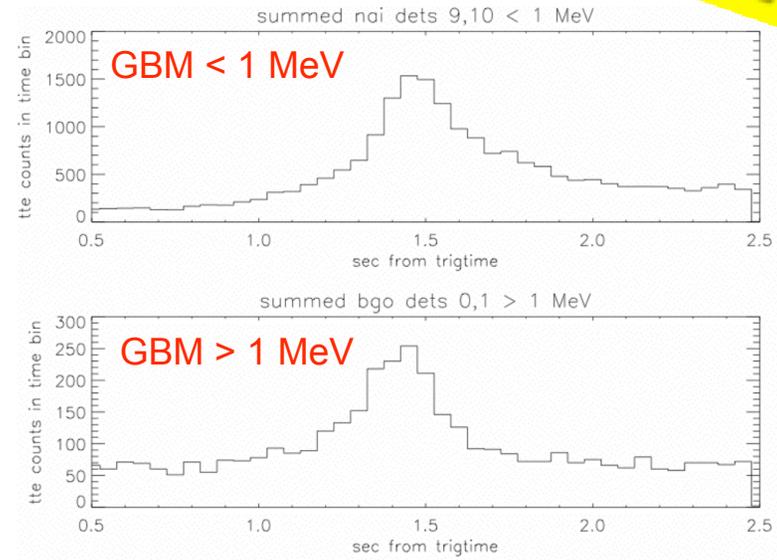
Type	Number of GRBs with accurate independent locations	Reported Average Error (degrees)	Actual Average Error (degrees)	Inferred Systematic Error (degrees)
FSW	18 bursts with good on-board error estimates	12.0	9.6	Included in FSW error estimate
Automatic on-ground	22	6.9	7.6	3.5
Human-in-loop I	24	4.78	4.35	--
Human-in-loop II	30	3.67	3.98	2.06



GRB 081215A

Preliminary

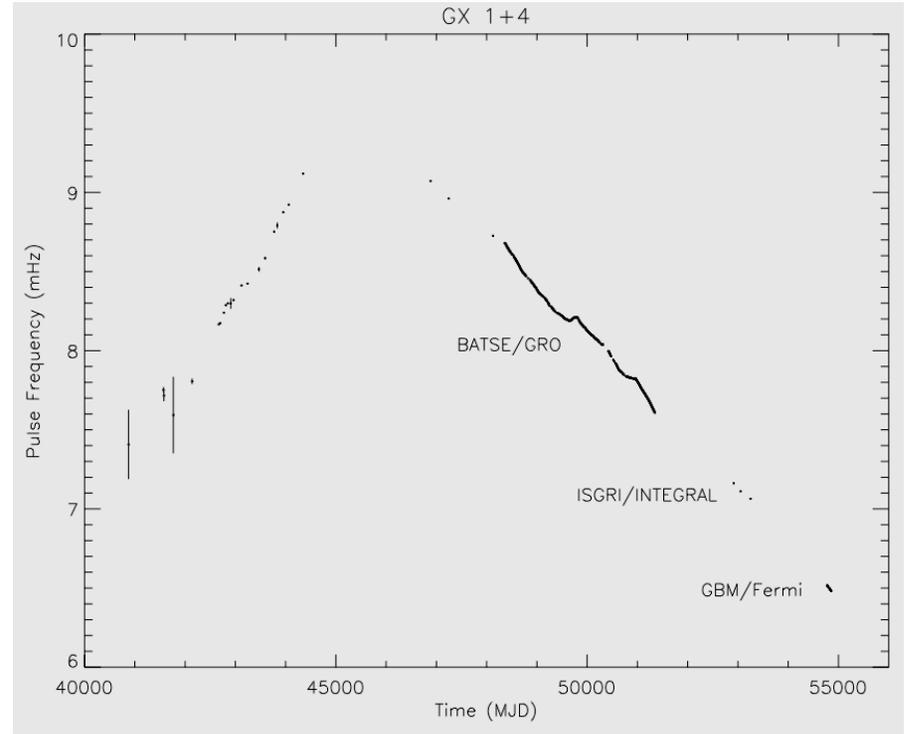
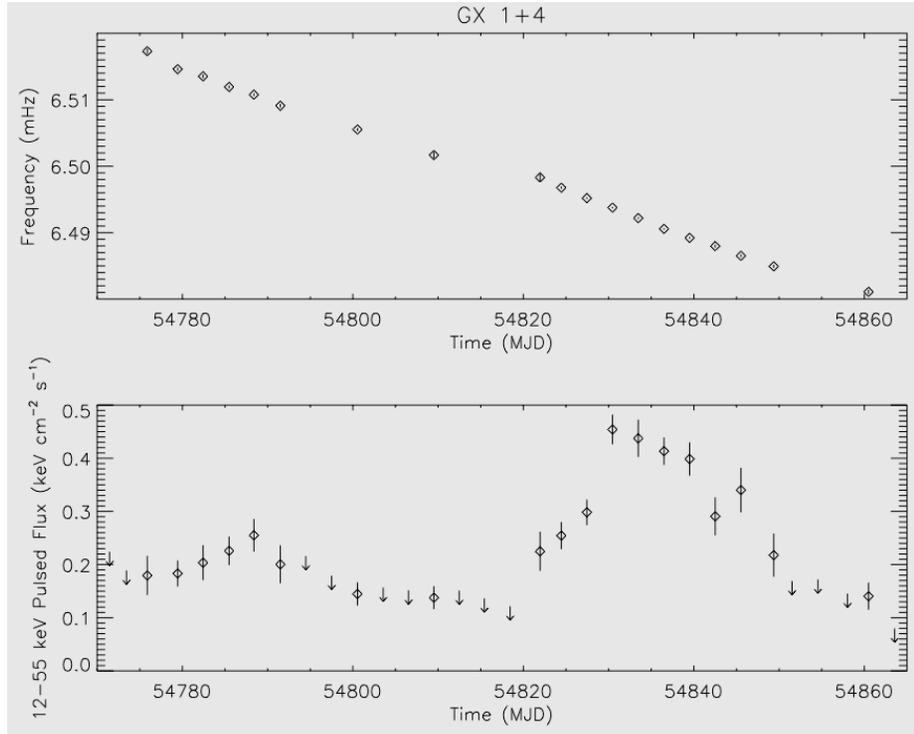
- ✦ Intense hard event at $\sim 90^\circ$ to LAT axis
- ✦ Would have been a good re-point candidate but GBM did not recommend re-point
 - FSW location was below horizon
 - On-board algorithm makes assumptions about spectral hardness & atmospheric scattering that were not optimal for this GRB
- ✦ What is the LAT response to cal-only or tkr-only events?



Pulsed Source Monitoring GX 1+4



Preliminary





Near-Term Plans

✦ FSW revision

- Improve classification of triggers
 - ✦ Simplify inclusion of known active sources (esp. SGRs)
 - ✦ Add special algorithms for TGFs
- Add more ARR decision info to TRIGDAT
- Misc operational improvements
- ✦ Improve & quantify of location accuracy
- ✦ Improve calibration & detector response