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# GLAST Monthly PSR

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**Systems**

*Jack Leibee / Norman Rioux*



# Accomplishments

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- ▶ ***ICDs sent to GBM and LAT for signature March 21st***
- ▶ ***ORSAT analysis task has transitioned to JSC***
  - *Results expected around end of May*
- ▶ ***Pointing TIM held at Project***
  - *Gained clarity on role of science gamma ray tracing algorithm w/r to thermal mechanical stability*
  - *Clarified basis for STOP analysis*
    - *unified treatment of thermal/mechanical distortion throughout the observatory*
    - *closure of sum vs RSS of error terms discussion*
  - *Established Project Office consensus going into PDR and CDR*



# Accomplishments

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- ▶ ***Numerous CCRs driven to closure through the CCR process***
- ▶ ***S/C PDR Dry Run #2 Supported***
- ▶ ***Lateral CG budget established as 20 mm***
- ▶ ***SRR failure modes issue closed***
  - *cross strap A and B side I/O ports to housekeeping data*
  - *accept loss of science data in a C&DH switchover to/from A/B side*
  - *maintain housekeeping data access from either A or B side of C&DH*
- ▶ ***Presented systems engineering overview to the Code 300 and EIRT project review committee***



# Issues/Problems

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▶ **ICD Completion**

- *LAT review complete subject to caveats - approved with comments*
- *GBM review in progress*

▶ **ORSAT task received by JSC - progress awaiting funding**

▶ **Slew performance with a single failure**

- *SAI to show performance with 27 watt performance envelope*
- *Time to complete 75 degree slews*
- *Review results with science team for science impact*

▶ **99% Bandwidth Containment**

- *NTIA Mask interpretation under review by GSFC Spectrum Allocation Office*
- *Results to be forwarded to Spectrum Astro*
- *Spectrum Allocation Office to form waiver opinion based on results*



# Issues/Problems

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- ▶ ***No sensors on deployable mechanisms***
- ▶ ***Orbit Insertion***
- ▶ ***Cell bypass circuits on I&T battery***
  - *Will take Project direction if removal is desired*
- ▶ ***Flash test of Solar arrays after mechanical environmental test***



# Upcoming Events

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▶ ***Reviews***

- *SC PDR*
- *LAT CDR*
- *MPDR/NAR*



# Rolling Wave Schedule

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▶ *See Mission Chart*