

**Weekly Team Status Meeting Minutes  
General Mission Analysis Tool (GMAT)  
31 October 2013, 2:30–4:30, B23/E230**

**Agenda:**

- General discussion
- Major work areas
- Ongoing work areas
- Around the room

**Attendees:**

<b>Name</b>	<b>Role/Responsibility</b>	<b>Present (✓)</b>
Paul Arnold	SPI Representative	
Steve Cooley	Engineer	
Darrel Conway	System Architect	
Tom Grubb	Developer, Test Lead	
Elaine Gunter	QA	
Steven Hughes	Product Development Lead	
Linda Jun	Developer	
Tuan Nguyen	Developer	
Mark Nicholson	Nav. Engineer	
Joel Parker	Engineer	
Tetyana Royzman	Tester	
Rizwan Qureshi	Engineer	
Wendy Shoan	Developer	

**Major Work Areas:**

- ACE Support: Lead [RQ]
  - Ticket/Issue Discussion in [ACE Ops Cert](#) epic

- [RQ]: ACE Task 9 implemented Test Plans. All (except 1) passed!! 1 RFA was issued. Working with Byron Lee to resolve this RFA
    - [RQ]: Revised PIP slides per SPH/Leigh's input. PIP-II dry run on Monday Nov. 4th. Team G please try to attend!
    - [RQ]: Talked to Rivers about ORR for Nov. 12th. Bad day for them. New ORR date?
  - Decisions & Actions
    - [RQ]: All Test Plans RFAs **must** be addressed before holding ORR
- Project Support: Leads [JJKP, RQ]
  - Milestones/Drivers
    - [JJKP] Mars-GRAM density model in production by Dec. 15.
    - [JJKP] Hand over completed scripts to MAVEN by Dec 15.
    - [JJKP] Preliminary TESS support plan by Nov. 15
    - [TDN] Fixed bug [GMT-4184](#) MGRAM not getting correct density. Code will be committed after I install TortoiseGit.
    - [RQ] JWST SRP Plugin Production quality by Jan. 15
    - [RQ] JWST Attitude file production quality by Jan. 15
    - [RQ] Using GMAT for JWST station keeping by Mar 2014.
  - Ticket/Issue Discussion in [Project Support](#) epic
    - [JJKP] Looked into Mars-GRAM. Still working on some latitude-input issues, but Tuan should go ahead and commit his fix.
    - [JJKP] Need to stop in and talk to Chad about TESS sometime... tomorrow? Monday?
  - Decisions & Actions
    -
- Navigation Revitalization: Lead DSC
  - Milestones/Drivers
    - [DSC] DSN Range Specs/Tests complete Jan 30
    - [DSC] DSN Doppler Specs/Tests complete Jan 30
    - [MJN] USN Range Specs/Tests complete Jan 30
    - [MJN] TDRSS Two Way Range Specs/Tests complete Jan 30
    - [MJN] CCSDS TDM writer production quality by May 30
    - [DJC] CCSDS TDM reader production quality by May 30
    - [MJN] Geometric measurement models
    - [MJN] Hardware models
    - [TDN] Add "ResidualMax" parameter to MeasurementModel to filter data observation data record.
      - example: `MeasModel.ResidualMax = 500.0;`
      - Estimator throws away any observation data record having  $\text{abs}(O-C) > 500.0$
  - Ticket/Issue Discussion in [Nav. Revitalization](#) epic

- - Decisions & Actions
- High Value
  - Milestones/Drivers
    -
  - Ticket/Issue Discussion in [High Value](#) epic
    -
  - Other Status & Discussion
    - [WCS] GMT-3852 fixed - in today's build
  - Decisions & Actions
    -
- Management/Process: Lead SPH
  - Summary [SPH]
    -
  - Ticket/Issue Discussion in [Management/Process](#) epic
    -
  - Other Status & Discussion
    - [WCS] Meeting with Paul Arnold Friday afternoon to discuss metrics collection
  - Decisions & Actions
    -

## Ongoing Work Areas:

- Testing
  - Base [DSC, SPH, JJKP, RQ]
    - Work Completed
      - [RQ]: Closed GMT-4066 (No warning issued when Non-monotonic ephem generated). Created separate GMT-4188 (Non-monotonic ephem not generated when fixed step size)
    - Status/Discussion
      -
    - Upcoming
      - [RQ]: Updating EphemerisFile Requirements & adding Code 500 Reqs
    - Decisions/Actions
      -
  - GUI [TGG, TR]

- Work Completed
  - [TR] Run GUI regression tests - there was a problem with T3 machine - ignored 1000 tests and complained about Matlab. So, I created a ticket to update the Matlab version and rerun ignored tests. 89% passed. Most tests needed to be updated with regions and Mission Summary for the Coordinate System "EarthCRF" was slightly different on 7th digit.

FRR\_1 Spacecraft Orbit State - need to investigate validation invalid conversion - if specify SphericalAZFPA or SphericalRADEC, the Exception Error states from Cartesian to Keplerian State.

Another one - if converted invalid SphericalAZFPA to SphericalRADEC and back - there is no error message.

- Fixed Name Mapping for all Ground Track Plot regression tests - everything failed because of NameMapping issue.
- [TR] Run daily Smoke tests.
- [TR] Run System tests.

- Status/Discussion

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- Decisions/Actions

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- Miscellany

- Work Completed

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- Status/Discussion

- [WCS] E230 booked 2:30 - 5:00 each Thursday in 2014 (except holidays)

- Upcoming Deliverables

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- Decisions/Actions

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- Vacations & Leave

- Put your upcoming leave here: [Team Calendar](#)

- KARI-GSFC Projects

- Work Completed

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- Status/Discussion

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- Upcoming Deliverables

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- Decisions

-

**Action Item Review:**

Action items are tracked in [JIRA](#).

Historic action items are stored in the [action item list](#) on Google Docs.

**Other Business:**

None.