

Call notes, 7/14/15

Participants: J. Doyle, J. Moskaitis, W. Komaromi, R. Ferek, N. Laudier, J. Feldmeier, J. Molinari, G. Tripoli, W. Lewis, P. Black, M. Bell, B. Sanabia, W. Miller, S. Williams, G. Stossmeister, J. Cossuth, D. Cecil, L. Harrison, M. Beaubien, B. McNoldy, B. Creasey, other I missed.

Upcoming Events:

- July 15 @ 1930z: Mission science call (mostly forecasting)
- July 16 @ 1930z: Mission science call (mostly forecasting)
- July 17 @ 1930z: Mission science call (forecasting and dry run planning)
- July 20 @ 1930z: Mission science call (forecasting and dry run planning)
- July 21 @ 1930z: Mission science call (forecasting and dry run planning)
- July 22: Real test flight, mock shakedown flight.

Reminders:

- Please send Natalie any edits or comments regarding ops plan
- Please add contact info to EOL web site

Real test flight and mock shakedown flight

- The real test flight is scheduled to occur on July 22nd, flying out of Ellington. The goals of the flight are engineering-related.
- The mock shakedown flight is imagined to occur on July 22nd. The mock shakedown flight will be planned during the mission science dry run, in order to practice the entire flight planning process.

Dry run leading up to mock shakedown flight:

- Mission science dry run activities will occur on July 17, 20, and 21, planning for the mock shakedown flight defined to occur on July 22.
- For efficiency, we will consolidate mission science planning activities into one daily 1930z meeting on the aforementioned days
- Intent is to use a real-time storm for the mock shakedown flight, but we may need to use a historical TC scenario if there are no real-time TCs.

Real test flight:

- Takeoff ~2300z Wednesday July 22
- Go past Corpus Christi and Brownsville to do radiosonde intercomparison near 0000z July 23.
- Circle near Ellington to test reception of beacon sonde signal; exact nature of this part of the pattern needs to be finalized.
- Leave some time to go find precipitation to do some drops in to test sondes in precipitation
- Total flight time around 2 h
- Agreed that a simple pattern with straight flight legs and minimal number of waypoints is preferred option
- Two different plans at the moment, one goes into Mexican FIR, one does not
- Plans will be submitted to NASA after the meeting (Natalie).
- Should we have a plan that goes east along the Northern Gulf coast? P. Black says military exercises in that area could prevent drops, so that might not be a good idea.

- During the test flight, we would like someone off-site (like Monterey) to communicate with Ellington regarding flight modifications while the aircraft is in the air. Ellington would then communicate with the backseat of the WB-57. This process could be used for targeting precipitation during the test flight.
- UDP protocol should give us rapid updates of aircraft position in MTS

TCI field catalog and TCI project page

- Field catalog is place for real-time information: Field campaign status, schedule, reports, observations, model forecasts, etc.
- In the coming days we will start populating the field catalog with reports as part of the dry run exercise. Putting in reports and updating the schedule are the responsibility of the mission science director and/or J. Doyle. Schedule and ops plan can be automatically emailed to the group.
- Weather forecast team will upload a weather brief (i.e. slides with plots) and a weather discussion (text forecast summary)
- TCI project page has operations plan, other documents such as PATs training presentation, slides from prior calls and meetings, data from the June 24 test flight.
- Would be helpful to further clarify roles of TCI field catalog and TCI project page

Other items

- B. Creasey has a new version of PATs that can be downloaded to your local machine, which allows you to save flight waypoints and load into PATs at a future time (not possible with web-based version). If you download PATs, keep in mind that the software will need to be updated periodically as improvements are made.
- Procedure for canceling daily planning meeting needs further discussion