ESPO Team Tag Up Agenda – 06/25/19

Attendees:

ARC**:** QA**, BB, DC, TC,** EC, **(KD),** DJ**,** (EJ)**, BL, (SM), SN, AP, VS**, **AS, KS, DT, MV, BW,** JZ

TDY: JZ (CAMP2Ex)

AL: DJ, EC, QA, EJ

1. Intro (MV)
   * Mike Bicay Brown bag moved to July 18
   * Viewpoint survey- We are encouraged to complete the Federal Employees Viewpoint Survey. They track participation rate, so your response reflects positively on Code S; your responses are confidential.
   * Autopay for travel card – Civil servants, if you have autopay, take note that the auto pay system is experiencing problems and may not pay on time.
   * COOP (Continuity of Operations Planning) – We need to be able to be “up and running” within 12 hrs of a major event (i.e. local earthquake). The only thing here that would be impacted is our servers so we will need a response plan.
   * AQMS Audit (see handout). ESPO’s reputation has made us one of three very visible groups: ESPO, ISS Projects, Space Biology Project. There is an audit this summer, and it is very important for Ames. Read over this document and we will talk about it more next time. Go to
     1. Insideames 🡪 Ames Quality Management System 🡪 Arc QAAR Audit. What to expect: 🡪 Don’t be afraid of a QAAR audit
        1. Know that we have a quality system
        2. See 2019 QAAR Resources on the left menu bar- QAAR Preparation Documents
        3. Carol Carroll is the Ames POC for Quality
        4. We will have a quiz next time on July 9
   * Pride parade is 6/30
   * MV off next week – July 1-5
2. Computers/IT (BB, DC, KD, AP)

• New Calendar – invite individuals and “espo calendar” from your calendar

(not from the ESPO calendar)

• Missing Computer – possibly 3 missing computers? Alex will communicate on this topic.

• Google suite renewals – You can look in NAMS to see when your enrollment will expire.

• Webex accounts / NASA Webex. Drew will procure two more accounts. Also, someone (Susan perhaps) will get 1 NASA Webex account; this will be tied to her badge/PIV.

• Now that travel is starting, be sure to have a mobile backup.

• RSA tokens / travel- Make sure you have RSA soft token to access VPN (see Dan’s past emails on this topic). Test it before you leave.

• Everyone should update Alex’s inventory document

1. Logistics (QA, BW, DT, TC) – Brad, Ayuta, Alex: get reflective vests from Brent.
2. Manpower planning (MV) – PM updates weekly. Send MV update if there is no team meeting (i.e. next week).
3. Share info:
   * Training:
     1. Let MV know of any APPEL course suggestions.
     2. How to write an email – Stop and think about your audience before sending.
   * Tools:
     1. ASP video page. Brad created this page and Susan is updating links to thumbnails; see the airborne science webpage, left menu bar: https://airbornescience.nasa.gov/content/Videos
     2. Videos for CAMP2Ex/FIREX – Go pros should provide some footage. Be sure to get some “ESPO working” moments.
   * Procedures:
     1. Safety finding. There is a finding against ESPO. Write ‘personal use’ on your container of Lysol Wipes, or screen cleaner, etc. Otherwise they want an Materials Safety Data Sheet for those type of items.
     2. **DO NOT** email about unofficial comp time
4. Mission Updates (see Appendix 1)
5. Next meetings:  **7/9, 7/16, 10/8**
6. Demos:
   * MTS - Aaron Duley – 6/25
   * SOFRS and ASP – Vidal/Sommer - June/July
   * Airlifts – Sommer
   * Demo on GoPro – Jhony
   * Conference rules – Susan
   * Lessons Learned from EVS2 missions – Bernie and Dave
   * Preview capabilities - Dan

Aaron Duley gave a demonstration of Mission Tools Suite (MTS). See the link on the airborne science web site (top menu bar) or https://mts.nasa.gov. Compass was the precursor to MTS. MTS includes situational awareness, asset tracking, instrument telemetry, collaboration, document storage, chat. Some highlights:

* The simpler asset tracker: for the public or someone who doesn’t need the MTS bells/whistles
  + Can go from aircraft icon to other parts of the Airborne Science data base, such as 3D renderings of aircraft.
  + Available to public without plugins
* He has avoided pursuing the flight planning aspect because there are several tools in use and preferences are varied.
* For FIREX, he added real time FIRE detects (Brad Pearce, U Wisc)
* On mobile app: different browsers and versions of browsers are different.
* Let Aaron know a few weeks to a month before the dry run – about new project users. As much time as possible when requesting products.

**Words for the week:**

**Farther and further**

*Farther* involves a physical distance. “Florida is farther from New York than Tennessee.” *Further* involves a figurative distance: “We can take our business plan no further.”

Appendix 1

Mission Updates

• **ATom** (Atmospheric Tomography) **(Dave/Erin/Quincy)** - All deployments completed.  Received a no cost extension for one year. STM is in November.

• **ORACLES** (ObseRvations of Aerosols above Clouds and their intEractionS) **(Bernie/Dan/Sommer)** - All deployments completed.  NCE was granted, requesting one year additional time for data analysis and publication. Therefore the closeout review will be late 2020, and another STM will be held May 2020 in Miami. The Co-PI’s are allocating remaining reserves; a combination of interdisciplinary papers, travel for the STM, targeted grant augmentations. They have solicited micro proposals from the team to utilize the extra money.

**• CAMP2Ex** (Cloud, Aerosol, and Monsoon Processes Philippines Experiment) (Jhony/Erin/Brent & Sommer) - Aug-Oct, 2019 (integration June, July).  Integration began the June 17th, with 1-2 instruments arriving a week earlier. Weekly mission teleconferences every Tuesday. Biweekly teleconferences every Monday evening (with the team in the Philippines). The sea shipment from ARC is en route. The Learjet needs FRR and MRR only.  The FACT training delay waiver was granted. Science flight operations run from Aug 25-Oct 5. Jhony is coordinating transportation from the airport for everyone. Everyone should check functionality of the link that was sent out for hotel bookings. Brent is collecting and reviewing the air shipment manifest. Due to Wake Island airfield weekend closure, the schedule leading up to transit has shifted two days earlier. This does not change the ESPO schedule (except for perhaps air shipment support). The integration pace is slow at Wallops; Kelly can take care of it. Therefore Jhony may reduce the Camp2ex support schedule for Wallops.

• **FIREX-AQ** (Fire Influence on Regional to global Environments eXperiment– Air Quality) **(Dave/Bernie/Drew & Quincy)** DC-8 in Boise and Salina, NOAA Twin Otters in Boise, ER-2 flying from AFRC. Integration is underway for the DC-8. Planning is underway for VIP and media events in Boise. 129th CANG Rescue (180 people) from Moffett will be in Boise at the same time as FIREX. The Twin Otters plans to park at the Jackson Jet Center. Instruments are loaded. Due to unexpected delays in the a/c O2 system upgrade, test flights have been delayed to the week of July 15. This includes 3 SARP flights and up to 2 science flights. The ER-2 integration start is delayed from July 8th to July 15th, so that will be a very busy week at Bldg 703. DC-8 transit to Boise is still anticipated for July 22.

• **IMPACTS:** Investigation of Microphysics and Precipitation for Atlantic Coast-Threatening Snowstorms Science: PI.  Lynn McMurdie (University of Washington) **(Vidal/Quincy & Katie/Brent)** Three 6 week campaigns (Jan/Feb 2020-22)to Warner-Robins Georgia AFB (ER-2) and WFF (P-3). Series of ongoing meetings, Vidal on site visit at Hunter AFB.

* Reviews: Investigation Confirmation Review plan for Oct 7.
* Docs: The science team still working on the IIP.
* Funding: Working revised budget.
* Reporting: Met with Jennifer on budget/reserves.
* Aircraft: ER-2 budget increased by 100k.
* Deployment: Warner Robbins will not grant full, early permission for ER2 to deploy there, so there is consideration of alternate sites. They can support IMPACTS in 2020; we must inquire again later for 2021. One thing that is up in the air is the Liquid Oxygen that the ER2 needs. Vidal identified a source but needs to confirm deliveries. The hotel room already blocked for the Residency Inn.
* Travel: Vidal conducted a site survey to Hunter AFB, near Savannah last week.

• **DCOTSS:** Dynamics and Chemistry of the Summer Stratosphere Science. PI: Kenneth Bowman (Texas A&M University) **(Dan/Bernie/Brent & Tony).** Two-week test flight series and 3 x 5+wks (spring, middle summer, late summer) with ER-2 in Salina, Kansas.

* Reviews: The DCOTSS Confirmation Assessment Meeting (CAM) is scheduled for July 12, and the ICR is scheduled for September 17.
* Docs: Efforts continue on the IIP and refinement of the budgets. IIP was sent out to Jennifer at Langley.
* Funding: Currently working a transfer of one PI to a new institution. There is a concerning funds transfer issue with NOAA that involves FY18 funds.
* Reporting: n/a
* Aircraft: n/a
* Deployment: n/a
* Travel: The first, in-person, full Science Team meeting has been planned for late October in Denver; logistics info is on the web site. The hotel reservation is on track to meet the quota for June.

DCOTSS is getting feedback on IIP. Share with other EVS3 teams.

•  **S-MODE:**  Sub-Mesoscale Ocean Dynamics Experiment.  PI:  Tom Farrar (Woods Hole) **(Erin/Sommer/Drew).**Two week pilot (4/20), two 1 month campaigns

(4/21 & 9/21).  NASA KingAir B200, NASA G-V, TOI Twin Otter and a UNOLS vessel (plus ocean surface drifters, wave gliders, sail drones, and floats). Science research area of interest approximately 200 miles off the coast of San Francisco.  Project started June 1, 2019.   Sommer and Erin TDY in Pasadena for meeting with B200 crew

* Reviews: Working with ESSP to solidify dates for the CAM and the CDM.
* Docs: Working documents for the STM agenda and the IIP are up on Google Docs for team collaboration.
* Funding: PRs for six of nine grant packages are in the system. One grant funded (University of Rhode Island). Waiting on paperwork from UCLA and UMass. Columbia U is a new grant – PI still negotiating cost of participation. Contract for Twin Otter and BAERI task are in work.
* Reporting: All communications among the project leadership team will be via email until probably early August when PI returns from research cruise. ESSP meetings have begun (monthly every fourth Monday).
* Aircraft: If MOSES window fab and integration design are completed this summer, then there could be B200 test flights this fall.
* Deployment: There is a possible experiment at WHOI in the Fall to improve DopplerScatt calibration (resolving small scale wave measurements) - currently no ESPO support expected to be req’d.
* Travel: STM at Ames Aug 21-23 in Bldg 3
* DAAC will be JPL PO.DAAC.

S-MODE is different from the other two EVS3 projects, in that they need a letter of commitment from AMES that includes hangar/airfield support in addition to ESPO support.

2020

• **EXPORTS** (the Export Processes in the Ocean from RemoTe Sensing) **(Quincy/Drew)** - Ships have been identified for the 2020 cruise, the R/V Atlantis and R/V Armstrong, both ships are managed by Woods Hole Oceanographic Institution. Mobilization will begin April 14, 2020 and the ships will sail from Woods Hole, MA on April 18. The ships will return May 31, the Atlantis to WHOI and the Armstrong to Galway, Ireland. The next science team meeting will be early October, place is TBD, and there will be a cruise planning meeting at WHOI early November. WHOI announced they will be conducting their Ocean Twilight Zone Project (OTZ) and plans to coordinate with EXPORTS and contribute by conducting some of the same measurements. OTZ will be in the North Atlantic aboard the R/V Sarmiento de Gamboa at the same time as the EXPORTS deployment.

* + Natural Hazard Science Response/Volcano (Bernie)
  + **EPIC** (Earth Science Project Management International **Collaborative**)**-** Moved to next year before or after AGU Workshop **(Vidal/Sommer/Drew)**
  + PM Guide (Erin) - Erin to update.
  + SOFRS (Vidal)- draft call letter out for review. Feedback came back from everyone. The Global Hawk may be removed and the P3 unit wants to increase their rate. Vidal is waiting for Bruce’s approval. SOFIA (the 737 with a telescope, is being added to the Airborne Science Program.