

Meeting Notes: DYNAMO update, 10 December 2010

Attendees:

Sara Metz	EOL/DIR
Jose Meitin	EOL/FPS
Jim Moore	EOL/FPS
Joe VanAndel	EOL/CDS
Greg Stossmeister	EOL/CDS
Chris Burghart	EOL/CDS
Steve Williams	EOL/CDS
Lou Verstraete	EOL/ISF
Jeff Bobka	EOL/RSF
Bob Rilling	EOL/RSF
Wen Chau Lee	EOL/RSF
Scott Ellis	EOL/RSF
Rich Erickson	EOL/RSF
Bryan Gales	EOL/RSF
Jonathon Emmett	EOL/RSF
Al Phinney	EOL/RSF
Paloma Gutierrez	EOL/RSF
Pei Tsai	EOL/RSF
Mike Dixon	EOL/RSF
Mike Strong	EOL/RSF
John Hubbert	EOL/RSF
Chidong Zhang	U Miami
Courtney Schumacher	Texas A&M

1. General updates by Jim Moore
 - a. Fall OFAP recommendations under review at NSF
 - b. Request for deployment on Gan received by Maldives and under review
 - c. Request sent to US Navy for operations on Diego Garcia
 - d. Letter written to Equator Village regarding lodging needs, waiting to hear back
 - e. Taiwan has added a proposal to launch soundings from island of Male
2. Facility Status
 - a. Toga Radar (Zhang):
 - i. Arrangement of installation on Revelle has been frustrating.
 - ii. May be moving forward with an arrangement to prepay and install
 - b. ARM status (Moore):
 - i. No status changes.
 - ii. The instruments are currently deployed in Steamboat. Will organize a site visit.
 - c. SMART-R status (Schumacher):
 - i. No major updates.

- ii. Will send data examples to EOL.
- d. S-PolKa status (Hubbert, Ellis, Dixon):
 - i. Testing scan control.
 - ii. Working on S/Ka-band data merge; ETA mid- to late January
 - iii. Waiting for new S-band antenna feed horn (ETA January) to improve data quality.
 - iv. Ka-band formal project management process in place (Sandra Thurn)
 - v. Schedule has slipped due to vendor delays, but not yet critical; rotary joint ordered, ETA now March
 - vi. Spare magnetron on order, other spares for the radar are here.
- e. ISS status
 - i. No equipment problems
 - ii. Staffing plans are OK
 - iii. Need site surveys to Revele in Taiwan and Diego Garcia
 - iv. DFS work required for installing profiler on Revele and for racks to ship helium
- f. CDS status
 - i. Need joint DYNAMO/CINDY data policy – will send out questionnaire.
 - ii. Requesting supplemental NSF funding for field catalog
 - iii. Need detailed list of Products from PIs
 - iv. Need to sort out bandwidth concerns on Gan during site survey
 - v. X-chat will be available
 - vi. Working on access to MeteoSat 7 data

3. Miscellaneous discussion

- a. Dry run begins early January
- b. Project office awaiting funds but moving ahead
- c. PO will work with facilities on customs – site survey question
- d. Upcoming meetings
 - i. AGU Tues December 14 2010
 - ii. AMS meeting
 - 1. Radar meeting
 - 2. Larger DYNAMO meeting if funding is decided
- e. Site survey
 - i. Late January/early February 2011
 - ii. Customs/Import fees
 - iii. Visa waivers
 - iv. Expendables
 - v. Site leases
 - vi. Communications and bandwidth (testing too)
 - vii. Lodging at Equator Village and alternatives
 - viii. Include Revele (docked in Taiwan in this timeframe)
 - ix. NOAA P-3 issues (if approved)
 - x. Diego Garcia questions
- f. NOAA aircraft on Gan

- i. Waiting approval
- ii. NOAA staff need to go on site survey
- iii. May causing Lodging issue
- g. Student radar workshop
 - i. Week-long, for students participating in DYNAMO
 - ii. Include in Phase II DPO funding request
 - iii. 7-10 students, for all radars going, not just S-POL
 - iv. Summer 2011 timeframe; no access to hardware
- h. The 9th Container
 - i. Is it needed?
 - ii. Strong justification needed for budget
 - 1. List of people who will be there, when, and space needs
- i. Wireless access from SMART-R to S-POL site
 - i. ~\$3K at each end
 - ii. Seems doable
 - iii. Need to pick a frequency that doesn't interfere with SMART-R
- j. Shipping
 - i. S-POL ship by end of May, so tear-down in CO in April.
 - ii. Helium- lots going; can we coordinate with DOE? Or Taiwan?
 - iii.

Action Items (no particular order):

ACTION	WHO	STATUS (pending, done, moot) and DEADLINE
Add Taiwanese ISS system to the request to the Maldivians.	Jim/Sara	PENDING. See draft proposal to the Taiwan Nat'l Science Council for potential text, to add to amendment to MMS request. 1/17/11.
Create lodging list for field phase (names, dates of stay, preferred location?)	Tammy K.	PENDING, and with Tammy K. She has a list for RSF. 3/1/11.
Add French aircraft (Falcon 20) to the request to the Maldivians	Jim/Sara	PENDING. Jim will get Sara contact info and other info. French. 1/13/11.
Figure out the design and installation specifications for the radar Steve Rutledge is working on (the TOGA radar)	Jim	DONE. Scripps has come up w/the design and will have the pedestal welded onboard the Revelle before it departs Taiwan in January 2011.
Email Chris Farrell about the NOAA P-3, in hopes of an update as to its participation	Jim	PENDING. NOAA fleet meeting happened before Xmas; no resolution yet! 2 nd (acceptance) meeting scheduled for January 2011. 2/1/11.
Trip to Steamboat to see the AMF site/setup, in January 2011.	Jim/Sara	PENDING. AMF radars delayed to at least end of Feb. 2011. Jim to decide whether the pilgrimage would still be

Who? When? How long? Travel arrangements? Etc.		useful. 1/17/11.
Courtney send Dixon example data for SMART-R to work on ingesting.	Jim/Sara	DONE.
Courtney and/or her engineer for SMART-R send frequency for wireless communication between SMART-R and S-POL to Dixon.	Jim/Sara	PENDING. 1/17/11.
Include frequency for wireless communication between SMART-R and S-POL sites in frequency request to the Maldivians.	Jim/Sara	PENDING. This wireless frequency is not on current MMS request. 1/24/11.
Check into coordinating on helium shipping with DOE and/or Taiwanese	Sara	PENDING. To be discussed at meeting with Kerry Slaven (UCAR logistics) on 1/12/11.
Face-to-face meeting with Kerry Slaven about all shipping stuff.	Tammy K.	PENDING. Scheduled for 1/12/11. Participants: Slaven, Lujan (UCAR), Moore, Metz, Donovan, Hanson, Verstraete, L., Bobka
Nail down Chidong's last cruise; either in the middle of the Reveille cruise sequence (necessitating 4x a day balloon launches) or at the end (only 2x a day launches). Makes a difference for staffing; will need students if the former.	Jim	DONE. Launches will be handled by ISF w/helpers, 2x per day. Cruise is at the end of the Reveille cruise sequence (January 2012).
Face-to-face meeting with SACON (Alison, Gina, let them decide who else)	Tammy K.	PENDING. Scheduled for 1/14/11. Participants: Taberski, Propes, Smith, Fladung, Metz, Moore, Donovan, Hanson.
CDS send data questionnaire in the early spring	Steve W.	PENDING. 2/15/11.
CDS (?) send special funds proposal for field catalog and data archival (coordinate with KDS)	Steve W./Sara	PENDING. Roll into DPO Phases II through IV? Need decision by 2/1/11.
Include discussion of PI-desired products list on February Operations Planning Meeting agenda	Jim	PENDING. 2/15/11.
Will the DPO be asked to	Jim	DONE. Answer = NO

support Steve Rutledge's TOGA radar?		
Jim/others send Sara any preliminary shipping discussion emails	Jim/Sara	PENDING. Sara has emailed Bobka (RSF) and Lou (ISF) to get any preliminary info from them, prior to Kerry meeting (sched. for 1/12/11). Lou has sent ISF info.
Plan Site Survey (see below)	Jim/Sara/etc.	PENDING. See below.
Plan Operations Meeting (see below)	Jim/Sara	PENDING. See below.
Write Phase II proposal (see below)	Jim/Sara	PENDING. See below.
Next DYNAMO update meeting	Tammy K.	PENDING. Week of January 10. Same cast as last time, plus Eric DeW. by phone/video.
Set up DYNAMO update email alias & check on others' existence.	Sara	DONE. There are 6 lists. DYNAMO (general): dynamo@eol.ucar.edu DYNAMO-gan: dynamo-gan@eol.ucar.edu DYNAMO-aircraft: dynamo-aircraft@eol.ucar.edu DYNAMO-ship: dynamo-ship@eol.ucar.edu DYNAMO-model: dynamo-model@eol.ucar.edu DYNAMO-Updates: dynamo-updates@eol.ucar.edu
E&O activities	Tammy K.	PENDING. Discuss what, when, how to pay for, etc. Set up meeting for Jim, Sara, BB, Ali, Julie. 1/30/11. Need Public Info Office (PIO) contacts for the other involved agencies (NOAA, NASA, DOE, NSF, UCAR, the French (and who even knows), Taiwan Nat'l Science Council, Indian Met Service, MMS...). 2/15/11. Include request in Phase I-IV?
Student travel fellowship	Jim/Scott E.	PENDING. Jim getting applications from students who want to go to the project. Chidong has solicited. Deadline = 1/30/11. Will be evaluated by a small group (Chidong, Ellis, Brown, Schumacher,

		Long and Orr). Deadline = 2/15/11. Notifications sent by 2/21/11.
Radar student workshop prior to field phase	Jim/Scott E.	PENDING. Sara get proposal/SOW/etc. from Scott E. (ETA end of week of 1/10). Figure out who would come, how many, how long, etc. 1/17/11. Figure out budget (Sara). 1/24/11.
List of <u>everyone</u> going to the field	Jim/Sara	PENDING. Need to generate, along with roles, contact info, etc. Will be added to master Excel workbook. 6/1/11.
Make contact about lodging on Gan during project	Sara/Jim/Tammy K.	PENDING. Jim sent email to Equator Village contact on 12/9/10 at 2:51pm. Doesn't seem to be getting a response to email. May need to fax? 1/28/11.
Lodging on Diego Garcia during project	Sara/Jim/Tammy K.	PENDING. Sara has contacted Navy Inn on DG and they appear to have availability. Awaiting clearances and final "who's going" list before making reservations. 1/17/11.
Create master Excel workbook with all action items and other sheets as needed/useful	Sara	PENDING. First draft ready by 1/14/11.

Site survey action item	WHO	STATUS (pending, done, moot) and DEADLINE
Travel arrangements Who's going? Where, exactly, is each person going? When?	Sara/Tammy K.	PENDING. Need USAF responses. ASAP.
	Tammy K.	PENDING. Still double-checking the full list. Jim, Bill Brown, Lou V., Bobka, Ellis from EOL. Will be others paying their own way. ASAP.
	Tammy K.	PENDING. Nominal: Jim: DG, Male, Gan Bill Brown & Lou V: DG only Ellis & Bobka: Male & Gan only ASAP.
	1/28-2/13/11 (ish)	PENDING. Ali Shareef has ok'd the first two weeks of February timeframe for visit and agreed to help. ASAP.
Prepare agenda for survey	Jim	PENDING. Jim has begun list of

		topics. 1/25/11.
Diego Garcia permissions and contacts	Jim/Sara	PENDING. USAF responses needed. 2 nd POC after Urbanski leaves on 1/13/11 = LCDR Ian Hildreth. ASAP.
DoD Electronic Foreign Clearances	Jim/Sara	PENDING. Jim has made contact with DoD person about clearances for DG. ASAP.
Military flight schedules	Sara/Tammy K.	DONE. URL and schedule available.
List of questions specifically for DG	ISF generated, Jim/Sara coordinate	PENDING. Need by 1/21/11.
List of questions specifically for Gan	RSF generated, Jim/Sara coordinate	PENDING. Need by 1/21/11.

February meeting action item	WHO	STATUS (pending, done, moot) and DEADLINE
Determine location (Miami or Boulder)	Jim/Chidong	PENDING. Rooms reserved @ RSMAS. Need list of attendees and origination points and then Sara/Tammy K. will do cost comparison. Need list by 1/21/11. Need decision by 1/28/11.
Dates?	Jim/Chidong	DONE. Week of Feb. 28 – Mar. 4. Tues-Thurs or Wed-Fri. 3 days should be enough.
Who's going?	Jim/Chidong	PENDING. TBD. NSF must make some decisions. Jim, others from EOL (RSF, ISF, CDS, maybe other FPSers?). Need decision by 2/1/11.
Prepare agenda	Jim/Chidong	PENDING. By 2/18/11.
Meeting room, etc. setup	Tammy K.	PENDING. RSMAS large meeting room. POC for admin items = ?? Chidong will have a person. If in Boulder, need room reservations ASAP. By 2/11/11.
Lodging arrangements?	Tammy K.	PENDING. If Miami, Coconut Grove locale for hotels (Jim has suggestions). If Boulder, Residence and Golden Buff are likely options. Need decision by 2/4/11.

Phase II DPO Proposal	WHO	STATUS (pending, done, moot)
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<i>(goal to send by mid-Feb to NSF)</i>		and DEADLINE
SOW	Jim/Sara	PENDING. 1/18/11
Budget	Sara	PENDING. 1/26/11
NCAR B&P approvals	Sara	PENDING. 2/4/11
Steve Nelson communication on SOW and hypothetical budget levels	Jim	PENDING. 1/17/11