

NCAR/EOL
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SUBJECT : Meeting, Thursday, 15 October 2009

PREDICT PLANNING MEETING - October

PARTICIPANTS AND DISTRIBUTION

Name	Affiliation	Name	Affiliation
Baeuerle	NCAR	Bradford	NCAR
Burghart	NCAR	Davis	NCAR
Jenkins	Howard	Jensen	NCAR
Meitín	NCAR	Sharpe	NCAR
Stossmeister	NCAR	Stringer	NCAR
Thompson	NCAR	Twohy	Oregon State
Williams	NCAR		

MEETING SUMMARY AND OVERALL DECISIONS:

Monthly PREDICT Meeting - primarily in preparation for the upcoming Miami coordination meeting between IFEX & PREDICT and to find out about the Howard University educational activities.

ACTION ITEMS:

New:

- AI.3: Arrange for link of PREDICT from EOL front page (Meitín)
- AI.4: Explore possibility of GISMOS install on GV during for PREDICT (Jensen)
- AI.5: Determine date for site survey in January (Jensen)
- AI.6: Determine/prioritize data for field catalog inclusion (Davis et al.)
- AI.7: Follow up with NSF on whether there is additional funding for an E&O outreach for PREDICT (Baeuerle)
- AI.8: Discuss near real time data needs in more detail (Davis et al, Williams)
- AI.9: Follow up with Greg on students for dropsonde operations (Baeuerle)
- AI.10: Follow up with NSF (Nelson, Smull) on additional funding for radiosondes from DP (Jenkins)

Completed:

- AI.1: Create Email Alias for PREDICT (Meitín) – predict@eol.ucar.edu
- AI.2: Create PREDICT website (Meitín) - <http://www.eol.ucar.edu/deployment/field-deployments/field-projects/predict>

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AGENDA ITEM 1: REPORT ON FLIGHT PLANNING MEETING AT RAF WITH NCAR PIs (C. DAVIS / A. HEYMSFIELD)

The PREDICT PIs had a good meeting with RAF staff including pilots. The following discussion topics were covered:

- Dropsonde patterns and procedures;
- Research domain surrounding St Croix, US Virgin Islands; difficulties going west of the island are expected.
- Microphysics profiles at 30K ft;
- ATC permission to change altitudes in remote airspace; ATC discussions will be held in November during the PREDICT meeting in Miami; Lowell Genzlinger, former RAF pilot, will attend the meeting to interface with ATC.
- Desirability of blocking airspace for altitude changes.

AGENDA ITEM 2: DATA NEEDS ON THE G-V

- Various satellite data (to be defined) Global Hawk- shortwave radar, cloud radar to get a sense of whether the G-V can overfly a system;
- NOAA P-3 Lower Fuselage radar sweeps (image file every 15-min) or screen captures (need to be geo-located); arrangements with NOAA will have to be made; note that the P3 and the GV aircraft will not fly at the same time.
- XChat will be available for communications with Ops Center.

AGENDA ITEM 3: HOWARD UNIVERSITY INVOLVEMENT AND PARTICIPATION (G. JENKINS)

Greg is developing a proposal for an enhanced radiosonde network in the Caribbean and West Africa for the months of August and September 2010. The sites are

- Conakry, Guinea (2 soundings/day);
- Dakar, Senegal (2 x day);
- Sal, Cape Verde (2 x day);
- Barbados (3-4 x day) and
- St Croix (4 x day).

In addition there are about ten sites in the Caribbean that launch 2 soundings/day. He is also thinking about ozone sondes for Dakar, Cape Verde and Barbados. He is currently working on additional funding for radiosondes, ozone sondes and some money to support local operator help. Greg will contact NSF about the possibility of getting supplemental radiosondes paid for by the Deployment Pool. Negotiations with existing stations have been initiated. If existing infrastructure is insufficient Greg is looking to deploy temporary sounding site. Greg also has some money from the Navy to obtain GPS water vapor from the West Africa sites and is looking into lightning data from a University of Washington network and broadband radiation.

One of Greg's goals is capacity building in Senegal and Guinea.

Greg has funding from NSF to support the participation of 10 students during GRIP/PREDICT. He would like three of them (plus a supervisor) to participate in the PREDICT briefings. One of his students will work with the NASA DC8. EOL would like to use some of Greg's students as dropsonde operators. A 3 week commitment per operator is needed to reduce the amount of training needed.

Jenkins was asked whether additional releases should be prepared for GTS transmission. NCAR could act as the portal (e.g., Guinea and Virgin Islands) of additional releases

Greg asked primarily for help with the proposal to properly tie into PREDICT and GRIP and is currently collecting as much project information as possible.

AGENDA ITEM 4: ATC COORDINATION

Hank Tracy, Miami ATC Hurricane Coordinator and John Minea, ATC supervisor, have been contacted by RAF (Scotty McClain), and will attend the IFEX/PREDICT meeting at NOAA/HRD. Discussions will include overall flight coordination, how to better define specific areas of flight operations (2000 mile radius), and what foreign airspace clearances are needed. Since the GRIP PIs have similar issues, a coordinated approach is strongly recommended.

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AGENDA ITEM 5: IFEX/GRIP/PREDICT COORDINATION MEETING IN MIAMI

The meeting will take place from 12/13 November 2009 at NOAA/HRD. EOL participation includes Jose Meitin, Jorgen Jensen, Lowell Genzlinger, Greg Stossmeister and Jeff Stith. Day 1 will be all about research interests and needed observations, day 2 will focus on logistics, the operations center, flight planning, EOL field catalog etc. Follow up coordination meetings are planned for either the 64th IHC in Savannah, GA in early March or the AMS tropical conference in Tucson AZ in early May.

AGENDA ITEM 6: SITE SURVEY TO ST. CROIX

RAF prefers the first two weeks in January 2010. The site survey team will consist of a pilot, a project manager, a system administrator, a PI (either Davis or Montgomery) and a FPS person.

AGENDA ITEM 7: OTHER

Gary Wick (NOAA) is the science lead for the dropsonde operations from the Global Hawk. The question came up whether the PREDICT PIs want the dropsonde data from the Global Hawk in the field catalog. This will be addressed once data products are being prioritized.

Jennifer Haase from Purdue inquired with Chris Davis about GISMOS participation during PREDICT. GISMOS is a certified G-V instrument. Jorgen will find out whether there is actually space on the aircraft before Chris will get back with Jennifer. GISMOS is the GPS Multistatic and Occultation Instrument, which measures water vapor distribution in the troposphere and ocean surface roughness.

Chris Davis agreed that an educational component to PREDICT is desirable. Brigitte will follow up with NSF on what could be done/funded.

The next PREDICT meeting will take place after the Miami meeting on 24 November 2009 at 1:30 pm MT.