

NCAR/EOL  
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**SUBJECT : Meeting, Tuesday, 1 December 2009**

**PREDICT PLANNING MEETING - December**

**PARTICIPANTS AND DISTRIBUTION**

Name	Affiliation	Name	Affiliation
Baeuerle	NCAR	Bradford	NCAR
Campos	NCAR	Davis	NCAR
Meitín	NCAR	Salazar	NCAR
Slaten	NCAR	Stossmeister	NCAR
Thompson	NCAR		

**MEETING SUMMARY AND OVERALL DECISIONS:**

Monthly PREDICT Meeting – update on Miami PREDICT/GRIP/IFEX meeting

**ACTION ITEMS:**

*New:*

- AI.16: Website link – go to PREDICT page, not OFAP documentation (Meitín)
- AI.18: arrange for dropsonde data to get into operational forecasting
- AI.19: Create an outline for the Ops Plan (Davis)
- AI.21: EOL to provide needed information to Davis (various)
- AI.22: coordinate xchat servers among agencies (Bradford)

*Previous/In Progress:*

- AI.3: Link PREDICT from EOL front page (Meitín)
- AI.7: Determine/prioritize data for field catalog inclusion (Stossmeister)
- AI.10: Discuss near real time data needs in more detail and make necessary arrangements (e.g., with NOAA) (Meitín, Jensen)
- AI.13: Arrangements with NOAA to obtain P-3 Lower Fuselage radar data (Meitín)
- AI.23: Invite New York ATC folks to follow up meeting in either Savannah or Tucson (Meitín/Hank Tracy Miami FAA)

*Completed:*

- AI.1: Create Email Alias for PREDICT (Meitín) – [predict@eol.ucar.edu](mailto:predict@eol.ucar.edu)
- AI.2: Create PREDICT website (Meitín) - <http://www.eol.ucar.edu/deployment/field-deployments/field-projects/predict>
- AI.4: Determined to be feasible for GISMOS install on GV during for PREDICT, pending funding (Jensen)
- AI.5: Schedule next PREDICT meeting (Baeuerle)
- AI.6: Determine date for site survey in January (Jensen) Week of Jan 4-8:
- AI.8: Provide GRIP and PREDICT documentation to Greg Jenkins to help with network

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proposal tie into these projects (Davis)  
AI.9: Follow up with NSF on whether there is additional funding for an E&O outreach for PREDICT (Baeuerle)  
AI.11: Follow up with Greg on students for dropsonde operations (Baeuerle)  
AI.12: Jenkins to follow up with NSF on additional funding for radiosondes from DP (Jenkins)  
AI.14: Post Miami Meeting Presentations and Summary on PREDICT website (Meitín, Davis)  
AI.15: Schedule meeting with pilots at RAF for early January (Baeuerle)  
AI.17: Provide CARCAH contact information (Steve Feuer) to Thompson (Meitín)  
AI.20: Send GV payload layout plan on aircraft to José for posting (Davis, Meitín)

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**AGENDA ITEM 1: UPDATE ON IFEX/GRIP/PREDICT COORDINATION MEETING IN MIAMI (C. DAVIS)**

Chris Davis orally summarized the two-day meeting in Miami. A detailed, written summary of the meeting is available and will be posted on the EOL PREDICT website (AI.14).

**Day 1** of the meeting was spent discussing the science to be accomplished during the three projects – PREDICT, GRIP and IFEX. There are no competing agendas or conflicts for resources; the only problem could be how to decide on a system if there is more than one. All three projects have a genesis component; GRIP and IFEX will also focus on intensification and fully developed storms. PREDICT will only focus on the genesis and tropical depression stages but will not get involved in the study of any tropical storm once it develops.

**Field Catalog:** Day one also included a discussion of the use of a field catalog. According to Stossmeister, the data coordinators of the three projects had a chance to talk to each other. The plan is to get as many products into the catalog as possible. It was determined that real-time LF radar data from the NOAA P3 aircraft are of high priority to help with situational awareness. The University of Wisconsin will provide rapid scan imagery.

**Day 2** was spent primarily on flight tracks, aircraft coordination, staffing and daily planning schedules. Detailed flight tracks are needed at least 24 hours ahead of time, so PREDICT will use predetermined survey patterns that will cover as much ground as possible (spiral, lawn mower, star pattern). Most of the airspace is controlled by Puerto Rico and New York ATC; smaller areas by (Trinidad and Tobago?). More flexibility for aircraft operations is expected east of the Leeward Islands. According to Steve Thompson, once below the commercial air traffic routes (about 28K), the actual flight altitude is not a concern. The main issue is traversing 28K feet and the ATC issues involved, especially going back and continuing the mission above. No porposing/ profiling to the surface is planned; although a low altitude pass may be requested.

Steve Thompson requested another meeting with the pilots to discuss flight patterns and flight altitudes in more detail. It is anticipated that the PIs will pick an initial point (IP) and a basic patterns. Chris looked at some of the NOAA flight patterns for the G4 but is not sold on those. The meeting would have to happen between 11 and 13 January after the site survey (AI.15) Update: Meeting set for 10:15am Monday, 11 January 2010 / RAF Conference Room

**GV Operations:** GV operations will target 1200 UTC mission (arrive on target at sunrise). There should be about 13.5 hours of day light, with an operational window from approx. 5:30 am to 7:30 pm. Take off will happen first thing in the morning; the 13.5 hr window is only important during the operations time that is double crewed.

RAF has stipulated a mission coordinator for the GV, which means EOL also needs to provide a ground coordinator.

It is possible that some flight tracks could be made e.g. before daybreak, provided such flight tracks are to be done "far outside" the convectively active area. (Discussion with RAF pilots 3 Dec.)

**Dropsonde Operations:** Coordination of the dropsonde aircraft will be handled by CARCAH – Chief, Aerial Reconnaissance Coordination, All Hurricanes (contact: Steve Feuer), which is a 3-person team that supports the 53<sup>rd</sup> Weather Reconnaissance Squadron out of Keesler AFB near Biloxi, Mississippi. CARCAH is responsible for coordinating all aerial reconnaissance requirements and relaying them to the flight units.

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Steve Thompson asked for contact information for CARCAH (AI.17).

José pointed out that attention will have to be paid to frequency allocation if there are more than 7 sondes in the air at a time. EOL has to make sure that the GV dropsondes are available for operational forecasting (AI.18).

**Forecasting:** The current plan is to have a daily planning meeting (webconference) around noon and science planning teleconference from the various science locations at 9 am. Forecasting will be done by a) Florida State (NASA), b) Lance Bosart (NSF) and c) Jason Dunion (NOAA). Forecasters will use the same forecasting tools. The various forecasters will take turns and produce the same data packages. Briefings will be done either via *GoToMeeting* or *lluminate*.

**Operations Plan:** Chris will have a draft of the PREDICT Operations Plan by February 2010, which will include flight plans, a timeline of activities and a staffing schedule. Although on the agenda, evacuation plans were not discussed at the meeting and need to be included in the Operations Plan. Two plans are needed – one for repositioning the aircraft only and second, evacuation of the entire staff. Chris needs help from EOL for some of the ops plan chapters, including info on the aircraft and payload. Chris will create an outline of the Ops Plan (AI.19) and send the preliminary GV layout plan to José for posting (AI.20). EOL will be asked to provide input on various chapters (AI.21).

**Communications:** NASA, NOAA and NSF use xchat for communications but those are located on several servers. Bradford will be in charge of coordinating Xchat communications so that the three projects are all on the same server (AI.22). The contact at NOAA is Sean McMillan

**Site Survey:** This is an outstanding action item from the last meeting (AI.6). The survey will take place during the week of January 4-8, 2010: (J. Meitín (FPS), A Schanot, H Boynton (RAF), B Slaten (CDS), C Davis (MMM/NESL). There will be approx. 30 to 35 people working in St Croix during the campaign, with up to 50 people during the double-crewing period. An EOL Systems Admin will participate in the site survey to determine space and bandwidth requirements.

**Follow-up PREDICT Meetings:**

64<sup>th</sup> Interdepartmental Hurricane Conference in Savannah, Georgia during the first week of March

[29th Conference on Hurricanes and Tropical Meteorology, 10–14 May 2010](#), in Tucson, AZ

The Miami FAA Hurricane Coordinator (Hank Tracy) will invite the New York ATC representatives to one of those conferences for a follow-up meeting (AI.23).

**AGENDA ITEM 2: EDUCATION AND OUTREACH**

FPS recently hired Alison Rockwell as the new Education and Outreach coordinator for field campaigns. Since some of her salary depends on special funds from NSF, Brigitte had a short conversation with Brad Smull, who was open to the idea of contributing to this effort but wanted to see more details before making any commitments (completion of AI-9). FPS envisions a similar outreach efforts to what was done for HIPPO Phase 2 (see [hippo.ucar.edu](http://hippo.ucar.edu)), including videos, interviews with PIs, image narrations etc. FPS will also pursue media outreach and invitations to local schools and universities (1 University, 2 High Schools, 3 Junior High Schools and 12 elementary schools on the island). Other possibilities include a public lecture (e.g., at a library) and scientific lectures for

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undergraduate and graduate students.

Brigitte also followed up with Greg Jenkins regarding dropsonde operations support by one or more of Greg's students ([completion of AI-11](#)). Greg identified Jonathan Smith, a Ph.D. student at Howard University, who volunteered to be one of the dropsonde operators for the entire PREDICT time frame. Jonathan is partially covered by NSF funding; NCAR will plan on Jonathan being one of the operators and will pay for his per diem as well as provide a stipend. Other Howard University students expressed interest but will have to be back by 4 August for class work.

**AGENDA ITEM 3: UPDATE ON ACTION ITEMS**

AI.12: Greg contacted Brad Smull about having a sounding station in St. Croix to support PREDICT. The request was for consumables (50 K - soundings, system and gas). Brad informed Greg that the outcome for submitting a proposal to NSF is not considered positive for the following reasons: (1) They were not in cycle with the PREDICT proposals that were submitted; (2) There was a feeling that the large-scale environment is a secondary factor when considering the goals of PREDICT; (3) The timing is very late to submit a proposal to NSF for an August experiment. Greg also spoke with Alex Pszmany in the NSF atmospheric chemistry division and they are now putting together a proposal with focus on tropospheric ozone.

Next Meeting: 13 January 2010, 3 pm in FL1 – 2133.