# Lead Project Scientist

**Storm or Project** Danny   **Experiment name** Ocean Pre-Storm

**Flight ID** 20150821H   **Mission ID** _____ + Fig 4.

## Preflight

_____ 1. Participate in general mission briefing.

_____ 2. Determine specific mission and flight requirements for assigned aircraft.

_____ 3. Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.

_____ 4. Contact HRD members of crew to:
   a. Assure availability for mission.
   b. Review field program safety checklist
   c. Arrange ground transportation schedule when deployed.
   d. Determine equipment status.

_____ 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.

_____ 6. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.

_____ 7. Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.

_____ 8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.

_____ 9. Make sure each HRD flight crew member has a life vest.

_____ 10. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.

## In-Flight

_____ 1. Confirm from AOC flight director that satellite data link is operative (information).

_____ 2. Confirm camera mode of operation.

_____ 3. Confirm data recording rate.

_____ 4. Complete Lead Project Scientist Form.

_____ 5. Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

## Post flight

_____ 1. Debrief scientific crew.

_____ 2. Gather completed forms for mission and turn in to data manager at HRD.

_____ 3. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.

_____ 4. Obtain a copy of the radar DAT tapes. Turn in with completed forms.

_____ 5. Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.

[**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

_____ 6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, *etc.*) remaining aboard the aircraft to MGOC.

_____ 7. Determine next mission status, if any, and brief crews as necessary.

_____ 8. Notify MGOC as to where you can be contacted and arrange for any further coordination required.

_____ 9. Prepare written mission summary using **Mission Summary** form.

# Lead Project Scientist Check List

Storm or Project __Danny__ Experiment name_____

Flight ID __20150821I1__ Mission ID_____

## A. Participants:

| HRD | | AOC | |
|---|---|---|---|
| **Function** | **Participant** | **Function** | **Participant** |
| Lead Project Scientist | Uhlhorn | Flight Director | Sears |
| Radar/Workstation | Uhlhorn | Pilots | |
| Cloud Physics | Uhlhorn | Navigator | Gallagher |
| | | Systems Engineer | |
| | | Data Technician | |
| Dropwindsonde | Uhlhorn | Electronics Technician | |
| AXBT/AXCP | Uhlhorn | Other | |
| Photographer/Observers/Guests | Uhlhorn | | |

## B. Take-off and Landing Times and Locations:

Take-Off: __1400__ UTC  Location: __BGI__

Landing: _____ UTC  Location: _____

Number of Eye Penetrations: _____

## C. Past and Forecast Storm Locations:

| Date/Time | Latitude | Longitude | MSLP | Maximum Wind |
|---|---|---|---|---|
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## D. Mission Briefing:

# Lead Project Scientist Event Log

Date _____ Flight ID_____ LPS _____

| Time | Event | Position | Comments |
|---|---|---|---|
| 160728 | Begin Leg | 60 mi W. | |
| 161741 | Drop ① | 14 3' 48 27' | |
| 161928 | Drop ② | 14 7' 48 20' | |
| 162004 | Drop ③ | 14 9' 48 18' | Center |
| 162037 | Drop ④ | 14 11' 48 17' | |
| 162200 | Drop ⑤ | 14 12' 48 12' | |
| 163407 | End Leg | 60 mi E | 14 12' 47 21' |
| | | | |
| 1651 | Begin leg | 60 mi N | |
| 170228 | Drop ⑥ | 14 25' 48 26' | |
| 170351 | Drop ⑦ | 14 19' 48 26' | |
| 170544 | Drop ⑧ | 14 12' 48 28' | Center |
| 170705 | Drop ⑨ | 14 6' 48 28' | |
| 170915 | Drop ⑩ | 13 58' 48 27' | |
| 172025 | End leg | | |
| | | | |
| 184320 | BT ① | 14 30 53 00 | |
| 185015 | BT ② | 15 01 53 00 | |
| 185724 | BT ③ | 15 32 53 00 | |
| 190358 | BT ④ | 16 00 53 00 | |
| 191019 | BT ⑤ | 16 30 53 00 | |
| 191703 | BT ⑥ | 17 00 53 00 | BAD |
| 192352 | BT ⑦ | 17 30 53 00 | |
| 193717 | BT ⑧ | 17 30 54 00 | |
| 194510 | BT ⑨ | 17 00 54 00 | |
| 195233 | BT ⑩ | 16 29 54 00 | BAD |
| 200017 | BT ⑪ | 15 59 54 00 | |

# Lead Project Scientist Event Log

Date _____ Flight ID_____ LPS _____

| Time | Event | Position | | Comments |
|------|-------|----------|---|----------|
| 200710 | BT 12 | 15 29 | 54 00 | |
| 201435 | BT 13 | 14 59 | 54 00 | |
| 202204 | BT 14 | 14 29 | 54 00 | |
| | | | | |
| 203615 | BT 15 | 14 30 | 55 00 | |
| | BT 16 | | | |
| 205150 | 17 | 15 30 | 55 00 | |
| 205848 | BT 18 | 16 00 | 55 00 | |
| 210553 | BT 19 | 16 30 | 55 00 | |
| 211253 | BT 20 | 17 00 | 55 00 | |
| 211930 | BT 21 | 17 30 | 55 00 | |
| 213339 | BT 22 | 17 30 | 56 00 | |
| 214150 | BT 23 | 16 55 | 56 06 | |
| 214800 | BT 24 | 16 24 | 56 02 | |
| 215339 | BT 25 | 15 58 | 56 00 | |
| 220002 | BT 26 | 15 29 | 56 00 | |
| 220620 | BT 27 | 14 59 | 56 00 | |
| 221247 | BT 28 | 14 30 | 56 00 | |
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# Mission Summary
## Storm name
<u>YYMMDDA#</u> Aircraft 4 _RF

<u>Scientific Crew (4 RF)</u>
Lead Project Scientist _____
Radar Scientist_____
Cloud Physics Scientist_____
Dropwindsonde Scientist_____
Boundary-Layer Scientist_____
Workstation Scientist_____
Observers (affiliation)_____

*Mission Briefing: (include sketch of proposed flight track or page #)*

- Pre-storm ocean AXBTs
- 1 Fig. 4 in Storm

*Mission Synopsis: (include plot of actual flight track)*

*Evaluation: (did the experiment meet the proposed objectives?)*

*Problems:(list all problems)*

*Expendables used in mission:*
GPS sondes : _____
AXBTs :_____

Sonobuoys: _____