

Lead Project Scientist

Storm or Project TS Earl Experiment name DWL/Genesis

Flight ID 20160802 I I Mission ID _____

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 TS Earl Experiment name DWL/Genesis

Flight ID 20160802I1 Mission ID WAOSA Earl

A. Participants:

| HRD | | AOC | |
|-----------------------------------|------------------------------------|------------------------|--------------------------------|
| Function | Participant | Function | Participant |
| Lead Project Scientist | <u>Bucci</u> | Flight Director | <u>Sears</u> |
| Radar/Workstation | <u>Alaka</u> | Pilots | <u>kerns</u> <u>Abitbol</u> |
| | | Navigator | <u>Siegel</u> |
| Cloud Physics | | Systems Engineer | <u>Heystek</u> |
| | | Data Technician | <u>Naehar</u> |
| Dropwindsonde | <u>Sellwood</u> | Electronics Technician | <u>Paul, Peak</u> |
| AXBT/AXCP | | Other | |
| Photographer/Observer s/Guests | <u>Dougherty</u> <u>Delgado</u> | | |

B. Take-off and Landing Times and Locations:

Take-Off: 18:04 UTC Location: MacDill AFB

Landing: _____ UTC Location: _____

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

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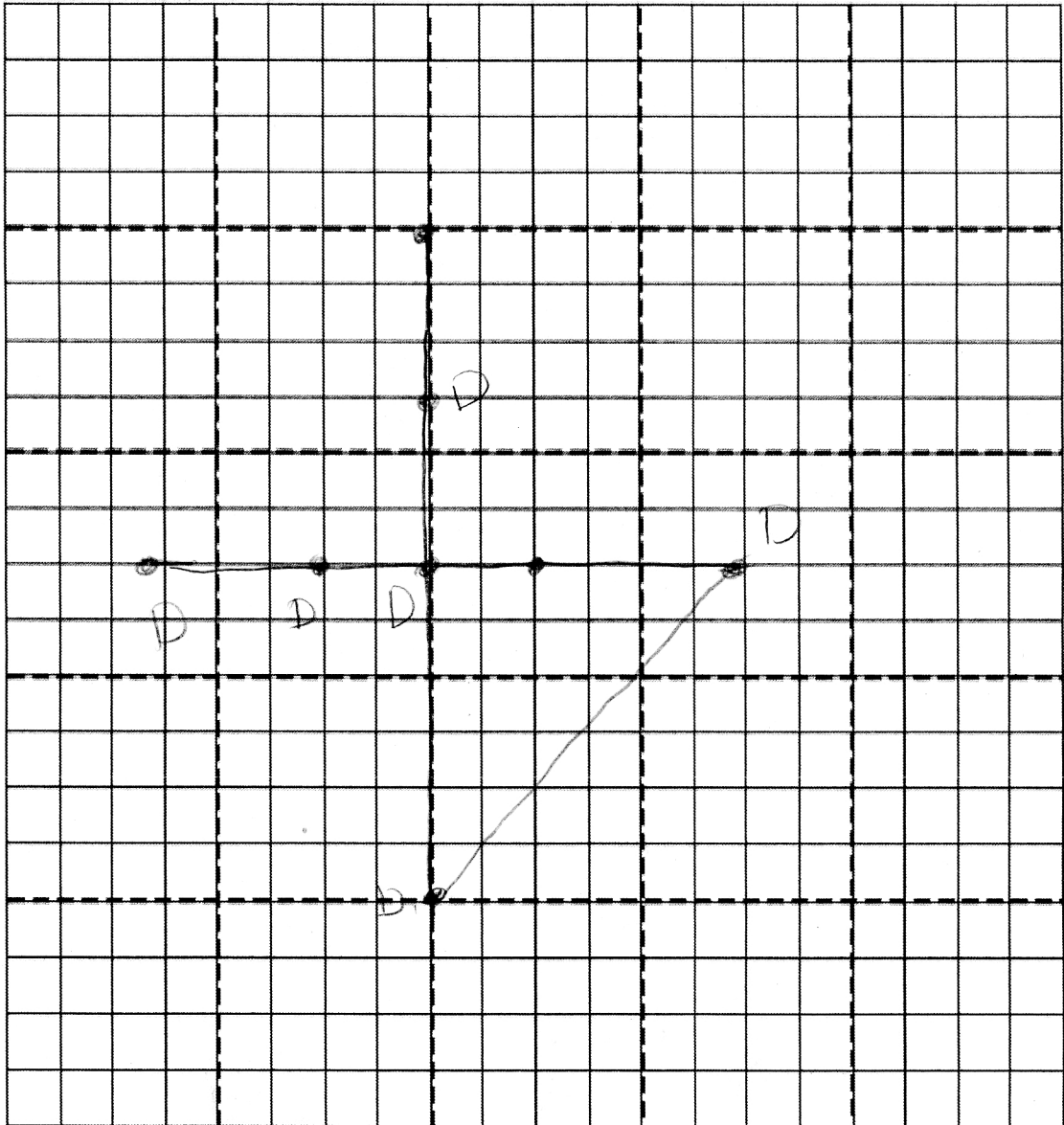
D. Mission Briefing:

TS Earl experiencing ~20 kt NW shear and has a weak and exposed low level center, Tracking west at 20 kts w/ convection displaced to the east.

Observer's Flight Track Worksheet

Date 2016-08-02 Flight 20160802 I4 Observer _____

Latitude (°)



Longitude (°)