

Flight ID 20120826H1 **Lead Project Scientist**
Preflight Storm ISAAC **LPS** JASON DUMON

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.
5. 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.
6. Report status of aircraft, systems, necessary on-board supplies and crews to HFP Director.
7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
7. Make sure each HRD flight crew member has a life vest.
7. 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.
2. Confirm camera mode of operation.
3. Confirm radar recording set-up.
4. Confirm data recording rate.
5. Complete Lead Project Scientist Form.
6. 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 bag separately from other missions. Turn in to data manager at HRD.
5. Copy serial flight data, dropsonde files, and radar data onto thumb drive. Turn in with completed forms.
6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HFP Director.
7. Determine next mission status, if any, and brief crews as necessary.
8. Notify HFP Director 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 Isaac Experiment name TDR
 Date 26 Aug 2012 Aircraft N42 Flight ID 20120826H1
 Mission ID 2309A

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Dunton</u>	Flight Director	<u>Williams</u>
Radar	<u>Reasar</u>	Pilots	<u>Kibbey</u> <u>Halverson</u>
Dropwindsonde	<u>Bucci</u>	Navigator	<u>Brakob</u>
Sea-Air		Systems Engineer	
Photographer/Observer/ Guests (give affiliation)		Data Technician	<u>Lynch</u>
Cloud Physics		Electronics Technician	<u>Paul</u>
		Other ()	

B. Take-off and Landing Times and Locations:

Take-Off: 2005z UTC Location: MacDill

Landing: 0246 UTC Location: JAX

Number of Eye Penetrations: 5

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>1800z</u>	<u>23.9N</u>	<u>81.5W</u>	<u>994</u>	<u>60mph</u>
<u>42 CT</u>				

E. — Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	Number of Expendables
Radar/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Cameras				
Other ()				

D. Mission Briefing:

- TOR: trouble bringing up... online at 2035Z before 1st pt.
- 1st center: data system froze → missed
- radar task settings were incorrect → corrected just before pt 4 (good after that)
 - ↳ pt 4-5 = 1st doppler analysis
- shifted pattern after pt. 9 to make up for missing radar on init. N-S run
 - ↳ pt 9 → 105nm S (pt 10) → cut → FP (pt 11)

Observer's Flight Track Worksheet

Date _____ Flight _____ Observer _____

S = AXBT (Sippican) H mid pt

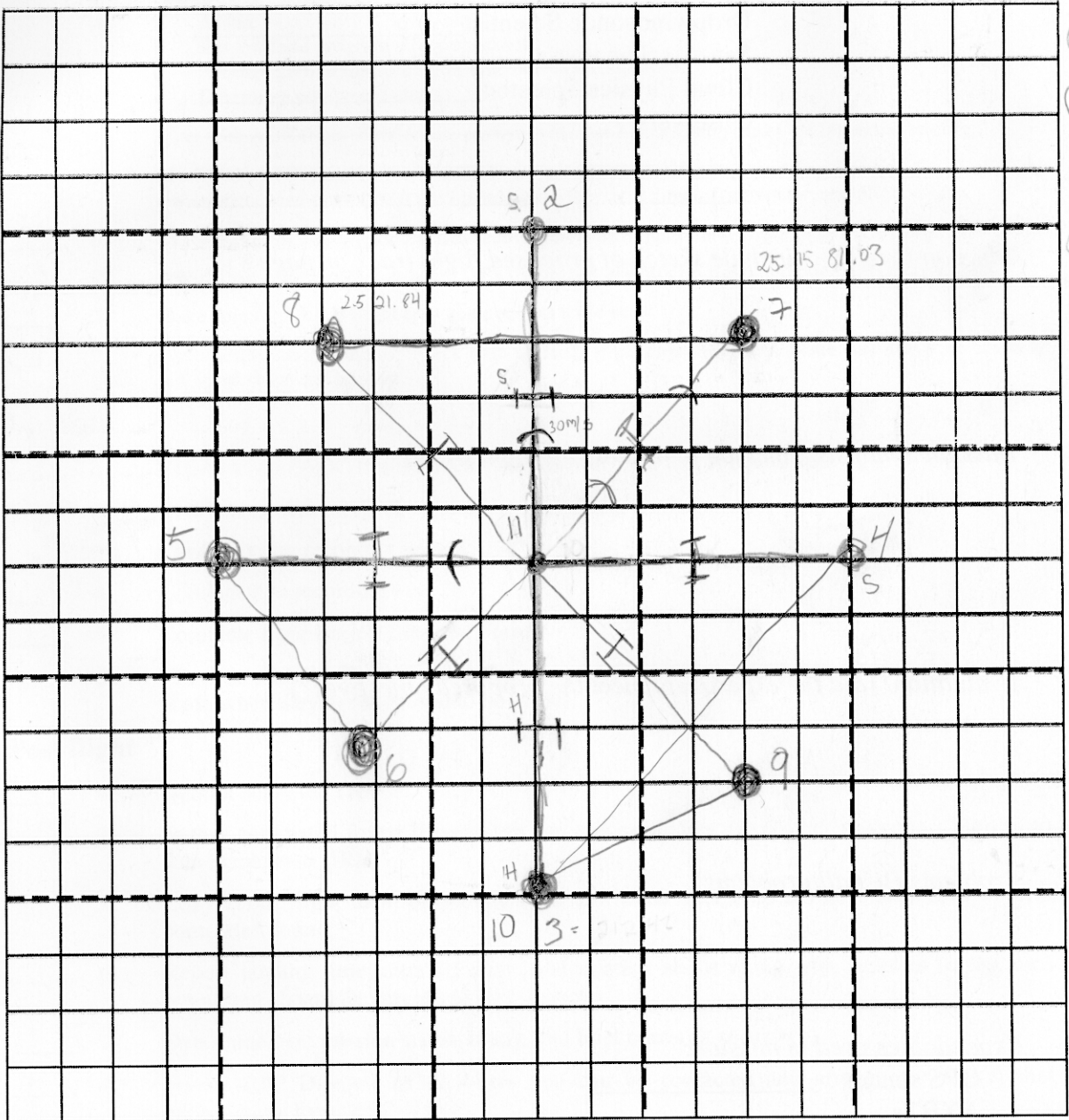
initial ctr: 25.0 82.7W

H = AXBT (HERMES) () RMW

IP → drop 2035Z 26.7 82.7W

AXBTs

Latitude (°)



- ② 28.8C
- ②A 28.8C
- ③ NK
- ②B 28.6C
- ③

1P 2035Z 26.7 82.7

Longitude (°)

7 2335

3 2124Z (Storm = 295/15)

8

4 2148Z

9

20216