

Lead Project Scientist

Flight ID 120823H1 **Storm** Isaac **LPS** JASON DUNION
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.
- 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 8-23-12 Aircraft N42 Flight ID 120923HI
 Mission ID 0609A

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>JASON DUNION</u>	Flight Director	<u>Ian Sears</u>
Radar	<u>Paul Reasor</u>	Pilots	<u>Nelson</u>
Dropwindsonde	<u>LISA BUCCI</u>	Navigator	<u>Sweeney</u>
Sea-Air		Systems Engineer	<u>Bosko</u>
Photographer/Observer/ Guests (give affiliation)		Data Technician	
			<u>Paul</u>
Cloud Physics		Electronics Technician	<u>Quiles</u>
		Other ()	

B. Take-off and Landing Times and Locations:

Take-Off: 0400 UTC Location: BG1
 Landing: 1522 UTC Location: BG1
 Number of Eye Penetrations: 5

C. Past and Forecast Storm Locations:

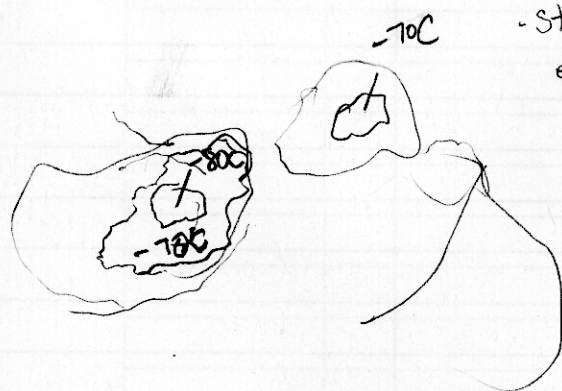
Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>23 Aug 0300Z</u>	<u>15.8N</u>	<u>63.0W</u>		<u>40KT</u>
<u>42 Pt 2</u>	<u>14°45'</u>	<u>64°23' W</u>		<u>0912Z</u>
<u>AF 23 Aug 0751</u>	<u>14°42'</u>	<u>64°6' W</u>		
<u>AF 23 Aug 1000Z</u>	<u>14°58'</u>	<u>64°22' W</u>		

no ctr drop

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	O	O	O	
Ozone instrument				
Cameras				
Other ()				

D. Mission Briefing:



- storm seems to be reforming to the S... NHC slightly adjusting, 42 adjust to AF vortex to the south

Observer's Flight Track Worksheet

Date _____ Flight _____ Observer _____

N-S
down
65W

8 1231
12 43.6' 64° 28.6'

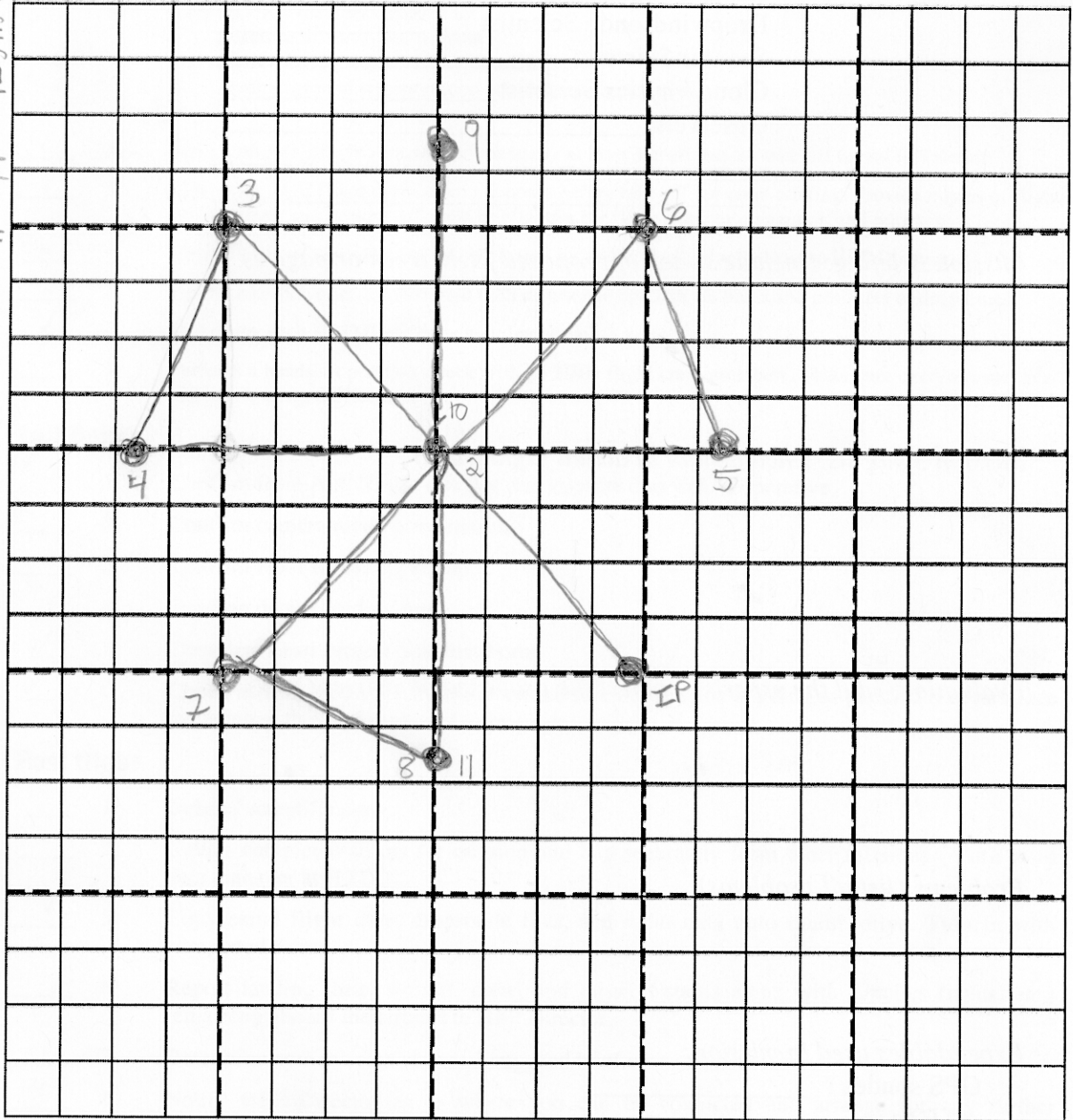
9 1316Z
16° 6.3' 64° 30.5'

10 Broad Ctr
12 34.5' 64° 58.8'

11 FP
1414Z

6: 11:23Z
15 34.62 56.9'

7 1214Z
13 7.3' 65° 27.9'



IP 13' 30.2' 62 48.4'

2 (ctr): 15 36' 64.59.6' → better 14° 45' .64° 23'

3: 15 31.6" 65 1.0' (094DZ)

4: 0958Z 14° 19.4' 65° 25.5'

ctr: no real ctr.

5 cut 20nm
Short
1104Z
14° 20.2' 62° 13.5'

