

Flight ID 20120828#1 Lead Project Scientist Storm Isaac LPS Marks
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 HFP Experiment name HFP/Usac
 Date 8/28/2012 Aircraft 42RF Flight ID 20120828H1
 Mission ID 3009

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Marks/James</u>	Flight Director	<u>Sears</u>
Radar	<u>Sellwood</u>	Pilots	<u>Nelson/Kearns/Sweeney</u>
Dropwindsonde	<u>"</u>	Navigator	<u>Sloan</u>
Sea-Air	<u>UM/RSMAS J. Brewster</u>	Systems Engineer	<u>Heys/K/Darby</u>
Photographer/Observer/ Guests (give affiliation)	<u>R. Schuster</u>	Data Technician	<u>Bosko/Alway</u>
Cloud Physics		Electronics Technician	<u>C. Lynch/Quiles</u>
		Other (

B. Take-off and Landing Times and Locations:

Take-Off: 0746 UTC Location: JAX
 Landing: 1604 UTC Location: JAX
 Number of Eye Penetrations: 5 (IS)

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

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:

TDR pattern
 rotating Fig. 4_N (see pattern) at 8kft
 centering from E, in-storm upper ocean
 sampling with combo-drops plus
 AXBT, CP, CTD's with UM/RSMA S crew
 (see attached sheet of planned drop locations)

Mission Summary

Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Lead Project Scientist Mark

Radar Scientist Schwab

Dropwindsonde Scientist M Black-home

Sea-Air Scientist James/Brewster

Cloud Physics Scientist _____

Observers _____

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

see attached form

Mission Synopsis: (include plot of actual flight track)

see log

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

Great mission (see blog)
Twitter

Problems: (list all problems)

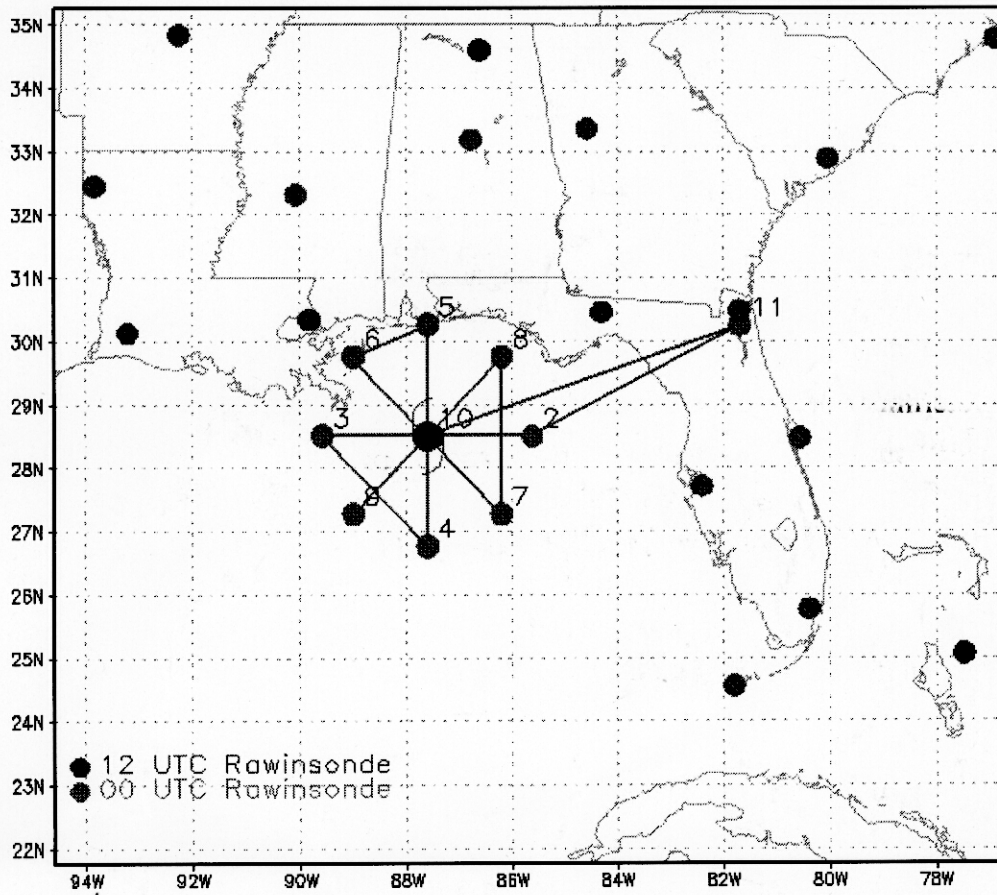
glitches with radar

Expendables used in mission:

GPS sondes: 33

AXBTs: 22

Sonobuoys: _____



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MISSION PLAN: ISAAC

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N42RF Proposed takeoff: 28/0800Z

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TRACK DISTANCE TABLE

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#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	JACKSONVILLE			0.	0.	0:01
1S	28 30	85 37	105/090	231.	231.	1:02
2S	28 30	89 35	105/270	210.	441.	1:57
3S	26 45	87 36	105/180	149.	590.	2:37
4S	30 15	87 36	105/000	210.	800.	3:32
5S	29 44	89 00	105/315	79.	879.	3:53
6S	27 16	86 12	105/135	210.	1089.	4:49
7S	29 44	86 12	105/045	149.	1238.	5:28
8S	27 16	89 00	105/225	210.	1448.	6:23
9S	28 30	87 36	0/000	105.	1553.	6:52
10	JACKSONVILLE			327.	1880.	7:58

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