

Lead Project Scientist

Storm or Project TD05 Experiment name RAPID INTENSIFICATION
Flight ID ~~NXWYA~~ TD05 Mission ID 100811 H2

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 TD05 Experiment name _____

Flight ID WYWXA TD05 Mission ID 10081141

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Uhlhorn</u>	Flight Director	<u>Sears / Damiano</u>
Radar/Workstation	<u>Murillo</u>	Pilots	<u>Nelson / Kibbey</u>
		Navigator	<u>K. dder</u>
Cloud Physics		Systems Engineer	<u>Klippel</u>
Photographer/Observer /Guests		Data Technician	<u>Bosko</u>
Dropwindsonde	<u>Klotz</u>	Electronics Technician	
AXBT/AXCP	<u>Uhlhorn</u>	Other	

B. Take-off and Landing Times and Locations:

Take-Off: _____ UTC Location: _____

Landing: _____ UTC Location: _____

Number of Eye Penetrations: 44

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

Storm or Project _____ Experiment name _____

Flight ID _____ Mission ID _____

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs / Expendables / Printouts
Radar/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation	X			
Cameras				

REMARKS:

X UPS shot - replaced by AOC.

Lead Project Scientist Event Log

Date 11 Aug 2010 Flight ID _____ LPS Uhlhorn

Time	Event	Position	Comments
2008	T/O	KMCF	
2020			Shifted E-W leg North to 29.5N
203102	BT 1 / Drop 1	29.51 83.50	SST 29.5, Begin E→W leg
203912	Drop 2	29.51 84.22	
205354	BT 1 / Drop 3	29.52 85.31	SST 29.6
210137	Drop 4	29.52 86.31	
211245	Drop 5 / BT 3	29.51 87.38	29.8 SST
212445	Drop 6 / turn to 180	29.38 88.35	End E-W, Begin N→S
214128	Drop 7 / BT 4	28.14 88.31	
215257	Drop 8	27.23 88.30	
220435	Drop 9 / BT 5	26.30 88.30	SST 29.8
220840	Turn to 090	26.00 88.29	End N→S, Beg W→E
221056	Drop 10	26.00 88.07	
221958	Drop 11 / BT 6	26.05 87.24	SST 29.9
223024	Drop 12	26.01 86.24	
224055	Drop 13 / BT 7	26.00 85.24	SST 29.2
225235	Drop 14	25.93 84.20	
230120	Drop 15 / BT 8	26.04 83.42	SST 28.9 Turn to 000
231135	Drop 16	26.75 83.29	
2327	BT 9 /		Turn to 270
232955	Drop 18	28.24 83.43	
233810	BT 10	28.20 84.09	
000230	Drop 21 BT 12	28.21 86.40	SST 30.1
0011	BT 13		

TableTop

Mission Summary

Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Lead Project Scientist _____

Radar Scientist _____

Cloud Physics Scientist _____

Dropwindsonde Scientist _____

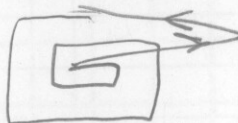
Boundary-Layer Scientist _____

Workstation Scientist _____

Observers _____

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

RAPEX/GENEX/? MISSION INTO TDS. SQUARE SPIRAL
PATTERN:



Mission Synopsis: (include plot of actual flight track)

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

Problems: (list all problems)

- FAULTY WORKSTATION UPS, REPLACED WITH TEMP.
AOC UPS.

- xchat @ C3X didnt work

Expendables used in mission:

GPS sondes : _____

AXBTs : _____

Sonobuoys: _____

Map navigation toolbar including icons for Home, Back, Forward, Print, and other navigation functions. Includes a search bar with the text "Type place or address" and a "Road Map" button.

North America United States Florida



