

Lead Project Scientist

Storm or Project AL92 Experiment name Genesis (Ocean Winds)
Flight ID 10091311 Mission ID WXWXA 92LS

Preflight

- 215808
- 84 1. Participate in general mission briefing.
 - 84 2. Determine specific mission and flight requirements for assigned aircraft.
 - 84 3. Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
 - 84 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.
 - 84 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
 - 84 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.
 - 84 7. Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.
 - 84 8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
 - 84 9. Make sure each HRD flight crew member has a life vest.
 - 84 10. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.

In-Flight

- 84 1. Confirm from AOC flight director that satellite data link is operative (information).
- 84 2. ~~Confirm camera mode of operation.~~
- 84 3. Confirm data recording rate.
- 84 4. Complete Lead Project Scientist Form.
- 84 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

- 84 1. Debrief scientific crew.
- 84 2. Gather completed forms for mission and turn in to data manager at HRD.
- 84 3. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- 84 4. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
- 84 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.]

- 84 6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- 84 7. Determine next mission status, if any, and brief crews as necessary.
- 84 8. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
- 84 9. Prepare written mission summary using **Mission Summary** form.

Lead Project Scientist Check List

Storm or Project AL92 Experiment name Genesis/Ocean Winds
 Flight ID 100913I1 Mission ID WXWXA 92L5

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Shirley Nurillo</u>	Flight Director	<u>A. Barry Damiano</u>
Radar/Workstation	<u>Brad Klotz</u> → <u>Eric Uhlhorn</u>	Pilots	<u>Al Giramonte</u> <u>Kathy Martin</u> <u>Mark Sweeney</u>
Ocean Winds <u>Paul Chang</u>		Navigator	<u>Joe Bishop</u>
Cloud Physics <u>Zorana Jelenak</u>		Systems Engineer	<u>Dewie Floyd, Kent Heys</u>
Photographer/Observer <u>Jason Dvorsky</u>		Data Technician	<u>Dana Naeher</u>
/Guests			
Dropwindsonde ^{operator} <u>Charles Lynch</u>		Electronics Technician	<u>Bobby Peck</u>
AXBT/AXCP		Other	

B. Take-off and Landing Times and Locations:

Take-Off: 215808 UTC Location: STX (St. Croix)
 Landing: 054526 UTC Location: STX (St. Croix)

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>100914 / 0000z</u>	<u>16.5 N</u>	<u>80.6 W</u>	<u> </u>	<u> </u>

D. Mission Briefing:

The plan is to fly PGI444 / AL92. We want to capture pre-genesis. Being that the system is SW of Jamaica we are planning for an ~9 hr flight. We will fly a single figure 8 pattern. The 1st pass into the storm will be @ 12,000 ft (radar) then we will descend to 7,000 ft (radar) for the Ocean Winds portion of the experiment.

Storm or Project AZ92 Experiment name Pre-Genesis/Ocean Winds

Flight ID 100913J1 Mission ID WXWXA 92L5

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	↓	↑	↓	
Cameras	↓	↑	↓	

REMARKS:

Mission Summary

Storm name

YYMMDDA# Aircraft 43RF

100913J1

HRD Scientific Crew (43RF)

Lead Project Scientist Shirley Murillo

Radar Scientist Brad Klotz

Cloud Physics Scientist CCN center - Shirley Murillo

Dropwindsonde Scientist Eric Uhlhorn

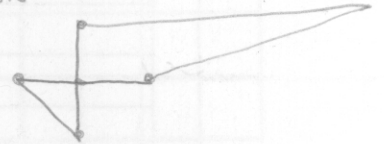
Boundary-Layer Scientist _____

Workstation Scientist Eric Uhlhorn

Observers _____

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

Single figure four pattern into AL92/PGI44L to capture pre-genesis
We will start at 12,000ft (radar) for the first half of
the pattern then descend to 7,000ft (radar) for the Ocean Winds
experiment.



Mission Synopsis: (include plot of actual flight track)

We reached the IP and headed to the south, then to the NW, west and then back
to St. Croix.

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

We sampled AL92 and followed the pattern. There were very little scatters but we
still sent out the radar analyses.

Problems: (list all problems)

Most problems occurred before taking-off. There was an electrical fire at the
avaps station which delayed take-off. The pilots had difficulty getting flight clearance.
Then a Cessna blocked us in so we couldn't move until the aircraft was moved.
Our take-off was delayed about 2 hours.

Expendables used in mission:

GPS sondes: 8

AXBTs: —

Sonobuoys: —