

Lead Project Scientist

Storm or Project AL99 Experiment name genesis/RI
Flight ID 20160825I2 Mission ID _____

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 AL99 Experiment name Gross/RI
 Flight ID 20160825E2 Mission ID _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Cione</u>	Flight Director	<u>Sears/Lilla</u>
Radar/Workstation	<u>Alaka</u>	Pilots	<u>Kerns Abtal</u>
		Navigator	<u>Gallagher</u>
Cloud Physics		Systems Engineer	<u>Lyach</u>
		Data Technician	
Dropwindsonde	<u>Sellwood</u>	Electronics Technician	
AXBT/AXCP	<u>Nguyen</u>	Other	
Photographer/Observer s/Guests			

B. Take-off and Landing Times and Locations:

Take-Off: 1806 UTC Location: MacDill
 Landing: 2340 UTC Location: MacDill
 Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

1940
2351
7547

Storm or Project Alga Experiment name Genesis/RT

Flight ID 20160805I2 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				
Cameras				

REMARKS:

Mission Summary

Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Lead Project Scientist Ciore

Radar Scientist Alake

Cloud Physics Scientist _____

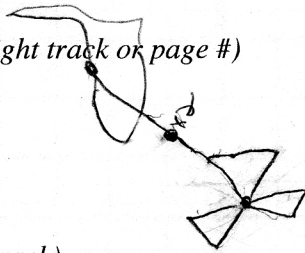
Dropwindsonde Scientist Sellwood

Boundary-Layer Scientist Ciore

Workstation Scientist _____

Observers (affiliation) _____

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



Mission Synopsis: (include plot of actual flight track)

Butterfly pattern. 3h duration flight 7IR/7BT Combo @ end pt + 1 center plus reg drops @ mid pt + 2 alt Also... per NHC request 1 drop @ ~25N 77W (presumably to sample environ out ahead)

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

Problems: (list all problems)

Fuel low on Engine 4... Ended mission 3h premature

IR/BT combo is to see how well new IR Sails compare w/ known "BTS"

Expendables used in mission:

Normal GPS sondes: _____

AXBTs: 7

Sonobuoys: 7

Is Sails