

## Lead Project Scientist

Storm or Project

AL99

Experiment name

genesis/RI

Flight ID

2016082512

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 Grosvet RE  
 Flight ID 2016082512 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>Kenns Abito</u>
		Navigator	<u>Gallagher</u>
Cloud Physics		Systems Engineer	<u>Lynch</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 A199 Experiment name Genesis/RT  
Flight ID 20160805 I2 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

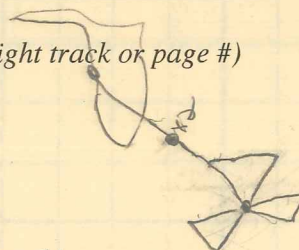
### Storm name

YYMMDDA# Aircraft 4\_RF

### Scientific Crew (4 RF)

Lead Project Scientist C. Ise  
Radar Scientist Alake  
Cloud Physics Scientist \_\_\_\_\_  
Dropwindsonde Scientist Sellwood  
Boundary-Layer Scientist C. Ise  
Workstation Scientist \_\_\_\_\_  
Observers (affiliation) \_\_\_\_\_

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



Mission Synopsis: (include plot of actual flight track)

Butterfly Pattern. ph  
duration flight 7IR/7BT  
Combo 5 end pts + 1 cedar  
Plus reg drops @ mid pt + 2 other  
Also... per NHC request  
1 drop @ ~25W 71N  
(presumably to sample  
environ out ahead)

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

Problems: (list all problems)

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

Expendables used in mission:

Normal GPS sondes : \_\_\_\_\_  
AXBTs : 7

Sonobuoys: 7

Is Sails

IR/BT combo  
is to see how  
well new IR  
Sails compare  
w/ "Known"  
BTs.