

## Lead Project Scientist

Storm or Project AL96 Experiment name GENEX  
Flight ID 100706HI Mission ID WXWXA ALPHA

### 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

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 Flight ID 100706H1 Mission ID WXWXA AL96

**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Perrish, Ian Sears</u>
Radar/Workstation	<u>Gamache Reasor</u>	Pilots	<u>Mark Nelson, Kibby</u>
Cloud Physics	<u>_____</u>	Navigator	<u>Stoan</u>
Photographer/Observer	<u>_____</u>	Systems Engineer	<u>Joe Kippel</u>
/Guests	<u>_____</u>	Data Technician	<u>John Hall</u>
Dropwindsonde	<u>M. Black</u>	Electronics Technician	<u>Mike</u>
AXBT/AXCP	<u>_____</u>	Other	<u>_____</u>

**B. Take-off and Landing Times and Locations:**

Take-Off: 2121 UTC Location: MacDill

Landing: \_\_\_\_\_ UTC Location: \_\_\_\_\_

Number of Eye Penetrations: \_\_\_\_\_

**C. Past and Forecast Storm Locations:**

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

**D. Mission Briefing:** §

### Lead Project Scientist Event Log

Date \_\_\_\_\_ Flight ID \_\_\_\_\_ LPS \_\_\_\_\_

Time	Event	Position	Comments
2105	Engine Horsepower gauge replaced		
2121	Takeoff MacP 21		
2131	Drop #1 - 16kft		Ferry in south/central
2150	Descent to IP		
2154	At IP, 12kft heading west		
220454	Sonde #2 - no winds		
220628	Sonde #3 on <del>the</del> E-W leg		
2217	Sonde #4 E-W		
2225	<del>End of the E leg turn to south</del>		
2246	Turn to south end of E-W leg west		Yucatan
224620	Sonde #7		
2301	Sonde #5		
2317	west of Yucatan - turn to east for coast		
231802	Sonde #6, 9		Turn to N along west coast
232544	Sonde #10		
233440	Turn to east along northern coast		
			no, just a deviation
234640	Turn to east along N coast		
234645	Sonde #1		NW tip Yucatan

0114 turning around to north near conv. line  
 east of Yucatan  
 0118 - LF frozen 0130 - LF + TA frozen