Lead Project Scientist

Storm or Project AL96 **Experiment name** Genesis
Flight ID 100707H1 **Mission ID** WxWxA AL96

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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A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Aberson	Flight Director	Damiano
Radar/Workstation		Pilots	Guimond/Martin/Halverson
	J. Zhang/Sellwood	Navigator	Brakob
Cloud Physics		Flight Engineer Systems Engineer	Bart
Photographer/Observer /Guests	Sellwood/J. Zhang	Data Technician	Paul, Ohey C. Lynch, T. Lynch, Peck
Dropwindsonde		Electronics Technician	
AXBT/AXCP		Other	Williams

B. Take-off and Landing Times and Locations:

Take-Off: 080230 UTC Location: MacDill

Landing: 160010 UTC Location: MacDill

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
10070618	20.6	88.6		25
10070700	21.0	89.9		25
10070706	21.3	90.6		25

D. Mission Briefing: Square spiral around developing AL96 in Gulf. Drops every 1 degree.

TDR

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				
Cameras				

SFMR replaced

REMARKS:

Lead Project Scientist Event Log

Date 100707 **Flight ID** 100707H1 **LPS** Aberson

Time	Event	Position	Comments
080250	Takeoff		
0925	Through eastern band of convection. Into clear air first leg		SFMR > 50 kt
0943	Begin descent to 12K		
0947	End descent. Turn to west		
094715	Drop #1 20 second, to winds		
0952	TA down		
095912	Drop #2		
101109	Drop #3		
102307	Drop #4		
103513	Drop #5 then turn south		
104833	Drop #6		
110146	Drop #7 convective burst to east, late winds, no backup		
1114	Turn to east		
111508	Drop #8		
112809	Drop #9		
1130	Turn around coral reef for Mexican airspace. Weak strong convection S & SE		
114408	Drop #10		
1146	Ended turn to get around coral reef		
115806	Drop #11, Turn to NE		
1216	Turn to north		
121710	Drop #12		
1229	Turn to west		
123016	Drop #13		
124200	Drop #14		
125728	Drop #15		
130745	Drop #16		
1308	Turn to south		

Lead Project Scientist Event Log

Date _____ **Flight ID**_____ **LPS** _____

Time	Event	Position	Comments
1315	Diverting around convection		
1322	Turn to east		
132452	Drop #17		
133801	Drop #18	fairfall	
134011	Drop #18A	Convection	popping everywhere
1344	Divert around coral reef	Large, broad	circulation
1347	Turn toward MacDill		
135210	Drop #19		
1354	Climb and head home		