

Lead Project Scientist

Storm or Project AL92 Genesis Experiment name Genesis
Flight ID 09082611 Mission ID WXWXA AL92

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. *or send in flight track prepared*
- ☒ 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. X
- ☒ 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 ^{SIDITUK} life vest. *didn't do*
- ☒ 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. *Participate in plane side debrief*
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. X
- ☐ 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. X
- ☐ 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	<u>Abersom</u>	Flight Director	<u>Dromoneo/Sears</u>
Radar/Workstation		Pilots	<u>Choy/Encarnate/Mayers</u>
	<u>Leighton</u>	Navigator	<u>Sloan/Gollogher</u>
Cloud Physics	<u>-</u>	Systems Engineer	<u>Reck</u>
Photographer/Observer		Data Technician	<u>Smith/Obney/Duffy</u>
/Guests	<u>-</u>	Electronics Technician	<u>Darby</u>
Dropwindsonde	<u>Zhang</u>	Other	<u>Sapp</u>
AXBT/AXCP	<u>Abersom</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 0807 UTC Location: MacDill

Landing: UTC Location: MacDill

Number of Eye Penetrations: ∞

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing: Originally a zigzag pattern NE/SW. Shifted to N/S to account for mass structure on satellite after eclipse.

Lead Project Scientist Event Log

Date _____ Flight ID _____ LPS _____

Time	Event	Position	Comments
1053	Sonde # 1	SW pt	Date winds, very spotty
1055	Sonde # 1A (2)		backup sonde
1105	Sonde # 3	1/3 on leg	
			Did not get to band, band loss prominent
1118	Sonde # 4	2/3 on leg	the earlier
1120	Turn to NW		
1131	Sonde # 5	SE pt	
1146	TA and LF down	rept	
1154	Sonde # 6 / BT # 1	mid leg	SST ~ 27.8, very shallow mixed layer
1219	Sonde # 7 / BT # 2	after turn	SST ~ 27.8 "
1230	Sonde # 8 / BT # 3	1/3 on leg	SST ~ 28.1 "
~1240	in eastern band,	some turbulence	
1243	Sonde # 9 / BT # 4	2/3 on leg	no SST
1256	Turn to NW		
1257	Sonde # 10 / BT # 5		no SST HAPS went down 0313
1259	Turn 10° right	some turbulence	sent under way
1300	Turn 5° right		
1309	Through most of convection, trying to get back on track		
	Heading hug in LF		
1310	About back on track		
1330	Sonde # 11, BT # 6		SST 27.9
1333	Sonde # 12, BT # 7		SST 28.2
1358	BT # 8		SST 28.2
1416	BT # 9		SST 28.5
1433	BT # 10		SST 28.4
1622	landed		

4th pair radar data not processed due to HAPS reboot

23.8 68.5

24.5 67.0



