Lead Project Scientist

Storm or Project AL92 Genesis **Experiment name** Genesis
Flight ID 090826I1 **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 proposal

✓ 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 ~~life~~ SID ITLIK 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

Participate in planeside debrief

____ 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. 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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Flight ID 090826I1 **Mission ID** WXWXA AL92

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Aberson	Flight Director	Damiano/Sears
Radar/Workstation		Pilots	Choy/Ercumte/Mayers
	Leighton	Navigator	Sloan/Gallagher
Cloud Physics	–	Systems Engineer	Peak
Photographer/Observer /Guests	–	Data Technician	Smith Olney Darby
Dropwindsonde	Zhang	Electronics Technician	Darby
AXBT/AXCP	Aberson	Other	Sapp

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

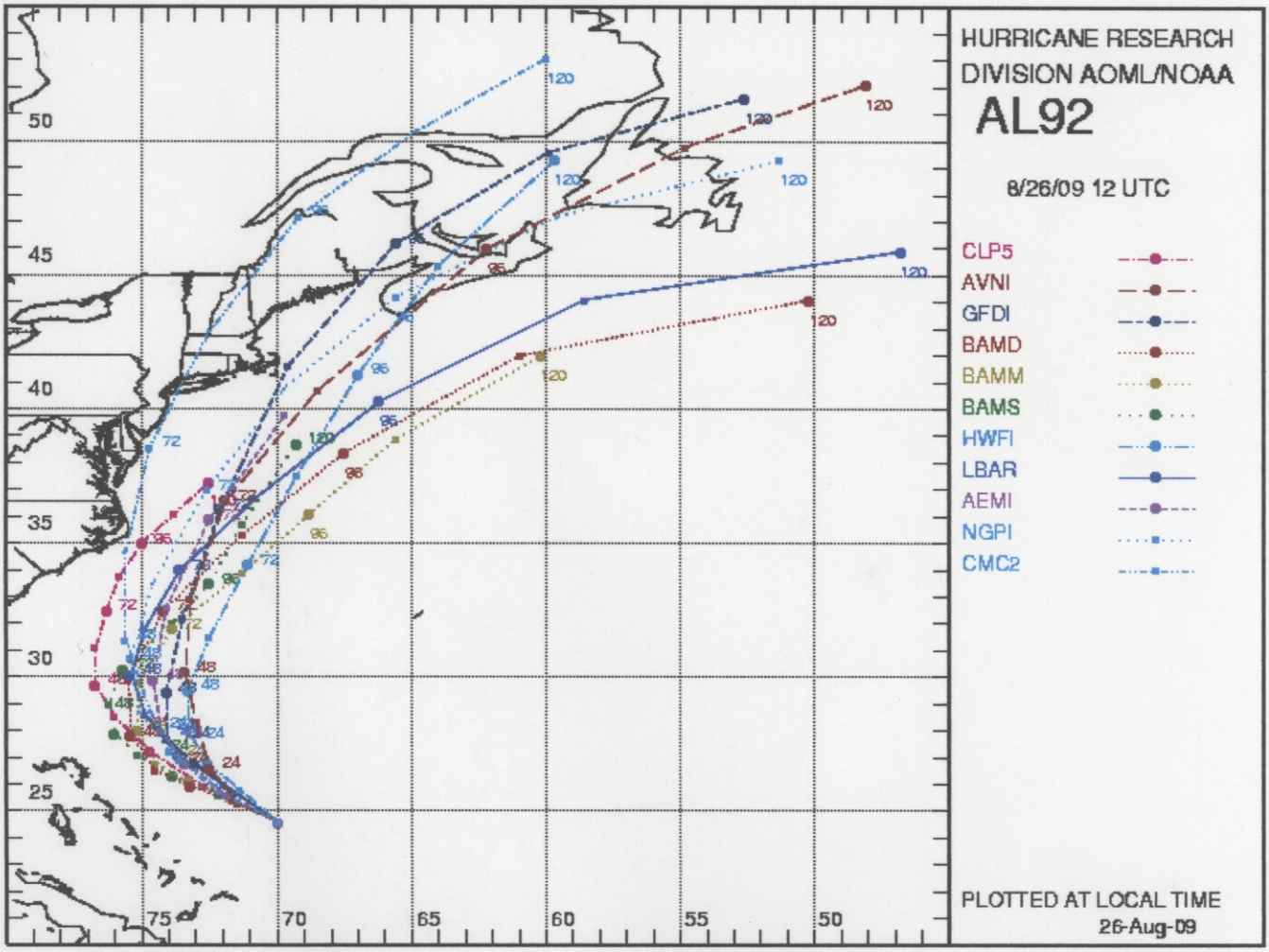
D. Mission Briefing: Originally a zig zag pattern NE/SW. Shifted to N/S to account for mass structure on satellite after eclipse.

Lead Project Scientist Event Log

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

Time	Event	Position	Comments
1053	Sonde #7	SW pt	Date winds, very spotty
1055	Sonde #7A (2)		backup sonde
1105	Sonde #3	1/3 on leg	
			Did not get to band, band less pronounced than earlier
1118	Sonde #4	2/3 on leg	
1120	Turn to NW		
1131	Sonde #5	SE pt	
1146	TA and LF down east		
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 tie-balance	
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 sent under reality
1259	Turn 10° right	some tie balance	
1300	Turn 5° to right		
1309	through most of convection, trying to get back on track		
	Heading big in LF		
1310	About back on track		
1330	sonde #11, BT #6		SST 27.9
1433	Sonde #12, BT #7		SST 28.2
1358	BT #8		SST 28.2
1414	BT #9		SST 28.5
1433	BT #10		SST 28.4
1602	Landed		

4th pair radar data not processed due to HAPS reboot


HURRICANE RESEARCH
DIVISION AOML/NOAA
AL92
8/26/09 12 UTC
CLP5
AVNI
GFDI
BAMD
BAMM
BAMS
HWFI
LBAR
AEMI
NGPI
CMC2
PLOTTED AT LOCAL TIME
26-Aug-09
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45
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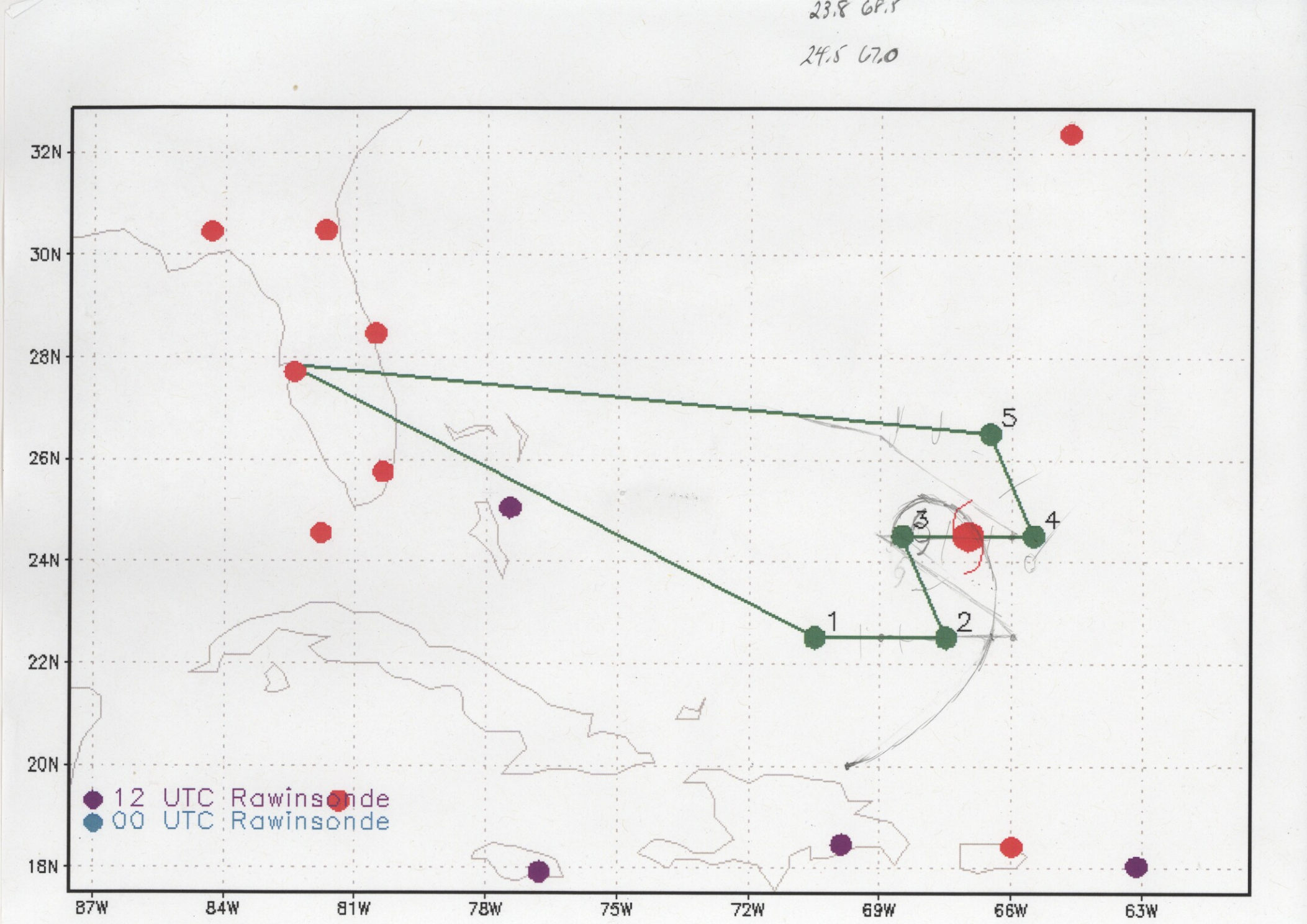
23.8 68.5

24.5 67.0



IrADS: COLA/IGES

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