

## Lead Project Scientist

Storm or Project AL92

Experiment name Genesis / Ocean Winds

Flight ID 100912I1

Mission ID WYWX A 9222

### 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 AL92 Experiment name Genesis/Ocean Winds  
 Flight ID 100912I1 Mission ID \_\_\_\_\_

**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Rogers</u>	Flight Director	<u>Damico</u>
Radar/Workstation		Pilots	<u>Giraudete</u>
	<u>Manillo</u>	Navigator	<u>Bishop</u>
Cloud Physics		Systems Engineer	<u>Naeher</u>
Photographer/Observer /Guests		Data Technician	<u>Ann Sanci</u>
Dropwindsonde	<u>Flotz</u>	Electronics Technician	<u>Peck</u>
AXBT/AXCP		Other	

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

Take-Off: 2004 UTC Location: Maadi  
 Landing: \_\_\_\_\_ UTC Location: St. Croix  
 Number of Eye Penetrations: 1

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

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

**D. Mission Briefing:**

Conduct a genesis mission into AL92. Take-off KATF, fly to system in central Caribbean. Fly a butterfly pattern, 1p on NW side, end up on NE side. leg lengths 90 nm. System shows signs of circulation, possibly in midlevels, with intermittent periods of deep convection. Current has a line of showers or cumuli NE/SW along the NW edge of the circulation center. Fly entire pattern at 10,000 ft. radar. Drop sondes at turn points, and 1/3 points on each leg. Midway through second "penetration" switch to sector mode for ocean winds.

13/12 16.5 76.0  
 14/00 17 28.3

Lead Project Scientist Event Log

Date 100912 Flight ID 100912I1 LPS Eric Uhlhorn

Time	Event	Position	Comments
2309	Descend to 10k'	NW of center	
232210	Drop #1 / IP		
232935	Drop #2		
2333	Conv. Band NE/SW		
233650	Drop #3		
235015	Drop #4	SE of "center"	
235727	Drop #5		
000400	End leg 1	14.79 72.84	turn to NE
000510	Drop #6		
002510		16.16 72.14	turn to W
002558	Drop #7		
003240	Drop #8		
003836	Drop #9		
005100		15.95 73.75	center est.
010615	Drop #10	16.00 74.70	
011147	Drop #11	16.00 75.13	
011530		16.00 75.42	turn to SE
011641	Drop #12	15.92 75.40	
013604	Drop #13	14.73 74.65	
013730	turn to NE		Descend to 8500'
014740	Drop #14	15.14 74.34	turn to NE
015437	Drop #15	15.55 74.10	
020934	Drop #16	16.44 73.57	FAST FALL!
021028	Drop #17	16.50 73.54	
021658	Drop #18	16.88 73.31	
022358	Drop #19	17.30 73.05	
022410			End of leg

0136  
0159

# Observer's Flight Track Worksheet

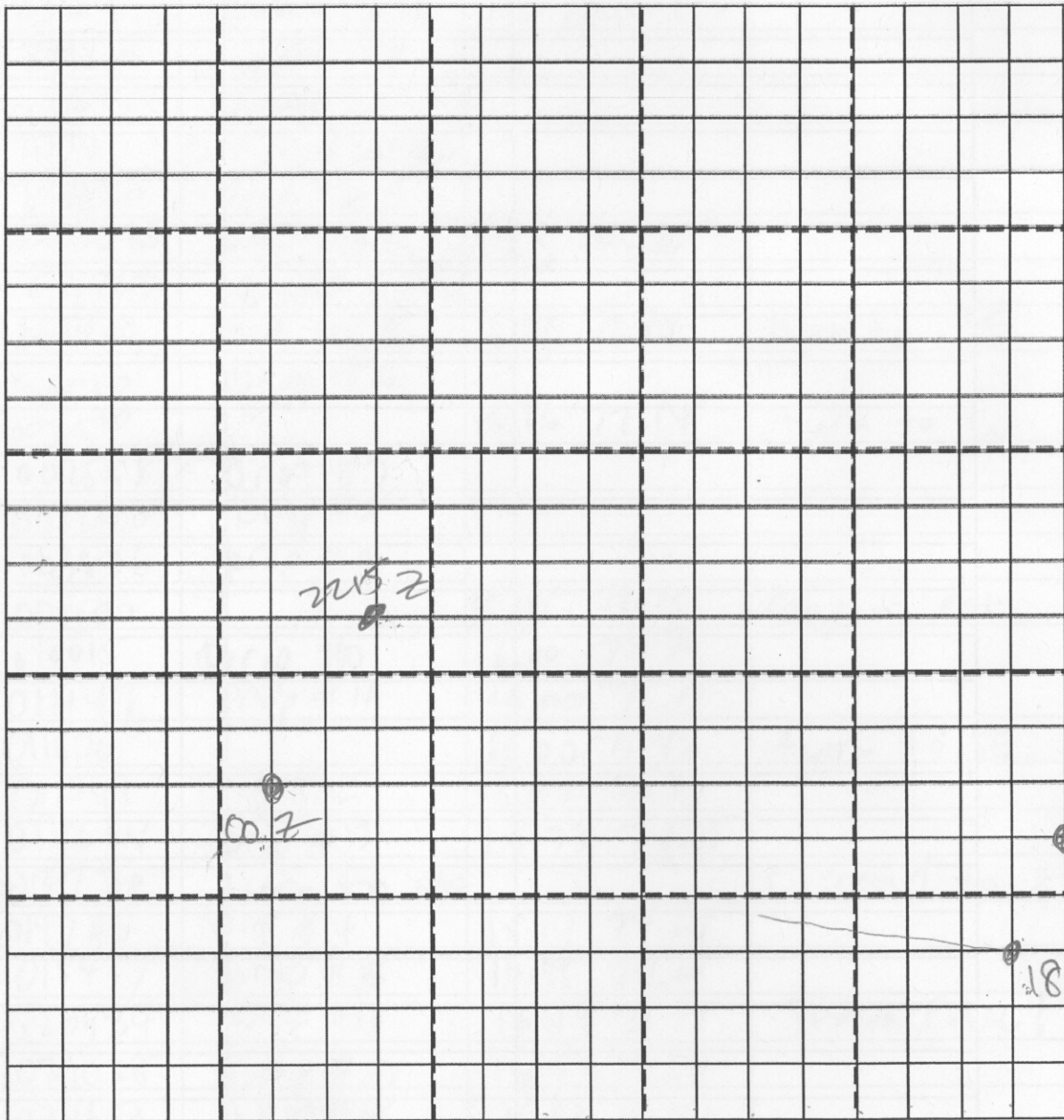
Date \_\_\_\_\_

Flight \_\_\_\_\_

Observer \_\_\_\_\_

17

Latitude (°)  
17  
16.8  
16.6  
16.4  
16.2  
16  
15.8

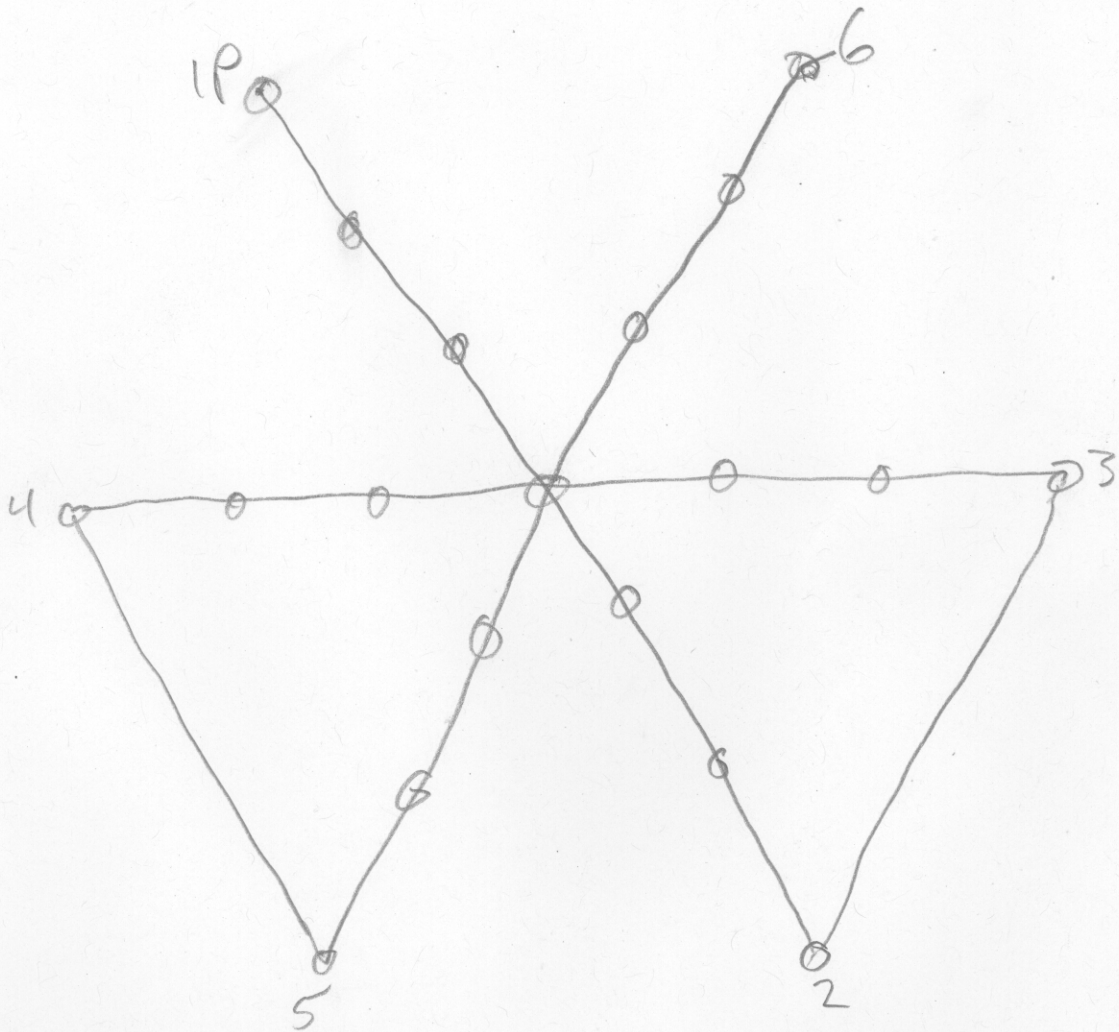


Longitude (°)  
72 74 76 78 80 82 84

2215 16.5 73.3  
1715 16.1 72.0

15.8 72.1 187  
16.2 73.5 007

Proposed Flight track for 100912I



○ - drop points