

## Lead Project Scientist

Storm or Project Arthur Experiment name TDR  
Flight ID 211070311 Mission ID 1301A ARTHUR

### 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.

NOAA 2306

**Lead Project Scientist Check List**

Storm or Project \_\_\_\_\_ Experiment name \_\_\_\_\_

Flight ID \_\_\_\_\_ Mission ID \_\_\_\_\_

**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Halverson</u>	Flight Director	<u>Holmes / Sears</u>
Radar/Workstation	<u>J. Zhang / Patton</u>	Pilots	<u>Halverson, Martin, Didier</u>
		Flight Engr	<u>Heystek</u>
Cloud Physics		Navigator	<u>Sloan</u>
	<u>Sellwood</u>	Systems Engineer	<u>Wernicke</u>
Dropwindsonde		Data Technician	<u>Noeker, Lynch (Terry)</u>
AXBT/AXCP	<u>Narez</u>	Electronics Technician	<u>Lalonde</u>
Photographer/Observer	<u>Nikki Perrini</u>	Other	
s/Guests	<u>Kyle Nolan</u>		

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

Take-Off: 1840 UTC Location: Mac Dill

Landing: \_\_\_\_\_ UTC Location: Mac Dill

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

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

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
<u>03/1700</u>	<u>32 42</u>	<u>78 24</u>	<u>980</u>	<u>63kt / 19kmh</u>
<u>03/1841</u>	<u>33 02</u>	<u>78 12</u>	<u>977</u>	<u>82kt / 14nmh</u>
<u>03/203748</u>	<u>33 21</u>	<u>77 59</u>	<u>977</u>	<u>61kt / 23nmh</u>

**D. Mission Briefing:** Figure 4, circumnav, then figure 4, all of 5a and possible

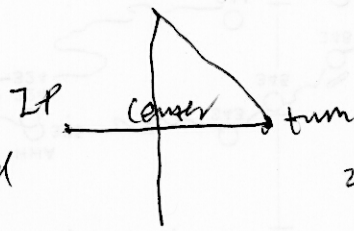




2014070311

(Roulour analysis) -

20:20:35 IP - sonde dropped



26.2 - BT ①

First leg:

(center)

203/98 3321 7759

20:52 - end of turn

20:09:30 - end of the first leg

sonde - 21:13:24 - end of down run

IP of next leg

Center 211800

IP 3328

W 7759

(20:08) Initial IP

20:3217. BT ②

20:38:24 - BT ③

20:44:55 BT ④

20:52 - eyewall E side

21:13 - abate

inbound also

end of first leg ~~outbound~~

213103 - eyewall at onshore end of

2142 - end of turn point

