Lead Project Scientist

Flight ID WxWXA **Storm** paloma **LPS** Uhlhorn

Preflight Paloma 1

____ 1. Participate in general mission briefing.

____ 2. Determine specific mission and flight requirements for assigned aircraft.

____ 3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.

____ 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.

____ 5. 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.

____ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).

____ 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.

____ 7. Make sure each HRD flight crew members have life vests

____ 7. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.

____ 8. Collect "mess" fee ($2.00) from all on-board HRD flight crew members.

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. Report landing time, aircraft, crew, and mission status along with supplies (tapes, *etc.*) remaining aboard the aircraft to MGOC.

____ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

____ 4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.

____ 5. Obtain a copy of the radar DAT tapes. Turn in with completed forms.

____ 6. Obtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms.

____ 7. Obtain a copy of CD with all flight data. Turn in with completed forms.

____ 8. Determine next mission status, if any, and brief crews as necessary.

____ 9. Notify MGOC as to where you can be contacted and arrange for any further coordination required.

____ 10. Prepare written mission summary using **Mission Summary** form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List

Storm or Project Paloma **Experiment name** RAPEX
Date 11/07/08 **Aircraft** N43RF **Flight ID** 081107I

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Uhlhorn	Flight Director	Flaherty
Radar	Dorst	Pilots	Ebhardt Sweeny
Workstation	Murillo	Navigator	Gallagher
Cloud Physics		Systems Engineer	Lynch
Photographer/Observer /Guests		Data Technician	
Dropwindsonde	Murillo	Electronics Technician	
AXBT/AXCP	Uhlhorn	Other	

B. Take-off and Landing Times and Locations:

Take-Off: 0245 UTC Location: KMCF

Landing: KMCF UTC Location: KMCF

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
1920Z	16°13'	81°48'	994	

D. Mission Briefing:

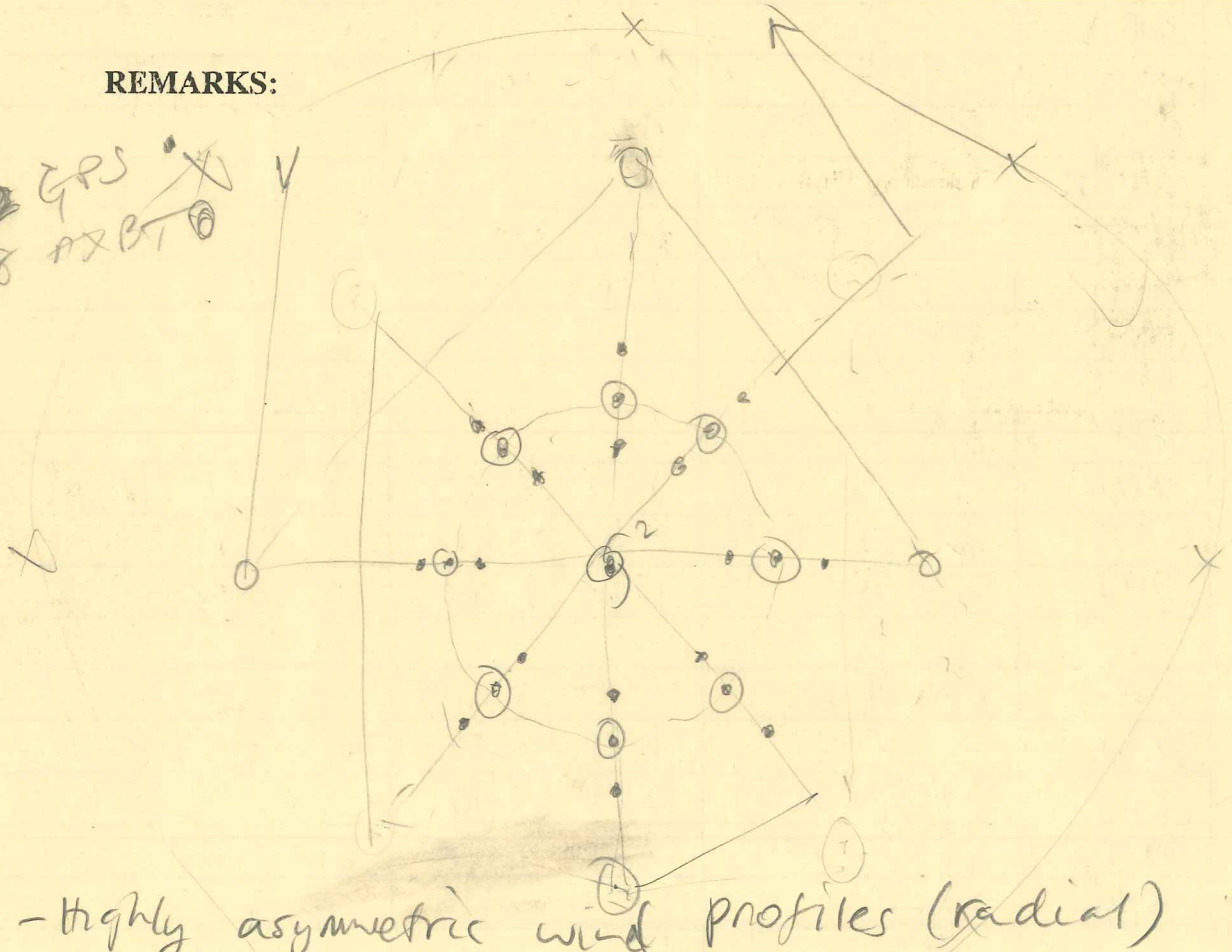
Rapid Intensity Change Experiment (KAPLAND) in H. Paloma. Rotated Fig 4 with 4 penetrations 32 Sondes, 18 AXBTs

E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used **O**)

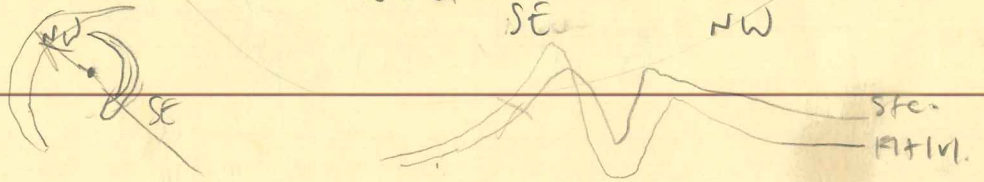
Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Videography				

REMARKS:

32 GPS
18 AXBT



- Highly asymmetric wind profiles (radial) SE→NW
- Radar: - Wind.



Lead Project Scientist Event Log

Date 11/07/2008 **Flight** 081107I **LPS** Uhlhorn

Time	Event	Position	Comments
0245	T/O	KMCF	
0522	Turn to E @ IP	17.15 84.34	
0524	GPS (1) BT (1)	17.14 84.10	@ 14000' 130 mi W of Center
0531	Descent to 12K'	17.13 83.61	
0549	GPS (2)	17.28 82.47	W EW
0550	GPS (3) BT (2)	17.31 82.00	↓
0552	GPS (4)	17.32 81.92	↓
0557	GPS (5) BT (3)	17.43 81.53	E EW
0600	GPS (6)		↓
0613		17.43 80.35	Turn to NW
0614	GPS (7) BT (4)	17.53 80.34	
0637		18.81 81.73	Turn to S
0638	GPS (8) BT (5)	18.75 81.75	
0654	GPS (9) BT (6)	17.62 81.77	N EW
0655	GPS (10)	17.50 81.75	Center
0658	GPS (11) BT (7)		S EW
0714	GPS (12) BT (8)		Turn to NE
0726	GPS (13) BT (9)	16.71 80.87	Turn to NW
0741	GPS (14) BT (10)	17.49 81.61	SE EW
0745	GPS (15)	17.60 81.68	Center
	GPS (16) BT 11		NW EW
0803	GPS (17) BT (12)	18.30 82.66	Turn to S.
0821		16.81 82.59	Turn to NE
0824	GPS (18) BT (13)	16.82 82.48	
0837	GPS (19) BT (14)	17.62 81.76	SW EW
0840	GPS (20)	17.72 81.65	Center
0842	GPS (21) BT (15)	17.88 81.49	NE EW
0852	GPS (22)	18.45 81.00	—Rainband—
0901	GPS (23) BT (16)	18.89 81.19	FP

End legs
Turn to NW
RTB