

Lead Project Scientist

Storm or Project Kaw Experiment name RAPX
Flight ID 2016092377 Mission ID W612A Kaw

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 Event Log

Date 09/03 Flight ID 206092321 LPS Jun Zhang

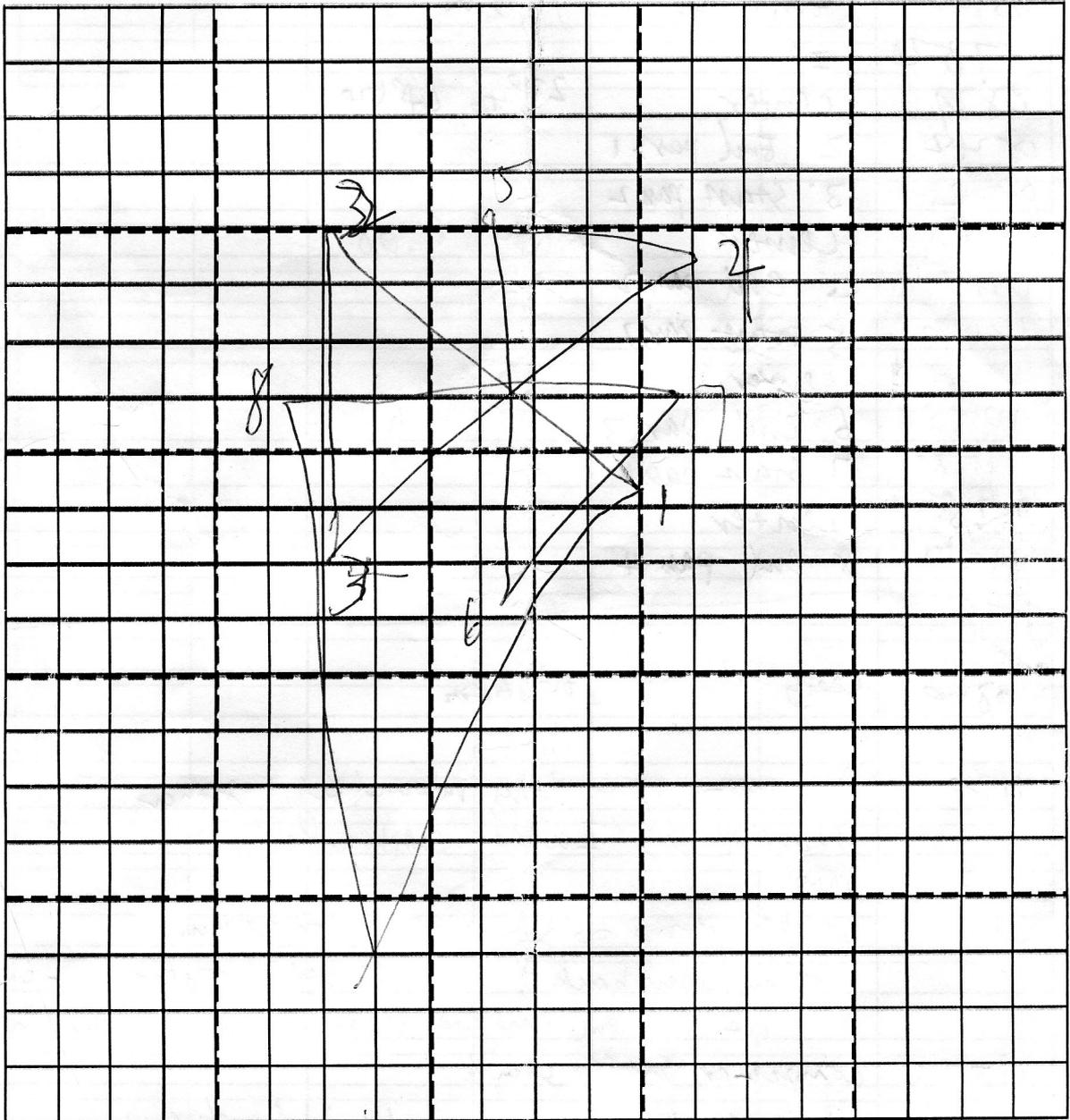
Time	Event	Position	Comments
05:45	take off	5K	
07:54	IP		
08:21	center	27°46, 44°54	
08:42	2. End pass 1		
09:12	3. start pass 2		
09:34	center	27.54 65.08	
09:57	4. End pass 2		
10:16	5. start pass 3		
10:42	center		
10:58	6. End pass 3		
11:18	7. start pass 4		
11:36.7	center		
11:57	8. End pass 4		
<hr/>			
- 08:40	seeing echo top up to 16km		
11:20	GM meets P3 - doing inbound up together HWRAP vs IWRAP calibration		
E-W	pass 5		
11:05	stepped down to 5K altitude for 25 min then come back - purpose say if there is flux at 1.7 km, maybe near the top of the inflow layer		
11:11:3	computer screen stuck ↳ flight director computer also had problem		

no
wedge mode at center

Observer's Flight Track Worksheet

Date 04/23 Flight 20180923 11 Observer _____

Latitude (°)



Longitude (°)

155

Mission Summary

Storm name

YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

Lead Project Scientist Jun Zhang

Radar Scientist Paul Reesor

Cloud Physics Scientist _____

Dropwindsonde Scientist Brittney Dahn

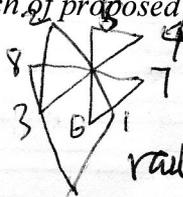
Boundary-Layer Scientist _____

Workstation Scientist _____

Observers (affiliation) _____

Mission Briefing: (include sketch of proposed flight track or page #)

Notated Figure 4

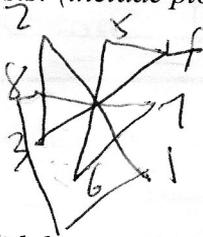


7:45 hr flight $z = 8k ft$

radial pass 95 nm per leg from center

Mission Synopsis: (include plot of actual flight track)

sleepy echo top
up to 10 km



6-7 - stepped descent to 5k ft

Trying to coordinate with G0 to get overp

Jason D. G0 LPS - for Paul C. thinking about

Evaluation: (did the experiment meet the proposed objectives?)

E-W leg, ~10:45

Step descent to 5k in leg 6-7
(20nm) - NOT

G0 and P3 started 1/30 -

RR and PC and JD
worked together
to match
Global H and
P3 at base point

Problems: (list all problems)

Computer screen got stuck for 10 min at 11:11

Expendables used in mission:

GPS sondes: _____

AXBTs: _____

Sonobuoys: _____