

050706I Dennis

Lead Project Scientist

Preflight

- MB 1. Participate in general mission briefing.
- MB 2. Determine specific mission and flight requirements for assigned aircraft.
- MB 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.
- MB 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.
- MB 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- MB 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.
- MB 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).
- MB 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- MB 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 from 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).

W 04A Pennis

Lead Project Scientist Check List

Pennis

Storm or Project IFEX/TOSP Experiment name _____
Date 7/6/05 Aircraft 43 Flight ID 050706I

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Marty Mayhew</u>
Radar	<u>P. Dodge</u>	Pilots	<u>Randy Tebeest</u> <u>Nelson</u>
Workstation	<u>P. Willis</u>	Navigator	<u>Devin Brakes</u>
Cloud Physics		Systems Engineer	<u>Terry Lynch</u>
Photographer/Observer	<u>Robbie Hood</u>	Data Technician	<u>Jim Bean</u>
/Guests	<u>Shirley Mundy</u>	Electronics Technician	<u>Olney</u>
Dropwindsonde	<u>Shirley Mundy</u>	Other	<u>Ro</u>
AXBT/AXCP			

B. Take-off and Landing Times and Locations:

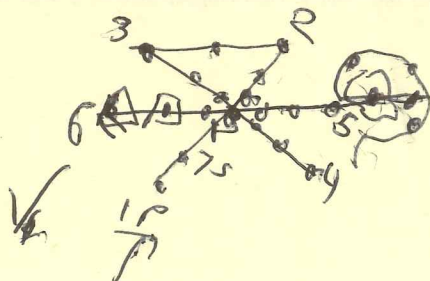
Take-Off: 2150 UTC Location: San Jose, CR (3 hours late)
Landing: 0600 UTC Location: San Jose

Number of Eye Penetrations: 4

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

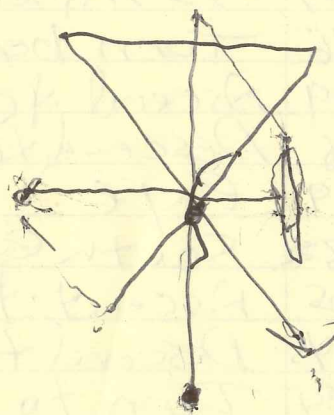
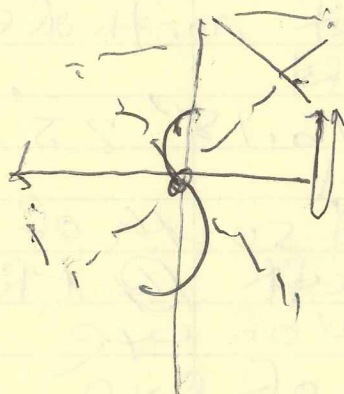


E. — Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

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	—	Yes, fixed		
Videography	✓			

REMARKS:

2 hrs
Gta 0043



AF 1612
2305 7243

984 kts
29 kts NE

Lead Project Scientist Event Log

Date 7/6/05 Flight 050706T LPS M. Black

Time	Event	Position	Comments
0021	Eye 150 miles to NE	1452 74 48	
	Lots of stratiform and banding		
0031	Descend to 14,000 ft	50 miles w of IP	
0040	at IP turn to north		
004136	at IP	1505 73 19	
004549	Ascend to 18,000 ft slowly		
004633	50 miles from eye		
0051	Descend back down to 14,000 ft		
0057	South eye wall inner edge		
010015	Eye		
010200	North eye wall		
011420	AXBT	50 miles north of Ctr	
011637	75 miles north of Ctr		
011716	Turn back to SW		
012309	Ascend to 18 kft north of eye		
012908	Descend to 14 kft		
013809	Eye	16.18' 25' 18' 7785 ft	mb
014032	South eye wall		
014505	Ascend to 19 kft south of eye		
015045	Descend to 14 kft		
015634	Turn to pt SW of eye		
0212	75 miles SW of eye		
0218	AXBT 12 50 miles SW		
0226	South eye wall		
0228-0235	missed center - turned around		
	for marker		

Drop 1

Drop 2

Drop 3

Drop 4

Drop 5

Drop 6

Drop 7

Drop 8

Drop 9

Drop 10

Drop 11

Drop 12

Drop 13

Drop 14

Drop 15

Drop 16

Drop 17

Drop 18

Drop 19

Drop 20

Date 7/6/05 Flight 0507061 LPS M, Black
Penn's

[illegible]