E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

___ 1. Participate in general mission briefing.

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

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

___ 4. Contact HRD members of crew to:

a. Assure availability for mission.
b. Arrange ground transportation schedule when deployed.
c. Determine equipment status.

___ 5. Meet with AOC flight crew at least 90 minutes before takeoff, 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 or FGOC at remote recovery location).

E.2.2 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 Form E-2.

E.2.3 Postflight

___ 1. Debrief scientific crew.

___ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, *etc.*) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).

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

___ 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

___ 7. Prepare written mission summary.

On-Board Lead Project Scientist Check List

Date 02 September **Aircraft** N42RF **Flight ID** 070902h

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Aberson	Flight Director	Shepherd
Cloud Physics		Pilots	Newman
Radar	Aberson	Navigator	Gallagher
Workstation	Rogers	Systems Engineer	MacMillan
Photographer		Data Technician	Hill/Olney
Omegasonde		Electronics Technician	Wade/Olney
AXBT/AXCP		Other	

Take-Off: _____ **Location:** St Croix **Landing:** _____ **Location:** St Croix

B. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
070902 185920	13 29	71 25	957mb	132kt FL C12

C. Mission Briefing:

Doppler radar tasked mission for EMC

D. Equipment Status

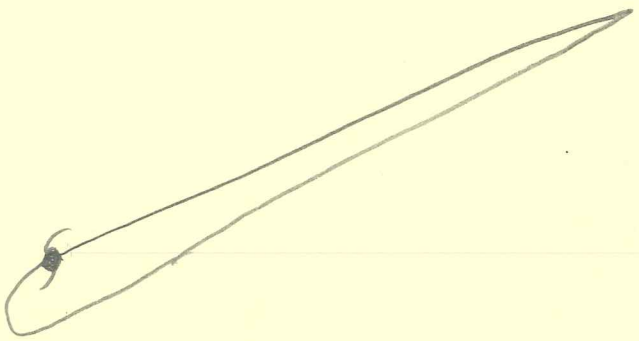
Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	✓		
Radar/LF	✓		
Radar/TA (Doppler)	✓		
Cloud Physics			
Data System	✓		
Omegasondes	✓		
AXBT/AXCP			
Workstation	✓		
Photography			

REMARKS:

E. (I) Proposed Flight Pattern (sketch or designate by number)

See attached

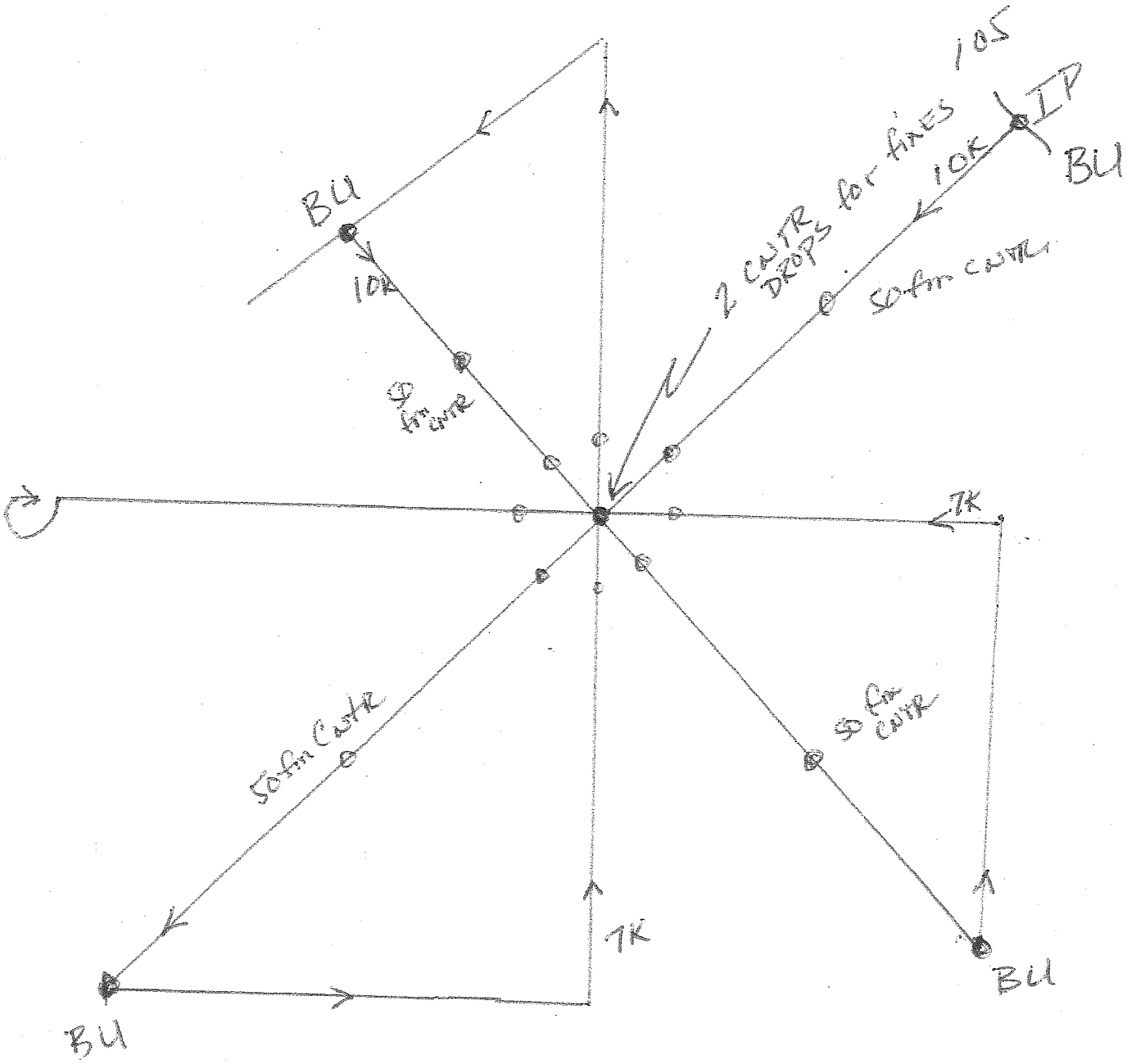
E. (II) Actual Flight Pattern



Lead Project Scientist Event Log

Date 070902 **Flight** 070902h **LPS** Aberson

Time	Event	Position	Comments
19840	T/o	St Croix	Late due to INE1 problem
205930	Turn to 245°	37 nm from IP	1:50 to IP
2120	Start of test radar pattern		
2125	End of test radar pattern		
	Center from radar tape	212007 - 212500	212213 16.59 66.20
222700	IP Start inbound leg	120 nm NE	~35kt @ sfc from SFMR
223146	Sonde # 1		
224152	Sonde # 2 inbound mid point		
		Lightning in eyewall, graupel	
225307	eyewall drop.		4Cs?, heavy turbulence +4, -1 G
2300	noticed radar down. Turning in eye for discussions		
2307	eye drop	13 40 72 43	2307 fix
2308	SW eyewall drop		
Mission aborted		eye subsidence	
		sondes went nearly 180° around	
	Center from radar tape	224310 to 225807	225437 13.66 72.63
	Anderbeck worked!		
013704	Landed	St Croix	


BU
10K
5 for CUTR
2 CUTR DROPS for fines
10K
IP
BU
Soft CUTR
7K
Soft CUTR
5 for CUTR
7K
BU
5 for CUTR
BU

BU = Backup