Flight ID 120826H1 **Storm** Isaac **Radar Scientist** Paul Reason

The on-board radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and checklists are contained in the operator's manual. General supplementary procedures follow. (Check off or initial.)

Preflight

_____ 1. Determine the status of equipment and report results to the lead project scientist (LPS).

_____ 2. Confirm mission and pattern selection from the LPS.

_____ 3. Select the operational mode for radar system(s) after consultation with the LPS.

_____ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

In-Flight

_____ 1. Operate the system(s) as specified in the operator's manual and as directed by the LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.

_____ 2. Maintain the Radar Scientist's form as well as a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

Post flight

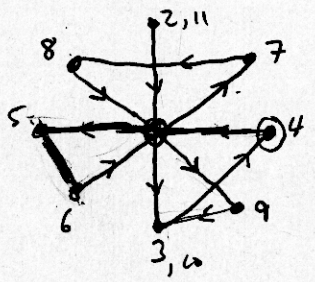
_____ 1. Complete the summary checklists and all other appropriate forms.

_____ 2. Download all radar data files to thumb drive.

_____ 3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.

_____ 4. Debrief at the base of operations.

_____ 5. Determine the status of future missions and notify HFP Director as to where you can be contacted.



HRD Radar Scientist Check List

Flight ID: 17 08 26 H1

Aircraft Number: N42

Radar Operators: Paul Reasor

Radar Technician: Richards, T.

Component Systems Status(Up ↑, Down ↓, Not Available N/A, Not Used O):

Radar Computer ↑

Lower Fuselage antenna _____

Tail Antenna _____

Time correction between radar time and digital time: _____

Radar Post flight Summary

Significant down time:

Radar LF _____

Radar TA _____

Other Problems:

HRD Radar Event Log

Flight ID 120826H1 **Aircraft** N42 **Sheet** ____ **of** ____
Radar Scientists Paul Reasor ____________________

LF RPM ______________ TA RPM ______________

(Include start and end times of recording as well as times of F/AST legs and any changes of radar equipment status)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
			Take off 2012 UTC

HRD Radar Problem Log

Flight ID 120826H1 **Aircraft** N42 Sheet ____ of ____
Radar Scientist Paul Reasor **Radar Technician** Richards, T.

(Include times of when recording ended and was restarted)

Tape #	Time (HHMMSS)	Problem
		Desired task could not
		be set up in time for 1st
		pass – radar may have been
		brought up/down a few times
		(use data from 1st pass w/
		caution)
		Had to reset RCV during
		2nd pass

UW = upwind

Doppler Wind parameters

Doppler flight-leg notes (for use in automatic QC and analysis)

FLIGHT ID: 120826H1 **Scientist:** Paul Reasor

	Leg Start Time	Leg End Time	Storm Motion		Center Fix			Max Radius (km)	Horz. Res (km)	Inbound	Outbound	ja?	Angle check?	Sent?
					Time	Latitude	Longitude							
	HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	49/98/147/196	1/2/3/4	track	track	H/TS	(Y/N)	(Y/N)
N→S								245km	5km					
DW								↓	↓					N
E→W	2148	2242	295	15	2218	2357	82 17			270	270			
DW	2244	2258												Y
SW→NE	2259	2335	300	10	2310	2400	82 26			45	45			
DW	2336	2408												Y
NW→SE	2410	2446	300	10	2434	2408	82 37			135	135			
UW	2447	2455												Y
S→N	2455	2532	300	10	2505	2406	82 48			0	0			

Radar task prob. May not want to use

Note: Use every other line to indicate start and end time of downwind leg