

Radar Scientist

Flight ID 20121028 41 Storm SANDY Radar Scientist Bucci

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: 20121028H1

Aircraft Number: 42

Radar Operators: Charles Lynch

Radar Technician: _____

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:

Doppler Wind parameters

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

FLIGHT ID: 20121028H1

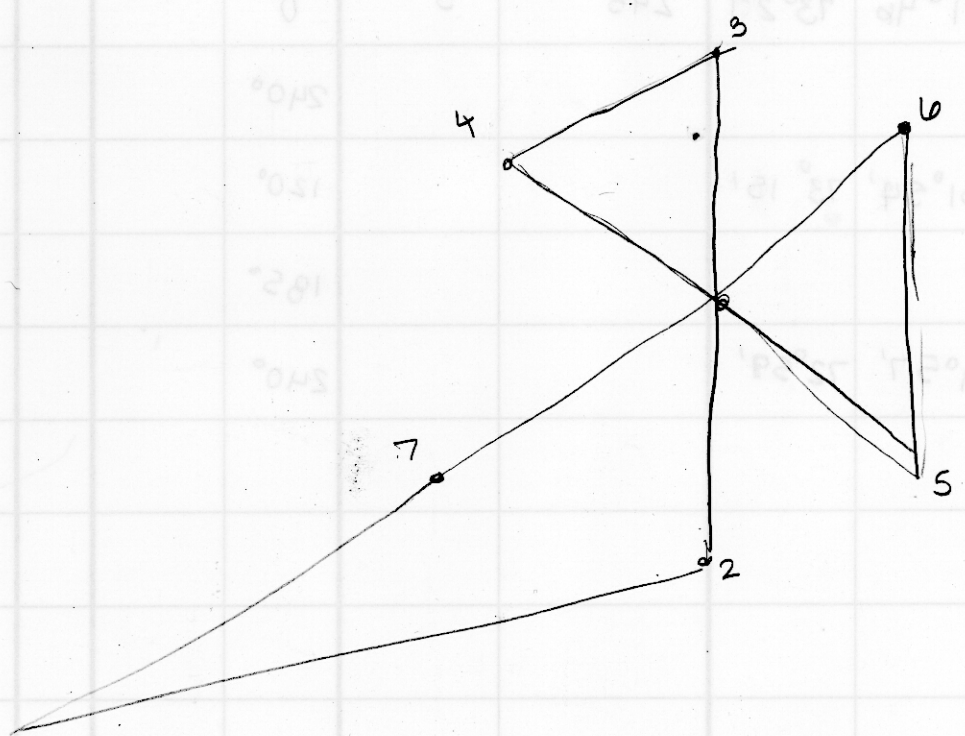
Scientist: Bucc1

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)
CX	0946	1030	40	12	1003	31°46'	73°27'	245	5	0°			
DW	1032	1053								240°			
CX	1057	1145	45	12	1123	31°54'	73°15'			120°			
DW	1153	1213								185°			
CX	1219	1313	80	12	124230	31°57'	72°59'			240°			

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

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Doppler flight-leg notes (for use in automatic QC and analysis)											
FLIGHT ID: 20121028H1											
Scientist: Bruce											
Leg Start Time	Leg End Time	Storm Motion		Center Fix			Max Radius (km)	Horz. Res (km)	Inbound track	Outbound track	Angle check?
		Direction	Speed	Time	Latitude	Longitude					
HMMSS	HMMSS	Degrees	Knots	HMMSS	DegMin	DegMin					(YN)
1030	1030	40	12	1003	31°44'	130°25'	218	5	0°		
1145	1145	45	12	1123	31°44'	131°15'	181	5	240°		
1213	1213	50	12	1243	31°44'	132°05'	152	5	120°		
1313	1313	80	12	1343	31°44'	132°55'	123	5	180°		
1519	1519	80	12	1543	31°44'	133°45'	94	5	240°		



Doppler Wind Parameters