Radar Scientist Form

(Updated 31 May 2019)

ground LPS. Lisa Bucci

Flight ID	2021081241	Storm	Fred	,	
	ar Scientist (Aircraft/Gro		Marks/	Reasor/	Fischer
AOC Rad	ar Operator, Picha	rds	/		

The aircraft radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft, working with the ground radar scientist to ensure successful transmission of all radar products from the aircraft in a timely manner, and contributing to mission science by communicating real-time radar products to the LPS. Specific responsibilities are detailed in the Aircraft Radar Support Guide located on the radar workstation desktop and in the flight bag.

∮ Pre-flight Notes.

Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

None

∮ Pre-flight Setup with Ground Radar Scientist.

Preferably before the planeside briefing, establish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

O Communicate any pre-flight issues noted above.

Confirm latest flight pattern. Sketch to the right. Indicate legs constituting proposed analyses.

Go through Steps 1-3 of Aircraft Radar Support Guide.

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4 25 Hispaniold

drops: 14/14 drop/sunt.
IDR: 3 and yses / 3 sent.
CRC: operational

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∮ In-flight Setup with Ground Radar Scientist.

After radar recording has begun, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

Go through Steps 4-7 of Aircraft Radar Support Guide.

0506A Fred

Indicate below any issues identified during Steps 4-7, in particular any radar instrumentation issues evident in the radar displays. If none, then simply write NONE below.

Buery thing was good until Daccidently 10 cled the TDR workstation and had to t ve boot at the IP (| yet ile not much on TDR) Fully recovered as a started getting in convection

∮ In-pattern Radar and Weather Event Log.

Indicate below any radar down times or significant weather observations that might be helpful for interpreting radar analyses (e.g., flight through sparse shallow convection).

(13)	Time (HHMMSS)	Event (Radar or Weather)
Piloti	1023	Start TDR processing for isolated show
Abitbol	1033	end leg # 1 turn TKO40 to Pt 3
Statelor	1050	end downwind leg
Nav!	1052	Start Leg # 2 Tk 290
Hama B. Richards		scattered cells at beginning of
B. F. Jo Haw	1144	end leg#2
Nikk! Tunco	1214	end downwind leg turn TK 360
Ashray :	1258	end pattern climb to tarry to LAL
Pata Pichards	13 15	TDR shutdown
Profese		
F7. ght eng hard	· ,	
Sanche 3		

∮ End-of-Flight Shutdown with Ground Radar Scientist.

Once the aircraft exits the system, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

Go through "NEAR END OF FLIGHT" Steps 1-5 of Aircraft Radar Support Guide.

If you recorded 'N' for Analysis Sent at any point during the flight, please detail the situation below. If there are any other *mission-critical* issues pertaining to the radar systems not documented above, please note them here. If none, then simply write NONE below.

This was a tricky mission with Fred Lown graded to adepression, land interactions and truncated legs. Completed 3 analyses without much information on center position. Pattern was flown off yes truted position. Data was x-mitted ciny way to help the model nitializator even though low Coverage. * Put date onto N43AF harddrive even though this is a N42RF mission 3 Analyses done and xmilled

Jobfile Parameters for Automated TDR Analysis

		FLIGH	T ID:	207/0	812 H	Aircraft Radar Scientist: Marks / Fischer							
Leg Start Time	Leg End Time	Storm Motion		Center Fix Time Latitude Longitude		Inbound Track	Outbound Track	Event Type	Max Radius	Horiz.	Accept. for Graphics?	Analysis Sent?	
HHMMSS	HHMMSS	Deg	Kts	HHMMSS	Decimal Deg	Decimal Deg	Azimuth (deg)	Azimuth (deg)	IN/TS/ H/MH	if not 250 km	if not 2 km	(Y/N)	(Y/N)
1023	1033	NA	NA	NA			135	135				4	9
1052	1144	NA	NA	NA			240	240				7	4
1214	1258	NA	AU	NA			360	360				y	4
												1	
													2)

Dropsonde Scientist Flight ID 2012 08/241 Storm Fred Mission ID 0566 A Fred Dropsonde Scientists Wadler Warneke **AVAPS** Operators The Lead Project Scientist (LPS) on the P3 is responsible for determining the distribution patterns for dropwindsonde releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns are often altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. On the G-IV the sole HRD person is designated the LPS. The following list contains more general supplementary procedures to be followed. (Check off or initial.) Preflight 1. Determine the status of the AVAPS and workstation. Report results to the LPS. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land. Complete the appropriate preflight set-up and checklists. In-Flight 1. Operate the system as specified in the operator's manual. ∠ 2. Ensure the AOC flight director is aware of upcoming drops. 3. Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal. Recommend if a backup dropsonde should be launched in case of failure. × 4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log. Post flight Complete Dropwindsonde Scientist Log. Download all raw and processed AVAPS files to thumbdrive Brief the LPS on equipment status and turn in completed forms and thumbdrive. Debrief at the base of operations. Determine the status of future missions and notify Field Program Director as to

where you can be contacted.

NOAA P-3 GPS Dropwindsonde Scientist Log (MS Word version 2020)

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Dir/Spd (deg/kt)	Lowest Wind Hgt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	
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* 1/30%

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019) Storm Frod Flight ID 20210812#1 Dropsonde Scientist Wadder AVAPS Operator Warneke Dropsonde Scientist AVAPS Operator Page# 2 Wind closest to Drop Time Lat Long SST Ob Sfc Pressure EyeEyewall, Sonde ID Dir/Spd (deg/kt) Hgt UTC # (°N/S) (°E/W) (mb) (C) Rainband, etc, (m) 1223 195665 73,9266 C43 10 Comments end to 365.25, your goode

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