Radar Scientist

	Radar Scientist
Flight ID_	2021081011 Storm AL94/166
Radar Scien	ntist Warks Regar Technician Richards
	board radar scientist is responsible for data collection from all radar systems ssigned aircraft. Detailed operational procedures and checklists are contained
	tor's manual. General supplementary procedures follow. (Check off or initial.)
Preflight	
1/ 1	
1.	Determine status of equipment and report results to 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 check list.
In-Flight	
1.	Monitor the Tail Doppler Radar function regularly, using the real-time TA
	display, to make sure the Doppler radar is scanning and working normally.
2.	Once at the IP, request that the tilt be adjusted to remove sea clutter.
3.	Request that the LF radar is set to full scan (non-sector mode) for first Figure 4.
<u>X</u> 4.	Maintain the Doppler Wind Parameter form as well as a written commentary in
	the Radar Event Log of event times, such as ending and restarting of radar recording. Also document any equipment problems or changes in R/T, INE, or
	signal status.
Post flight	
	Complete the summary checklist and all other appropriate forms
1.	Complete the summary checklist and all other appropriate forms.
2.	Download all Belly (LF) scan radar data files to thumb drive.
3.	Download all tar'd (TA) radar data files to thumb drive.
4.	Brief the LPS on equipment status and turn in completed forms and thumb drives
	to the LPS.
5.	Debrief at the base of operations.
6.	Determine the status of future missions and notify HFP Director as to where you
	can be contacted.

HRD Radar Scientist Check List

Flight ID: 202 08 1071
Aircraft Number: N43 RF
Radar Scientist:Mank / Reason
Radar Technician: Radar S
Component Systems Status (Up ↑, Down ↓, Not Available N/A, Not Used O):
Radar Computer
Lower Fuselage (LF) Antenna
Tail (TA) Antenna
Radar Post flight Summary
Significant down time:
Radar LF
Radar TA
Other Problems:

HRD Radar Event Log
Flight ID 20210810P Storm AL94 TD6.

Radar Scientist Marks Read Radar Technician Produced Season Read Recognition Revolution Revolutio

(Include down time and times of when recording ended and was restarted)

Time (HHMMSS)	Event
839	To Lakeland
1212	Started recording TDR descend toleret.
	just outside outera in Gande
1221	DTR 185 15001
	pite our was through took bangs
12/8	climb to 2500'
1257	6? just on S side of show live abrost
	windshift not swed a
1313	@ TK OSD along Islands
1338	3 TK 225 to 6)
1344	(9? broad win in ma
1424	(4) Turk (x 360 cep word + (5)
1458	5) TK 13T to 9
1504	9: 61000 weathers in was 1513 end leg
1540	Shortdown radar Chub head to
	no apparent low-level covaliation in DR
	analysas

Doppler Wind parameters

Flight ID	207108	1611		Dopple	r flight-leg	notes (fo	r use in	Scie	enti	st: Ma	· lectros	001
Leg Start Time	Leg End Time	Stori	n Motion	Time	Center Fix Latitude	Longitude	Inbound	Outbound	1	Max Radius (km)	Horz. Res (km)	Sent
HHMMSS	HHMMSS	Degree	s Knots	HHMMSS	(Deg/Min)	(Deg/Min)	track	track		efault = 24	Default = 5	(Y/N)
12(121)	11313	NH	IVA	17573			160	1170				
1232	11124	·NjA	A	3.91			227	225.				
[4:5)	1513	MA	MA	13 cf			15	180				
		1.										
												~
											72.00	

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

Storm _	T(6	ght ID	Di	opsonde Scien	tist <u>Wadle</u> 2		_ AVAPS Ope	rator_ $\dot{\lambda}$	briecke	
Mission II	oloba INVET(ex.	0101A)	Ta	ake Off <u>©840</u>	2		_Landing			
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.	Ob #
1	115636	1156	18,93	61 W	10/6,/	06/ / June	10			
Comme	nts completely (1	ew (KA.	Consord W	st 2 rec	Post Select					
2	1ts completely (1 20264 6019	1202	1837	65.36	1014,5	854/8	10			
Comme	nts 3063 3/00	1 /			/					
9	203420251	15/1	18.18)/	64,30	10/4,5	035/19	10			
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Lead Project Scientist

			//0/202/ Flight ID 202/05/07/
	Stori Miss	n or l	Project 006 A Invest Experiment name Invest D 6/ A194
	Pre-f	light	,
	X	1.	Participate in general mission briefing.
	$\overline{\Sigma}$	2.	Determine specific mission and flight requirements for assigned aircraft.
		3.	Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
	×	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.
	\times	5.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
	X	6.	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.
	区	7.	Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Director.
	X	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
	N K K K	9.	Make sure each HRD flight crew member has a life vest.
	×	10.	Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
	In-Fli	ight	
	W	1.	Confirm from AOC flight director that satellite data link is operative (information).
	\mathbf{X}	2.	Confirm camera mode of operation.
		3.	Confirm data recording rate.
	洒	4.	Complete Lead Project Scientist Form.
	K.	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-f	light	
		1.	Debrief scientific crew.
		2.	Gather completed forms for mission and turn in to data manager at HRD.
	\sqcup	3,	Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
		4.	Obtain a copy of the radar DAT tapes. Turn in with completed forms.
		5.	Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.
[[Note: all	data ren	noved from the aircraft by HRD personnel should be cleared with the AOC flight director.]
		6.	Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to Field Program Director
		7.	Determine next mission status, if any, and brief crews as necessary.
		8.	Notify Field Program Director as to where you can be contacted and arrange for any further coordination required.
		9.	Prepare written mission summary using Mission Summary form.

Lead Project Scientist Check List

Storm or Project

Experiment name

Invest TD6

Flight ID 202/08/0I/ Mission ID

Mission ID 0106A Invest

A. Participants:

Function]	Participant	Function	Participant Any Hathawa /Show ARel Todd January 10/200
Lead Project Scientist Ma	- C1/ (1) mil	Flight Director	dy Hatran
Radar Marke	1 3000 100	Pilot Abitool	2 / Ha wasse
Workstation		Pilot	/5(104) 2
Cloud Physics		Navigator	15 Sama 1951
Dropsonde Was Low		Systems Engineer	711
Dropsonde		Data Technician	1611 re ce/0/201/
AXBT/AXCP		Electronics Technician	s Kra 64/5-0465
Observer/Guest Change	1		\sim , \sim / \sim
Observer/Guest	15 C	Flight Engineer 50	nales,

B. Take-off and La					
Гаке-Off: <u>0639</u>	UTC	Location: _	<u>La</u>	<u> 1e</u>	5m2
Landing:	UTC	Location:			
Number of Eye Pen	etratio	ons:			

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
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/				
/				
/				
/	-		·	

	per.
D. Mission Briefing:	
trans, + to P+1 (IP) boun Not estimated 5	mar ^e
To LED +broke los to P+2 60 MM 399	
TK 030 to P+3 60mm, NF 75 TK 225 to 6 to pt 4 60mm Sw 76	
TV 77 + 6 to pt (1 60 mm SW 70)	
F5 certifice Alpha	
H not box se for a search	

Storm or Projec	+LEY TOL	Experiment name	asked wissian
Flight ID 252	/	Mission ID 0/06 A	Invest

E. — Equipment Status (Up U, Down D, Not Available N/A, 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	V			
AXBT/AXCP				
Ozone instrument				
Workstation	~			
Cameras	✓			

REMARKS:
Tasked Mission:

Lead Project Scientist Event

Date 8/16/2/

Flight ID 207108 TIPS /JON CK/MAGE

Time	Event	Position	Comments	
0839	70	Lakeland		
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170				
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