

19980921H1 RADAR

Form E-5
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Doppler Radar Scientist Check List

Flight ID: 98 0921 H1
Aircraft Number: N42RF
Doppler Radar Operators: GAMACHE
Radar Technician: ROLES/BARR/CARPENTER
Number of digital magnetic tapes on board: 6

Component Systems Status:

MARS <u>✓</u>	Computer <u>✓</u>
DAT1 <u>✓</u>	DAT2 <u>✓</u>
LF <u>✓</u>	R/T Serial # <u>102</u>
TA <u>✓</u>	R/T Serial # <u>202/123</u>

Time correction between radar time and digital time: RADAR STILL 1/2 sec ahead of flight-level
2 TAPES LEFT

Radar Postflight Summary

Number of digital tapes used: DAT1 1
DAT2 _____

Significant down time:
DAT1 _____ Radar LF _____
DAT2 _____ Radar TA _____

Other Problems:

E.5 Doppler Radar Scientist (On-Board)

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

E.5.1 Preflight

- ___ 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- ___ 2. Confirm mission and pattern selection from the on-board LPS.
- ___ 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.
- ___ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

- ___ 1. Operate the system(s) as specified in the operator's manual and as directed by the on-board LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.
- ___ 2. Maintain 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.

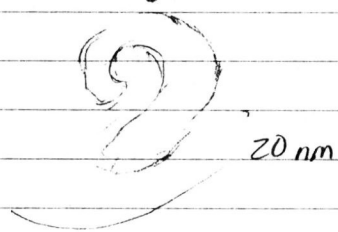
E.5.3 Postflight

- ___ 1. Complete the summary check lists and all other appropriate check lists and forms.
- ___ 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- ___ 3. Hand-carry all radar tapes and arrange delivery as follows:
 - a. Outside of Miami - to the HRD Field Ground Operations Center (FGOC).
 - b. In Miami - to MGOC or to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ___ 4. Debrief at the appropriate operations center (FGOC or MGOC).
- ___ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

AI NEAL :)

980917H1

1940 Interesting reflectivity on radar of 5-10 DB?



980821H1

172845

Heavy Sea 200 nm out from center as we approached eye from SE.

16° 32' 63° 23' 172900 sonde

1732 KING PROBE WIRE BROKE

17 3 63 52 173810 sonde

174278 Now in continuous 1
1600/1600 mode
for VTD

Estimated 6
1754 17 49 64 54

1754 18 1 65 12 sonde

eyes all open to SW

181134 18° 28' 65° 39' sonde

1828 17°50.3' 64°58.5'

183455 East of track ~ 30 nm.
We've been seeing some
~~cloud~~ very turbulent
stuff near edge of
on some of these bands

184332 17°56' 64°0' Souda

185423 18°3' 64°51' Souda

passed under some turbulent
upper tropospheric return

1903 17°50' 65°04.5'

190830 17°33' 65°22' Souda

191742 17°4' 65°42' Souda

193853 17°55' 65°11' eye
Souda

1939 17°54.8' 65°09.0'

1945 18°23' 65°11'

980923H Hurricane Georges
Reconnaissance

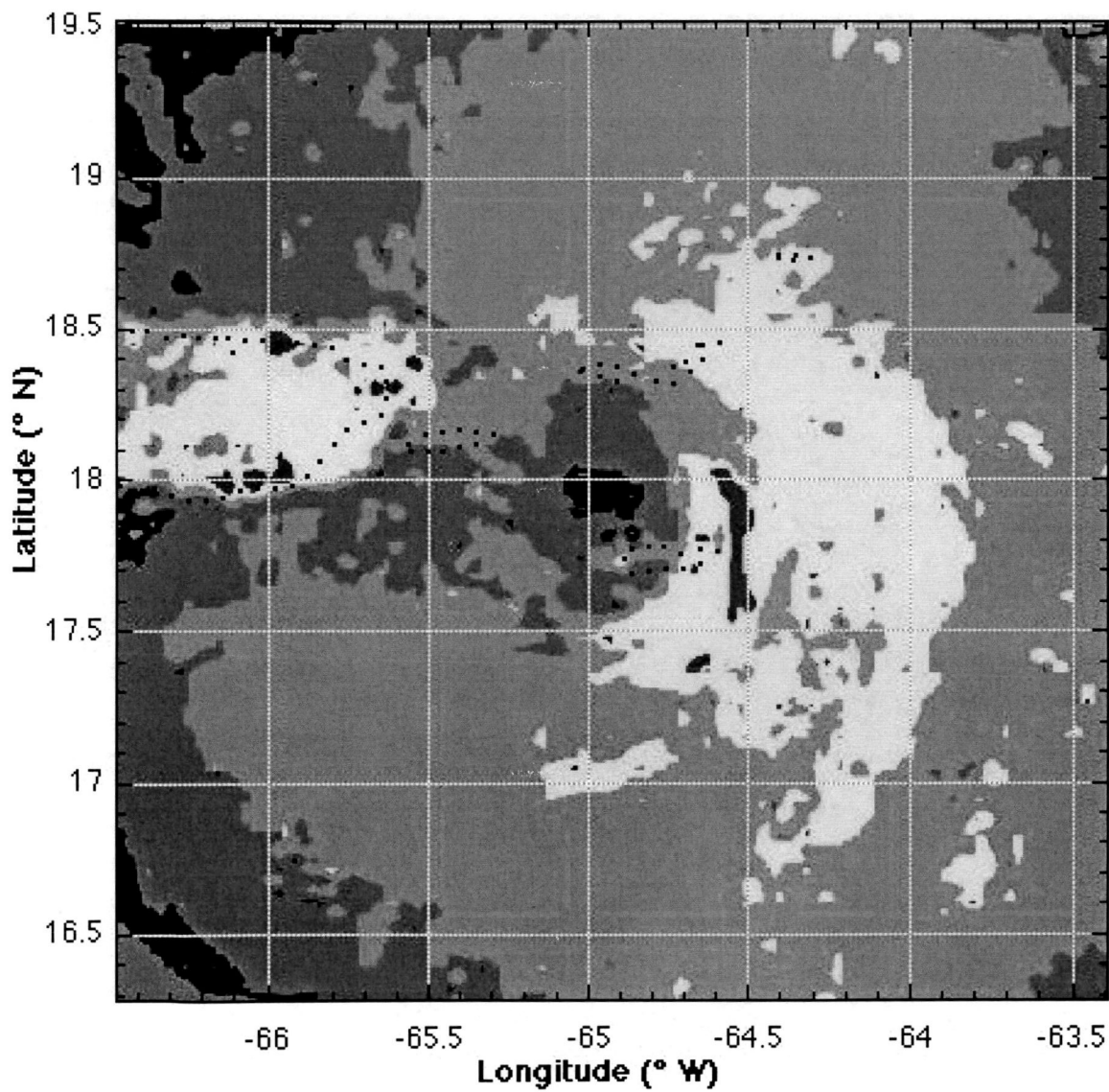
LtS - Eric Uhlhorn
Radar/Sondee M. Black
Weatherstation P. Leichter
10Z - takeoff - 9 h from Ops-later
Georges emerging from
west coast of Haiti after
transversing length
Should be a minimal hurricane
or strong tropical storm

1137 Flying through
strong convective rainband
NW or CRACR

1204 - eye? center? 996 mb
poor radar presentation

some banding north
strong bands on east, south
sides converging on coast

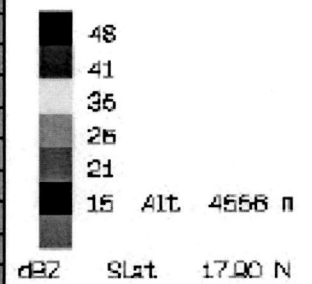
Max flight-level winds ~ 60 kts
SFC - 40 kts from sonde
Storm moving WNW at 12 kts



980921N1

GEORGES

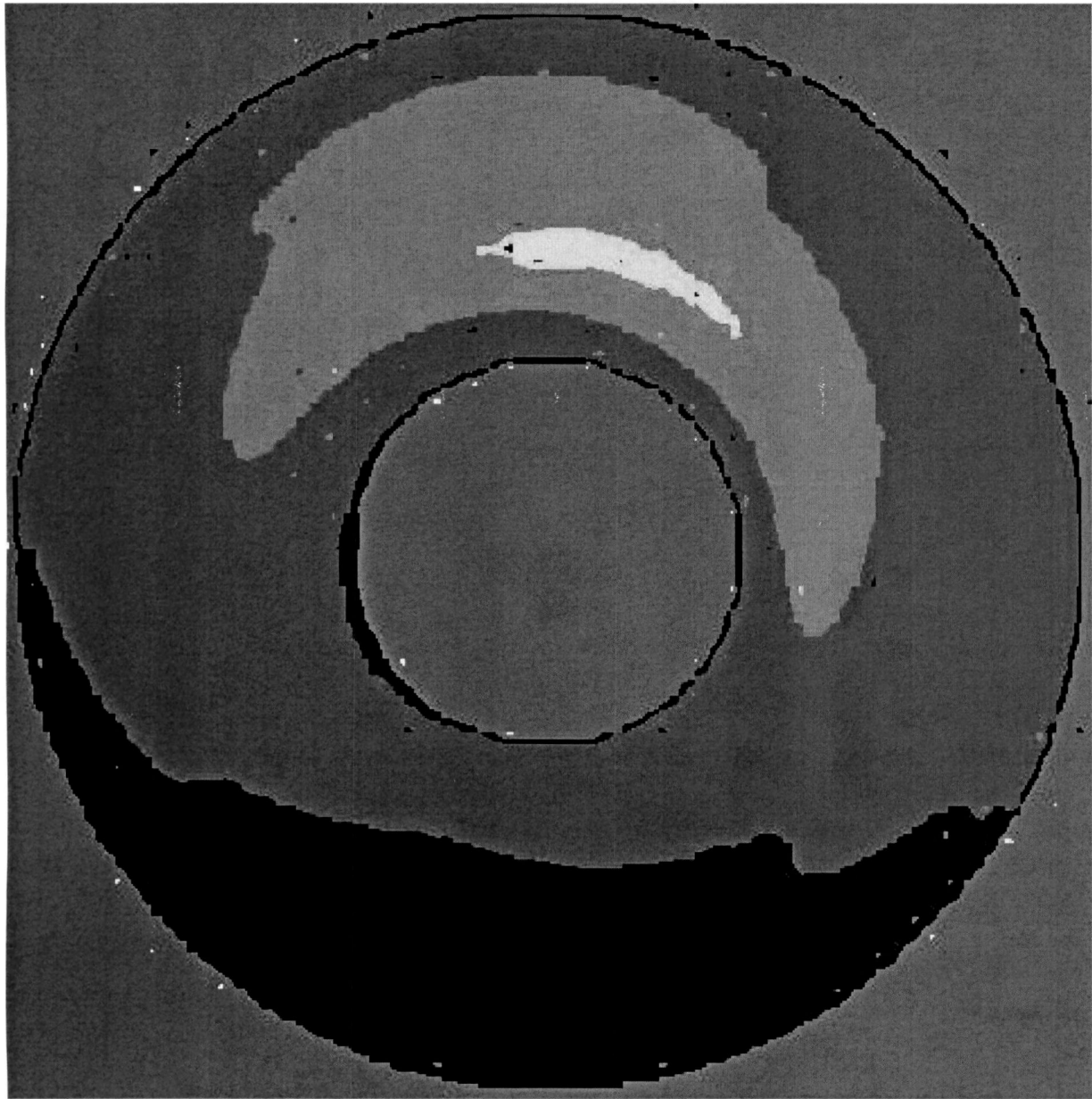
174212 Z to
175724 Z



SLat 17.00 N
SLon 64.93 W

360 X 360 km

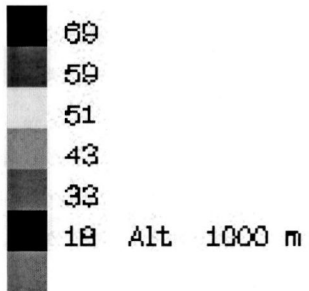
produced by
HRD / ADC



980921h1

GEORGE

163556 Z to
191402 Z



m/s Slat 17.84 N
Slon 65.01 W

150 X 150 km

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HRD / AOC