

19900828I - FDIR

HURRICANE GUSTAV VORTEX EVOLUTION (HRD)

900828I N43RF

TYPE OF DATA -----	SENSOR OR OPTION -----
INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA (APN-232)
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO3901.CON

Notes:

INE#1 was renavigated using two fixes (island overflight) after takeoff, at 1643z and 1708z, and the terminal correction at 0116z. No Loran was available for the flight.

The data system failed from 164630z to 1654z.

The APN-159 radar altimeter was bad the whole flight.

Accelerometer #2 was inop for the flight.

The Side Radiometer (RS) drifts gradually cold when at high altitude. It may have some use at the 5000 foot level.

Patched raw wetbulb temp (TW1) from 2039z to 2108z. It still exceeds TA a little, but is much more reasonable in the wet environment.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

	Take off -----	Landing -----
Aircraft static pressure	1013.2mb	1012.8mb
Corrected tower pressure	1012.7mb	1013.0mb

Jack Parrish, Flight Director