

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center

Flt ID: 070927 H	From: TBPB	To: TBPB
Flt. No: 07-057	Blk In: 1636 z	Time On: 1631 z
ETD: 8z	Blk Out: 0725 z	Time Off: 0734 z
ETE: 9 + 30	Blk Time: 9 + 11	Flt Time: 8 + 57
Sponsoring Org: NOAA-NHC	Program: HUR07	Purpose: TDR MAPPING

AOC Flight Crew

Aircraft Commander: STRONG	Data System: McMILLEN
Co-Pilot: NEWMAN, GIRMONTI	AVAPS:
Navigator: GALLAGHER,	System Eng: HILL
Flight Eng: BAST, WADE	A A:
Flight Director: FLATTERY,	A A:
Avionics: OLNEY	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
ABERSON, J	PI	HRD
BLACK, B	RADAR	"
CONTRERAS, R	IWRAPS	

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: TS KAREN

Mission ID: NOAA 2 0212A KAREN

NOTES: AL 122007

LIVE 1 FADING AFTER T/O

Recco Times

Fix # Fix Time

(See reverse for additional remarks)

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center

Flight ID: 070927 H Time Off: 0734 Z Time On: Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1007	1012		

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	2	Good: 2 Bad:
AXBT		
AXCP		
AXCTD		

Remarks:

TAKE OFF WEATHER: 0459z 09012kt 6SM 27/23 Q1014
LANDING WEATHER:

Flight ID: 070927H

Start: 0732
End: - 1633

PSW/PSF				X
PQW/PQF1/PQF2				X
INE	1	(2)		
ACCI	1	(2)		X
TT	(1)	2	3	X
TDM	1	(2)	3	(X)
RA	(159)	232		X

Time/Data Gaps

N/A

Substitutions

0953³⁷~~40~~ - 0958^{at} ~

100920 - 102832 (-1)

105520 - 120222 (-11)

130402 - 131359 (-.5)

135700 - 140110 (-.5)

144654 - 144717 ~

NOTES

VORTEX DATA MESSAGE

Date 9/27	Scheduled Fix Time —	Aircraft Number N422LF	Flight Director FLAHERTY
Mission Identifier: NOAA 2 0212A KAREN			OB Number: —
A	27 1035 Z	Date and Time of Fix	
B	13 DEG 29 MIN N	Latitude of Fix (If in Southern Hemisphere, use "S")	
	46 DEG 32 MIN W	Longitude of Fix (If in Eastern Hemisphere, use "E")	
C	NA MB NA M	Minimum Height of Standard Level	
D	48 KT	Estimate of Maximum Surface Wind Observed (visually)	
E	275 DEG 20 NM	Bearing and Range <u>From</u> Center of Maximum Surface Wind	
F	45 DEG 28 KT	Maximum Flight Level Wind Near Center	
G	275 DEG 18 NM	Bearing and Range <u>From</u> Center of Maximum Flight Level Wind	
H	EXTRAP 1001 MB	Minimum Sea Level Pressure computed from Dropsonde or Extrapolated from flight level. <u>If</u> extrapolated, clarify in remarks.	
I	14 C/2143 M	Maximum Flight Level Temp / Pressure Altitude <u>Outside</u> Eye	
J	20 C/2140 M	Maximum Flight Level Temp / Pressure Altitude <u>Inside</u> Eye	
K	13 C/ NA C	Dewpoint Temp / Sea Surface Temp <u>Inside</u> Eye	
L	NA	Eye Character (Closed wall, poorly defined, open SW, etc.)	
M	NA	Eye Shape / Orientation / Diameter Code eye shape as: C – circular; CO – concentric; E – elliptical. Transmit orientation of the major axis in tens of degrees from 01 to 18, i.e., 01 => 010 to 190; 17 => 170 to 350. Transmit diameter in nautical miles. <u>Examples:</u> C8 = Circular eye 8 nm in diameter; E07/15/5 = Elliptical eye oriented 070 to 250, length of major axis is 15 nm, length of minor axis is 5 nm; CO18-30 = Concentric eye walls with diameter of inner eye 18 nm and diameter of outer eye 30 nm.	
N	1345 / NA	Fix Determined By / Fix Level Fix determined by: 1 – Penetration; 2 – Radar; 3 – Wind; 4 – Pressure; 5 – Temperature. <u>Fix Level</u> (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0 – Surface; 1 – 1500 ft; 9 – 925 mb; 8 – 850 mb; 7 – 700 mb; 5 – 500 mb; 4 – 400 mb; 3 – 300 mb; 2 – 200 mb; NA - Other	
O	1 / 1 NM	Navigation Fix Accuracy / Meteorological Accuracy	
P	REMARKS: MAX FL WIND 28 KT 28 QUAD 49531110112 24 MAX SMC 48 K NW " 1030 Z 98 SCP EXTRAP FROM 7000 FT		

Instructions: Items A thru G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the Flight Director's discretion for unscheduled fixes.

VORTEX DATA MESSAGE

Date	Scheduled Fix Time	Aircraft Number	Flight Director
Mission Identifier:			OB Number:
A	27 11339 Z	Date and Time of Fix	
B	13 DEG 32 MIN N	Latitude of Fix (If in Southern Hemisphere, use "S")	
	47 DEG 03 MIN W	Longitude of Fix (If in Eastern Hemisphere, use "E")	
C	NA MB M	Minimum Height of Standard Level	
D	31 KT	Estimate of Maximum Surface Wind Observed (visually)	
E	230 DEG 48 NM	Bearing and Range <u>From</u> Center of Maximum Surface Wind	
F	199 DEG 32 KT	Maximum Flight Level Wind Near Center	
G	143 DEG 38 NM	Bearing and Range <u>From</u> Center of Maximum Flight Level Wind	
H	EXT 1004 MB	Minimum Sea Level Pressure computed from Dropsonde or Extrapolated from flight level. <u>If</u> extrapolated, clarify in remarks.	
I	18 C / 2141 M	Maximum Flight Level Temp / Pressure Altitude <u>Outside</u> Eye	
J	19 C / 2139 M	Maximum Flight Level Temp / Pressure Altitude <u>Inside</u> Eye	
K	13 C / NA C	Dewpoint Temp / Sea Surface Temp <u>Inside</u> Eye	
L	N/A	Eye Character (Closed wall, poorly defined, open SW, etc.)	
M	N/A	<u>Eye Shape / Orientation / Diameter</u> Code eye shape as: C – circular; CO – concentric; E – elliptical. Transmit orientation of the major axis in tens of degrees from 01 to 18, i.e., 01 => 010 to 190; 17 => 170 to 350. Transmit diameter in nautical miles. <u>Examples:</u> C8 = Circular eye 8 nm in diameter; E07/15/5 = Elliptical eye oriented 070 to 250, length of major axis is 15 nm, length of minor axis is 5 nm; CO18-30 = Concentric eye walls with diameter of inner eye 18 nm and diameter of outer eye 30 nm.	
N	134 NA	<u>Fix Determined By / Fix Level</u> Fix determined by: 1 – Penetration; 2 – Radar; 3 – Wind; 4 – Pressure; 5 – Temperature. <u>Fix Level</u> (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0 – Surface; 1 – 1500 ft; 9 – 925 mb; 8 – 850 mb; 7 – 700 mb; 5 – 500 mb; 4 – 400 mb; 3 – 300 mb; 2 – 200 mb; NA – Other	
O	1 / 2 NM	Navigation Fix Accuracy / Meteorological Accuracy	
P	REMARKS:		

MAX FL WIND 57 KT NE QUAD 1159 Z

MAX "SEMI" 56 KT NE QUAD 1105 Z

SLP EXTRAP from 7000 FT

1335
 ~32
 +3
 321309
 31 1339

Instructions: Items A thru G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the Flight Director's discretion for unscheduled fixes.

VORTEX DATA MESSAGE

Date	Scheduled Fix Time	Aircraft Number	Flight Director
Mission Identifier:			OB Number:
A	27 / 1210Z	Date and Time of Fix	
B	13 DEG 30 MIN N	Latitude of Fix (If in Southern Hemisphere, use "S")	
	46 DEG 47 MIN W	Longitude of Fix (If in Eastern Hemisphere, use "E")	
C	N/A MB N/A M	Minimum Height of Standard Level	
D	56 KT	Estimate of Maximum Surface Wind Observed (visually)	
E	040 DEG 100 NM	Bearing and Range <u>From</u> Center of Maximum Surface Wind	
F	122 DEG 57 KT	Maximum Flight Level Wind Near Center	
G	27 DEG 43 NM	Bearing and Range <u>From</u> Center of Maximum Flight Level Wind	
H	EXTRAP 1002 MB	Minimum Sea Level Pressure computed from Dropsonde or Extrapolated from flight level. <u>If</u> extrapolated, clarify in remarks.	
I	19 C / 2136 M	Maximum Flight Level Temp / Pressure Altitude <u>Outside</u> Eye	
J	20 C / 2142 M	Maximum Flight Level Temp / Pressure Altitude <u>Inside</u> Eye	
K	12 C / N/A C	Dewpoint Temp / Sea Surface Temp <u>Inside</u> Eye	
L	N/A	Eye Character (Closed wall, poorly defined, open SW, etc.)	
M	N/A	Eye Shape / Orientation / Diameter Code eye shape as: C – circular; CO – concentric; E – elliptical. Transmit orientation of the major axis in tens of degrees from 01 to 18, i.e., 01 => 010 to 190; 17 => 170 to 350. Transmit diameter in nautical miles. <u>Examples:</u> C8 = Circular eye 8 nm in diameter; E07/15/5 = Elliptical eye oriented 070 to 250, length of major axis is 15 nm, length of minor axis is 5 nm; CO18-30 = Concentric eye walls with diameter of inner eye 18 nm and diameter of outer eye 30 nm.	
N	134 / N/A	Fix Determined By / Fix Level Fix determined by: 1 – Penetration; 2 – Radar; 3 – Wind; 4 – Pressure; 5 – Temperature. <u>Fix Level</u> (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0 – Surface; 1 – 1500 ft; 9 – 925 mb; 8 – 850 mb; 7 – 700 mb; 5 – 500 mb; 4 – 400 mb; 3 – 300 mb; 2 – 200 mb; NA – Other	
O	1 / 2 NM	Navigation Fix Accuracy / Meteorological Accuracy	
P	REMARKS: 3 MAX FL WIND 57 KT NF QUAD 1159 1056-1059 1134 MAX 56nm wind 56 KT 11052 1055 1105 1054 1105 1053 1105 1052 1105		

Instructions: Items A thru G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the Flight Director's discretion for unscheduled fixes.

1105 56175 5FMR

~~1108 50175 FL~~

~~1130 50175 FL~~

1141 5517 FL

1142 57 FL

W 020

11

12102 FTX

11052 8FMR

1142 FL

108 miles

2
2.7
4
—
108

1515
27

65
4
—

1105
1330
4430

8.7 lb. $\frac{92}{5491-}$
1121

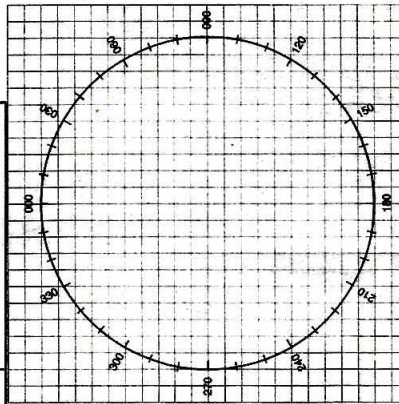
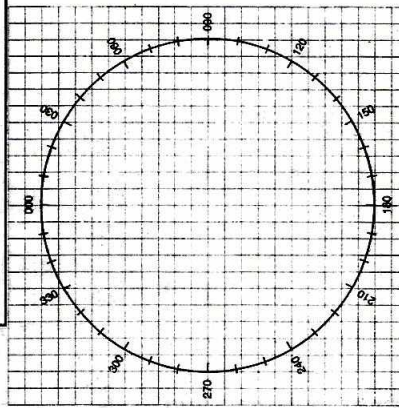
CLEARANCES

[illegible]

MISSION LOG

PAGE OF

OF



POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA, NOAA, NOAA, NOAA

- POSITION _____ **N/S** _____

- HEADING _____ TRUE/MAG _____
- AT _____ KTS TRUE/INDICATED _____

- FLIGHT LEVEL OR ALTITUDE.

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
NATURE OF EMERGENCY _____

- NATURE OF EMERGENCY
- ASSISTANCE DESIRED

- PILOT INTENTIONS
- WE HAVE

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
01:20	FA	13-02.1 054-11.7	13-02.1 054-11.7																		
01:40	A	13-02.1 054-11.7	13-02.1 054-11.7				105	15W	100	22	098	208	109	15	FL100	217	1745	5	+02	0712	
01:40	A	13-02.1 054-11.7	13-02.1 054-11.7				102	16W	086	22	084	224	108	9	FL100	224	18	189	+02	0712	
01:40	A	13-02.1 054-11.7	13-02.1 054-11.7																		
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EXTRAES

(C) CFS (I) INS (R) RADIO (V) VISUAL (O) CELESTIAL (D) DR

[illegible]