

U.S. DEPT. COMM/NOAA/OAO - DATA SECTION WORK FORM NO. 1 OAOWF1 FILE

FLT ID: 980271	FM: KMCF	TO: KMCF
FLT NO: 98-004	BLK IN: 0309Z	ATA: 0300Z
ETD: 1845Z	BLK OUT: 1837Z	RTD: 1849Z
ETE: 0400Z	BLK TIME: 8:32 8.5	FLT TIME: 8:11 8.2
SPONSOR ORG: NOAA	PROGRAM: HURR. RESEARCH	PURPOSE: HURR. MITCH.

OAO PERSONNEL

AC PHILIPPSBORN, R ✓	SYS ENG LYNCH, T ✓
CP KENUL, P / KENNEDY, P ✓	DATA SYS
NAV KOZAK, S ✓	RADAR HILL, J ✓
FE BAST, G ✓	BT/ODW CARPENTER, D ✓
RADIO SANS SOURCE, D ✓	CLD PHYS
FD C2724K, S / PARLISH, J ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BLACK, P ✓	P.I.	HRP
FRANKLIN, J ✓	SCIENTIST	"
LEIGHTON, P ✓	"	"
GAMACHE, J ✓	"	"
ROGERS, R ✓	"	"
GERZELMAN, S ✓	"	"
EBERWINE, J ✓	"	"
FAGEN, J ✓	MEDIA	FOX 13

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

KING LW OUT

BALANCE DUM 1922:30Z

6 PENETRATIONS

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2

FLT ID: 981027I

TIME OFF: 1849Z

TIME ON: 0300Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1018.8	30.12	1019.6	30.15

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES	1	
AXBT	8	
AXCP		
ODW		
GPS	31	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

DATE : 10/27/98

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N43RF ON 0309Z BLOCKTIME
OFF 1837Z 8.5

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: HURR. MITCH

Hazardous Duty Pay is required for flight made on 10/27/98
(DATE)

Request based on PENETRATIONS INTO HURRICANE

Personnel on board authorized Hazard Pay:

CZYZYK, S

PARRISH, J

BAST, G

HILL, J

SANS SOUCI, D

LYNCH, T

CARPENTER, D

PILOT/FLIGHT DIRECTOR: Alan G...

APPROVED: _____

DISAPPROVED: _____

CHIEF, AOC FLIGHT OPERATIONS: _____

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: MITCH

Prepared by the Hurricane Research Division at 01:17:58 PM on 10/26/98.
 File: /users/james/field_prgrm/flight_tracks/981027i.ftk

Aircraft: N43RF Altitude: FL100-100 Proposed takeoff: 27/1830Z

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ROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	22 00	85 30		1:30
2S	17 37	84 07	10/315	2:28
3S	17 36	84 07	9/315	2:28
4S	17 24	83 53	9/135	2:32
5S	17 23	83 53	10/135	2:32
6S	17 30	83 08	50/090	2:48
7S	17 30	83 50	10/090	2:57
8S	17 30	83 51	9/090	2:57
9S	17 30	83 52	8/090	2:57
0S	17 30	84 10	10/270	3:01
1S	17 30	84 52	50/270	3:09
2S	17 23	84 07	10/225	3:25
3S	17 36	83 54	8/045	3:29
4S	17 36	83 53	9/045	3:29
5S	17 37	83 53	10/045	3:30
6S	17 40	84 00	10/000	3:54
7S	17 39	84 00	9/000	3:54
8S	17 38	84 00	8/000	3:54
9S	17 20	84 00	10/180	3:58
0S	16 40	84 00	50/180	4:06
1S	17 21	83 55	10/150	4:20
2S	17 22	83 55	9/150	4:20
3S	17 30	84 00	0/000	4:22
4S	17 39	84 05	10/330	4:24
5S	18 13	84 26	50/330	4:32

DATE

SCHEDULED FIX TIME

AIRCRAFT NUMBER

ARWO

WX MISSION IDENTIFICATION

OB

12

(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE

A	27/2240	Z	DATE AND TIME OF FIX
B	16 DEG 38 MIN 0 S		LATITUDE OF VORTEX FIX
B	85 DEG 35 MIN E (W)		LONGITUDE OF VORTEX FIX
C	700 MB 2510	M	MINIMUM HEIGHT AT STANDARD LEVEL
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	NA DEG	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	335 DEG 123	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	245 DEG 10	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	EXTRAP 932	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	10 CI 3065	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	16 CI 3481	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	12 CI NA	C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L	CLOSED		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
A	C20		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of major axis in tens of degree, i.e., 01-010 to 190; 17-170 to 350. Transmit diameter in nautical miles. Examples: C8 - Circular eye 8 miles in diameter. EO9/15/5 - Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.
	16 DEG 38 MIN 0 S		CONFIRMATION OF FIX: Coordinates and time
	85 DEG 35 MIN E (W)		
	27/2240	Z	
	1234517		FIX DETERMINED BY/FIX LEVEL. FIX DETERMINED BY: 1 - Penetration; 2 - Radar; 3 - Wind; 4 - Pressure; 5 - Temperature. FIX LEVEL (Indicate surface center if visible; Indicate both surface and flight level centers only when same): 0 - Surface; 1 - 1500ft; 9-925mb; 8 - 850 mb; 7 - 700 mb; 6 - 600 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; NA - Other.
	1 / 2	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY

REMARKS

MAX FL WIND 128 KT SE QUAD 27/2137 Z 1637
 SLP EXTRAP FROM (1500 FT/ 925 MB/ 850 MB/ DROPSONDE) 700 MB
 SFC CNTR _____ / _____ NM FROM FL CNTR
 MAX FL TEMP _____ C _____ / _____ NM FROM FL CNTR

INSTRUCTIONS: Items A through 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 ARWO's discretion for scheduled (intermediate) fixes.

DATE		SCHEDULED FIX TIME	AIRCRAFT NUMBER	ARWO
WX MISSION IDENTIFICATION				
PASSEB				
08 8 9				
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE				
A	27/2133	Z	DATE AND TIME OF FIX	
B	16 DEG 42 MIN N S		LATITUDE OF VORTEX FIX	
B	85 DEG 36 MIN E W		LONGITUDE OF VORTEX FIX	
C	700 MB 2486	M	MINIMUM HEIGHT AT STANDARD LEVEL	
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED	
E	NA DEG	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND	
F	065 DEG 120	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER	
G	320 DEG 16	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND	
H	931	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.	
I	13 CI 3184	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE	
J	17 CI 3478	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE	
K	11 CI NA	C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE	
L	C22 CLOSED		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.	
A	C22		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of major axis in tens of degree, i.e., 01-010 to 190; 17-170 to 350. Transmit diameter in nautical miles. Examples: C8 - Circular eye 8 miles in diameter. EO9/15/5 - Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.	
	16 DEG 42 MIN N S		CONFIRMATION OF FIX: Coordinates and time	
	85 DEG 36 MIN E W			
	27/2133	Z		
	12345 / 7		FIX DETERMINED BY/FIX LEVEL. FIX DETERMINED BY: 1 - Penetration; 2 - Radar; 3 - Wind; 4 - Pressure; 5 - Temperature. FIX LEVEL (Indicate surface center if visible; Indicate both surface and flight level centers only when same): 0 - Surface; 1 - 1500ft; 9-925mb; 8 - 850 mb; 7 - 700 mb; 6 - 600 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; NA - Other.	
	1 / 2	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY	
REMARKS				
MAX FL WIND <u>120</u> KT <u>NW</u> QUAD <u>27/2128</u> Z SLP EXTRAP FROM <u>4500 FT / 925 MB / 850 MB / DROPSONDE</u> SFC CNTR <u> </u> / <u> </u> NM FROM FL CNTR MAX FL TEMP <u> </u> C <u> </u> / <u> </u> NM FROM FL CNTR				

INSTRUCTIONS: Items A through 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 ARWO's discretion for scheduled (intermediate) fixes.

1. 813-875-8255)
 1-800-826-4434 813-870-9630

WYUT KEITH
 BUNTZ

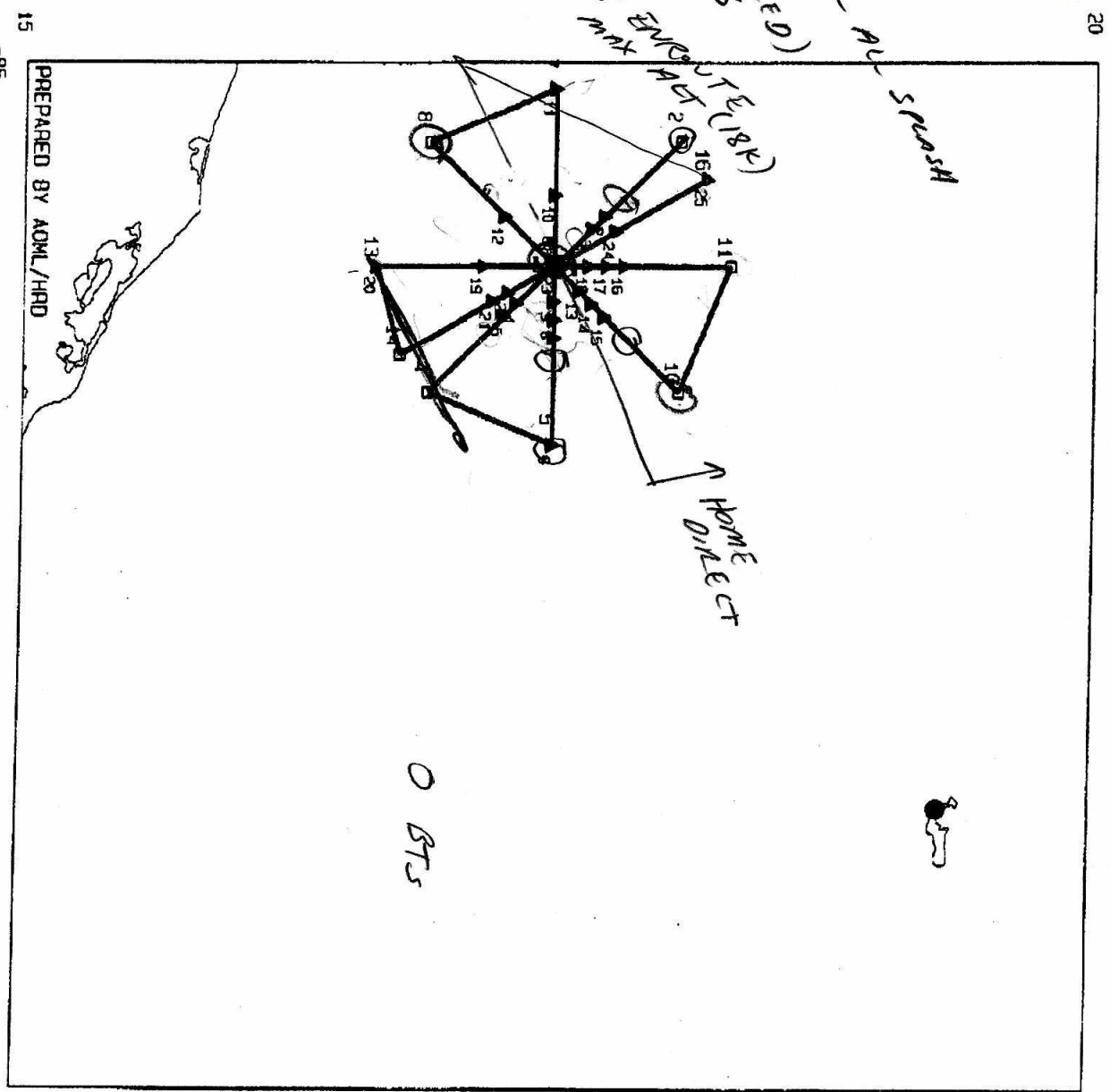
08-

FLIGHT TRACKS
MITCH

981027ix.flk

- RAWINSONDES 9809**
- Regular
 - 12Z only
 - 00Z only
 - Infrequent
 - Infrequent - 00Z
 - Infrequent - 12Z

▲ DROP LOCATIONS



PREPARED BY ADML/HAD

DATE

SCHEDULED FIX TIME

AIRCRAFT NUMBER

ARWO

WX MISSION IDENTIFICATION

OB

16

(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE

A	27/2340	Z	DATE AND TIME OF FIX
B	16 DEG 34 MIN (N) S		LATITUDE OF VORTEX FIX
B	85 DEG 35 MIN E (W)		LONGITUDE OF VORTEX FIX
C	700 MB 2521	M	MINIMUM HEIGHT AT STANDARD LEVEL
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	180	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	200 DEG 12.8	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	110 DEG 15	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	933	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	12 CI 3051	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	16 CI 3449	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	13 CI NA	C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L	CLOSED		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
A	C20		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of major axis in tens of degree, i.e., 01-010 to 190; 17-170 to 350. Transmit diameter in nautical miles. Examples: C8 - Circular eye 8 miles in diameter. EO9/16/6 - Elliptical eye, major axis 090-270, length of major axis 16 NM, length of minor axis 6NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.
	16 DEG 34 MIN (N) S		CONFIRMATION OF FIX: Coordinates and time
	85 DEG 35 MIN E (W)		
	27/2340	Z	
	12345/7		FIX DETERMINED BY/FIX LEVEL. FIX DETERMINED BY: 1 - Penetration; 2 - Radar; 3 - Wind; 4 - Pressure; 5 - Temperature. FIX LEVEL (Indicate surface center if visible; Indicate both surface and flight level centers only when same): 0 - Surface; 1 - 1500ft; 9-925mb; 8 - 850 mb; 7 - 700 mb; 6 - 600 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; NA - Other.
	1 / 1 / 1	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY

REMARKS

MAX FL WIND 130 KT S QUAD 27/2314 Z

SLP EXTRAP FROM (1500 FT/925 MB/850 MB) DROPSONDE

SFC CNTR / NM FROM FL CNTR

MAX FL TEMP C / NM FROM FL CNTR

MAX SFC WIND 110 KTS S QUAD 1530 NM FROM CTR

INSTRUCTIONS: Items A through 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 ARWO's discretion for scheduled (intermediate) fixes.

160

11307

981027I

1245-0303

RENAV

202300	-0.2, 0.1	22 16	-85 28.5
213300	0.0, -0.2	16 41.8	-85 36.1
220800	0.0, 0.4	16 40.8	-85 35.2
224000	0.2, -0.1	16 38.1	-85 36.1
231100	0.8, 0.1	16 34.8	-85 35.8
234000	0.8, 0.4	16 34.2	-85 35.2
001600	1.0, -0.3	16 31.0	-85 36.3
030800	2.0, -0.9	27 51.0	-82 29.8

RA-159 SPIKE @ TAKEOFF REPLACE W/232 1844:01-1852:26 X

RA-159 PROPT, REPLACE W/232 WITH OFFSET OF +21.0, 2325:30-2327:00 X

RA-159 PROBLEM, ~~REPLACE W/232~~ REMOVE ~~SPARE~~ BAD DATA PATCH 0136:40-0137:10 X

RA-159 SPIKE @ LANDING, SET TO ZERO 0259:29-0308:00 X

PSF SPIKE 0151:00-0152:00 X

DWI BALANCED 1922:30-1929:00 X

RA-159 DIP DUE TO OVERFLYING LAND 2223:00-2223:40, 2235:00-2235:40, X

(HEAVY PRECIP)

TT2 PROPT 2048-2052, 0008-0013, 0034-0042,

BKR FROTE 2043-2047

APR FARE 0039-0250

PSW SPIKE 1955-1958, 0148:30-0149:30

DWL FROTE 2112-2125

DWL WET INEYE 2207-2211, 2309-2316,

LXI, AVI, DWI, TT1

[illegible]

