

19901010I1-FDIR

TS MARCO RECCO

FLIGHT #1 H901010 N42RF

TYPE OF DATA SENSOR OR OPTION

INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO2901.CON

Notes:

There was a short data gap between 0518z and 051910z.

The aircraft positions were renavigated with respect to 5 good LORAN-C fixes and the terminal position.

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	1003.3mb	1003.2mb
Corrected tower pressure	1004.4mb	1004.4mb

Jack Parrish

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
TS MARCO RECCO
YYMMDDL      FLIGHT ID EX: 890808I
901010H
HHMMSS START TIME    -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
045701
HHMMSS END TIME      999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
140500
HHMMSS TAKE OFF TIME
050601
* NUMBER OF TAPE (I2)
01
* -----LOGICAL UNIT OF INPUT DATA (I1)  4, 8 OR 9 FOR TAPE DRIVE
1                                           1 FOR READ FROM DISK
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1)
4
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----TODAY'S DATE (MMDDY)
01311
* -----DATE OF PROGRAM (MMDDY)
06099
* -----STATIC PRESSURE PROBE (I1)
* 1 = PSRW (ROSEMOUNT WINGTIP)
* 2 = PSRF (ROSEMOUNT CO-PILOT/FUSELAGE)
2
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQRW (WNGTIP) 4 = FUTURE USE
* 1 = PQR1 (FUSLGE) 5 = FUTURE USE
* 2 = FUTURE USE    6 = FUTURE USE
* 3 = PQR3 (FUSLGE) 7 = FUTURE USE
1
* -----INE NUMBER (I1)
* 1 = INE 1
* 2 = INE 2
1
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE #
1
* -----TEMPERATURE PROBE (I1)
1
* -----PRESSURE OPTION (I1) - FOR VERTICAL WIND COMPUTATION
* 0 = PRESSURE ALTITUDE (OVER LAND)
* 1 = RADAR ALTITUDE APN-159 (OVER WATER)
* 2 = RADAR ALTITUDE APN-232 (OVER WATER)
2
* -----PRINTOUT RATE, SECONDS (I2)
10
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (I2)
10
* -----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENERATOR #2
1
* -----NAME OF CONSTANTS FILE EX CO3863.CON
CO2901.CON
CO2901.CON
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RECCO INTO TS MARCO NEAR
SW FLORIDA COAST

FLIGHT #2 I901010 N43RF

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

Notes:

There were no data/time gaps.

The dewpoint sensor, TW1, behaved quite well throughout most of the flight. This flight director attempted to balance/calibrate the dewpoint sensor during the following time frames,

185000Z - 185700Z
213500Z - 213900Z
214500Z - 214700Z

The spikes generated by the calibrations was removed and patched over.

The aircraft positions were renavigated with respect to good LORAN-C fixes.

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	1005.3mb	1006.5mb
Corrected tower pressure	1005.3mb	1006.2mb

Flight meteorologist: A. BARRY DAMIANO

U.S. DEPT. COMM./NOAA/DAO - DATA SECTION WORK FORM NO.1 DROWF1 FILE

FLT ID: <u>I901010</u>	FM: <u>Kmra</u>	TO: <u>Kmra</u>
FLT NO: <u>91-003</u>	BLK IN: <u>0145Z</u>	ATA: <u>0140Z</u>
ETD: <u>1700Z</u>	BLK OUT: <u>1651Z</u>	RTD: <u>1700Z</u>
ETE:	BLK TIME: <u>8:54</u>	FLT TIME: <u>8:40</u>
SPONSOR ORG: <u>NHC</u>	PROGRAM: <u>HURRICANE OPERATION</u>	PURPOSE: <u>RECCO INTO MARCO</u>

DAO PERSONNEL

RC <u>TILKNOR</u>	SYS ENG <u>LIND</u>
CP <u>KENNEDY</u>	DATA SYS <u>LYNCH</u>
NAV <u>MOORE</u> <u>NOKUTTS</u>	RADAR
FE <u>MOORE/BAST</u>	BT/ODW <u>GONZALEZ</u>
RADIO	CLD PHYS
FD <u>DAMIANO</u>	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<u>McFADDEN</u>		<u>AOL</u>
<u>BURPEE</u>	<u>HRD</u>	
<u>MARKS</u>		
<u>FRANKLIN</u>		
<u>GRIFFIN</u>		
<u>GRUNTHAL</u>		<u>AOL</u>

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

NOAA 0215A MARCO
TS MARCO

191800 Turned on I-W

1748Z
25°03' 994MB
82°36'
2257Z
25°57' 994MB
82°32'
2044Z
25°35' 993MB
82°40'
2357Z
2609Z
82°27'
993MB

0104Z
26°13' 993MB
82°32'

1312 DPT

~~212600Z~~
~~213600Z~~
~~214600Z~~
~~18500~~
185500Z
213600Z
214600Z

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 ORWF2 FILE

FLT ID: F901010 TIME OFF: 1700Z TIME ON: 0140Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1005.5 SP 1005.6	29.69/1005.5 RA 1005.9	PS 1006.0 SP 1005.7	29.72/1006.9

NO

DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

9

DOPPLER TAPES

ODW CASSETTES

2

HARD COPIES

RXBT

RXCP

ODW

3

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

T/O
85°F = 29.4TD
76°F = 24.4LND
74
81°F = 27.2
75°F = 23.9

20 35

I901010

TIME	LAT	LONG	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS			PQ
170200	2545	8012	182	182	170	25	613	597	23.2	23.3	1005.6	924.6	OUR	BAY	75.4
171600	2505	8025	277	270	186	32	1870	1848	16.4	14.1	1004.2	807.9			79.0
172700	2502	8108	246	284	193	38	1863	1875	16.1	14.8	1002.9	808.6			82.6
173400	2510	8139	278	270	186	40	1859	1853	16.3	15.5	1000.5	809.6	DOWN	TO STRM	74.6
174200	2512	8211	262	255	159	31									
181700	2457	8416	119	116	314	49	528	459	23.1	24.1	1002.4	951.6	RAINBND		75.0
182900	2432	8320	120	126	277	50	522	444	23.1	23.0	1001.4	952.1	RAINBND		73.2
184000	2426	8240	345	372	255	55	519	449	23.0	22.7	1000.7	951.0	TWO STRM		75.7
191000	2600	8247	359	6	111	24	567	470	23.7	22.6	998.8	950.8	CLR N OF ST		72.9
192300	2647	8252	235	231	100	21	565	487	24.2	23.0	1000.8	947.9	N OF STRM		66.0
193600	2618	8340	226	240	32	25	561	478	24.1	24.7	1000.3	947.6			76.9
194100	2557	8411	234	242	351	32	541	465	23.5	25.1	1001.4	950.2			74.3
195600	2533	8448	234	246	332	38	537	456	23.4	25.2	1002.8	950.3			79.1
200600	2514	8504	90	84	318	40	516	454	24.0	23.5	1003.2	953.8			73.7
202000	2513	8403	92	85	321	42	509	426	23.9	24.4	1000.8	953.5	TWO STRM		65.8
213500	2720	8855	314	316	340	9	6101	6323							
214702	2753	8442	203	208	331	23	6101	6333	-8.7	-19.6	995.1	465.6	Good		64.0
215830	2859	8510	204	209	351	27	6049	6333	-8.2	-24.3	993.9	465.6	Good		76.3
221440	2545	8540	89	87	337	25	6045	6333	-7.6	-23.7	993.3	465.7	Good		70.3
223000	2545	8418	91	82	335	40	518	446	24.0	24.0	1002.0	952.9	TWO STRM		71.0
230600	2554	8159	328	329	145	50	591	482	22.8	24.6	997.5	944.2	TWO NNW		69.3
232500	2702	8243	330	337	94	25	552	490	25.6	22.6	1002.4	948.8	along coast		69.0
001500	2541	8209	30	29	218	38	554	445	23.2	23.9	997.3	948.6	along coast		71.4
003510	2647	8245	220	216	79	36	562	497	22.9	22.8	1002.4	947.9			73.7
005220	2558	8317	91	85	18	26	562	488	23.4	22.5	1001.2	947.7	TWO STRM		69.8
012000	2550	8127	105	117	189	41	1612	1589	17.9	17.7	1000.5	834.0	TWO HORIZ		64.4
013000	2539	8051	117	126	186	32	1610	1610	17.2	18.3	1003.1	834.2			72.7