

Flt ID: 010820H	From: KMCF	To: KMCF
Flt No: 01-31	Blk In: 0205Z	ATA: 0155
ETD: 1700Z	Blk Out: 1711Z	ATD: 1722Z
ETE: 9.0	Blk Time: 8.9	Flt Time: 8.6 8:33
Sponsor Org: HRD	Program: CANEXTV	Purpose: TS CHANTAL

AOC Personnel

AC: KENUL, P ✓	Sys Eng: DELGADO, J ✓
CP: TEBEST, R ✓ / TAGGART, B ✓	Data Sys: McMillan, S ✓
Nav: NEWMAN, C ✓	Radar:
FE: BAST, G ✓	GPS/BT: BARR, J ✓
FD: SHEPHERD, T ✓	Cld Phys:
Avionics: ROGERS, M ✓	MECH:

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
59 BLACK, M ✓	PI	HRD
2 MARKS, F ✓	Co-PI	HRD
3 Dodge, P ✓	RADAR	HRD
3 GAMACHE, J ✓	AVAPS	HRD
C3X BARNES, G ✓	OBS	U. Hawaii
1 CASTELLUS, T ✓	SEMR	U. Mass
C3X HUDSON, ✓	CN	
WILSON, DALE ✓	OBS	WEATHER CHANNEL

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

SEMR T.U. @ TAKE OFF

1811 Bal Dpt 1

152 fix 17.8 86.8 1006 WNW15

44

CALL
Lori
Rock
677-2930

ETA KMCF 022

2565
1711
854

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

AGCWF2

Flt ID:

010820H

Time Off:

1722Z

Time On:

0155Z

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1017.3

30.06

1016.6

30.00

Number

Data Disposition / Date / Quality

..

Flt Lvl Tapes

2

→ TRS

Radar Tapes

1

→ HRD

Cloud Physics Tapes

Video Tapes

4

→ HRD

AXBT

18

AXCP

AXCTD

Dropsondes

21

1 Bad wind

OK - unsped with
N42° deep Log

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

Flight ID: 010820H

Page 1 of 1

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

Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
175245	2628	8403	220	220	194	6.7	1.8	-11.5	4221	4511	1019.4	598.9	88.0	SET BCO
181000	2524	8459	218	217	149	6.4	0.3	-13.9	4391	4693	1019.7	585.6	77.2	SET BCO Ct ABV
184450	2255	8623	190	187	060	24.8	-0.4	-3.2	4390	4685	1019.9	585.5	91.7	
190615	2108	8615	172	167	072	32.4	2.2	-1.2	4393	4669	1012.2	585.3	95.8	OVC
193800	1949	8527	070	077	163	29.6	0.1	0.3	4388	4643	1014.0	586.1	74.5	BT1 Soud 1
200518	1949	8601	201	200	124	17.4	2.8	2.7	4011	4241	1013.3	615.5	73.9	BT2 Soud 2
201622	1850	8624	196	185	114	28.2	4.1	5.8	4006	4223	1008.3	616.2		BT3 Soud 3
202740	1829	8647	220	221	034	11.2	4.8	6.9	4037	4237	1005.3	613.6	72.7	BT4 Soud 4
204737	1826	8600	74	81	173	26.9	4.0	3.6	4042	4262	1008.3	612.8	68.4	BT5 Soud 5
210049	1822	8503	025	028	160	33.1	3.4	5.2	3981	4218	1012.2	617.4	67.0	BT6 Soud 6
210640														Soud 7
211124	1822	8547	263	255	169	37.0	3.7	4.0	4019	4238	1008.8	614.6	71.0	Soud 8 BT7
213605	1804	8715	152	154	318	13.0	5.4	4.3	4046	4251	1004.9	612.7	78.9	Soud 9 BT8
215810	1901	8602	049	058	142	37.3	3.7	4.5	4028	4248	1010.2	614.4	70.6	Soud 10 BT9
220730	1928	8531	045	046	153	28.2	2.0	2.6	4025	4262	1013.3	614.4	67.5	Soud 11 BT10
223415	1831	8700	212	205	150	28.9	4.7	6.7	4030	4219	1006.2	615.6	76.6	Soud 12
224717	1816	8610	78	77	181	30.0	4.8	4.5	4028	4247	1008.6	614.0	64.4	Soud 13
225856	1906	8627	326	327	134	30.8	3.1	3.9	4032	4261	1011.6	613.7	67.4	Soud 14
232626	1818	8729	092	093	050	7.9	5.7	7.4	4030	4221	1002.6	613.7	68.2	Soud 15
232336	1817	8716	087	097	155	16.1	4.7	6.0	4036	4231	1005.1	613.7	78.7	Soud 16
232630	1819	8703	082	091	175	33.4	4.7	4.8	4034	4235	1005.7	613.3	73.9	Soud 17
232930	1821	8649												Soud 18
233434	1824	8624												Soud 19
233853	1827	8607												Soud 20
234944	1905	8619	330	332	126	29.6	3.5	3.5	4041	4274	1012.0	613.4	70.6	Soud 21
235605	1932	8634	010	015	155	18.3	4.4	4.0	4039	4281	1013.4	613.3	64.8	END Sci
004040	2306	8625	011	014	105	15.6	-3.0	-13.3	5502	5867	1009.8	504.8	100.2	BKN BCO
005132	2405	8614	018	022	135	17.4	-3.9	-19.6	5497	5860	1012.2	505.3	76.9	BT 11 (12)
005530	2424	8606	022	027	144	23.5								BT 12 (12)
005930	2444	8557	018	022	151	25.3								BT 13 (12)
010330	2506	8550	021	025	152	23.2	-5.2	-19.6	5501	5861	1018.1	505.3	85.2	BT 14 (16)
010730	2525	8540	024	027	147	16.5								BT 15 (12)
011259	2553	8526	017	018	186	16.5								BT 16 (16)
011424	2611	8520	019	018	242	8.9								BT 17 (12)
012240	2641	8508	017	018	185	21.9	-6.3	-11.0	5501	5868	1017.6	505.0	94.6	BT 18 (12)
013930	2728	8337	068	068	272	15.8	-1.8	-6.5	4508	4786	1020.5	582.3	103.8	

2645

2008

950

1800 86.8

CAMEX 2001

T.S. Chantal

Flight #1 010820H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2012.CON

Notes:

Takeoff: 1722Z

Land: 0155Z

The radar altimeter (APN-159) was replaced by the APN-232 due to spiking during take off and landing (171901-015800 take off; 015030-015800 landing). No offset was applied.

A spike occurred in dew point #1 due to balancing and was replaced by dew pointer #3 from 181115-181427. No offset was applied.

During times when aircraft was flying through heavy precipitation, the Dew point temperature exceeded the ambient temperature resulting in relative humidities greater than 100%. No adjustments were made.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1017.3 mb	1016.6 mb
Corrected tower pressure	1017.9 mb	1015.9 mb

The aircraft INE positions were renavigated with respect to GPS.

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. It is recommended that these values be used for vertical wind analysis.

Flight Director: Tom Shepherd, (813) 828-3310 ext. 3053

01082014

TT 1

DW 1

INE 2

AZI 2

Spike DW1 @ ~1812 (balance)

181115-181427 Replace DW1 with DW3 0.0 offset

(FPASS missing data 17:13:00-17:13:17)

Replace RA159 with RA232

Take off 171901-015800 ✓

Landing 015030-015800 ✓

RENAV (OVER)

1) 180000	0.1	0.0	26 12	84 27.6	✓
184500	0.1	0.1	22 53.9	86 23.6	✓
193000	0.3	0.2	19 29.3	86 1.1	✓
2015000	0.3	-0.2	19 10.4	86 16.1	✓
5) 210000	1.1	0.2	18 20.8	85 6.3	✓
214500	0.9	0.2	18 18.3	86 47.2	✓
223000	1.6	-0.4	18 43.0	86 46.3	✓
231500	1.8	0.3	18 39.2	87 32.5	✓
000000	2.1	-0.4	19 44.5	86 23.6	✓
10) 004500	2.6	0.5	23 30.5	86 21.9	✓
013000	2.2	-1.3	27 4.9	84 32.2	✓
12) 015800	2.2	-0.6	27 51.6	82 30.6	✓

DOD INTERNATIONAL FLIGHT PLAN

N42RF AVAPS DropSonde Log

N42RF Project: H401

Flight ID 010820H

Mission: CHANTAL #1

Flight #: _____

System Status: _____

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ✓
1	003115095	1	1938.03	-.4		JMB	GOOD DROP	✓
2	003475034	1	2005.32	-.9	15secs	JMB	GOOD DROP	✓
3	003475031	1	2020.22	-.9	33secs	JMB	GOOD DROP	✓
4	003248007	2	2027.50	-.4		JMB	GOOD DROP	✓
5	003475026	1	2047.42	-.7	66secs	JMB	LATE WINDS	✓
6	003475088	1	2100.48	-.7		JMB	NO WINDS	
7	003475048	2	2106.40	-.8	23.6	JMB	GOOD DROP (No BT)	✓
8	003515122	1	2111.22	-.7		JMB	GOOD DROP	✓
9	003475089	1	2136.02	-.7		JMB	GOOD DROP	✓
10	003475097	1	2150.10	-.7	41secs	JMB	GOOD DROP	✓
11	003475038	1	2207.29	-.9	30secs	JMB	GOOD DROP	✓
12	003115089	1	2234.16	-.4	58secs	JMB	LATE WINDS (No BT)	
13	003115094	1	2247.20	-.5	27secs	JMB	GOOD DROP	✓
14	011245417	1	2258.55	-.3	40secs	JMB	GOOD DROP	✓
15	003515086	1	2320.27	-.5		JMB	GOOD DROP	✓
16	003515073	2	2323.36	-.7		JMB	GOOD DROP	✓
17	003475036	3	2326.31	-.4	28secs	JMB	GOOD DROP	✓
18	003248008	1	2329.37	-.3		JMB	LATE WINDS	
19	003475039	2	2334.38	-.5		JMB	GOOD DROP	✓
20	003475033	3	2338.54	-.6	35secs	JMB	GOOD DROP	✓
21	003825281	1	2349.45	-.8	25secs	JMB	GOOD DROP	✓
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
33								

My DIA

881

D

29

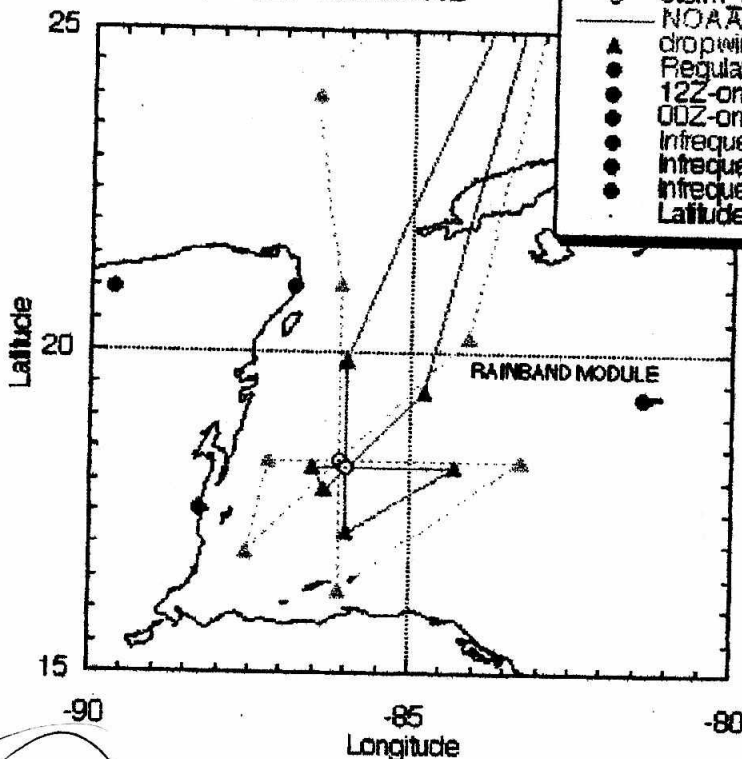
19

12

26k
18k
14k

(4)

010820 CHANTAL



124.3 CINAMIR
125.8 MERIDA

402.38

CINAMIR 27 28
08448

130.7

135.77

20 27 MARK 1830

86 46w

1803N
8701W

185d
~~16000~~
20

1807N
8735W

CP7

133.9

NE7

22 minutes

From star
230/70 from

SW of

DANUL

Reg DANUL

UA 321

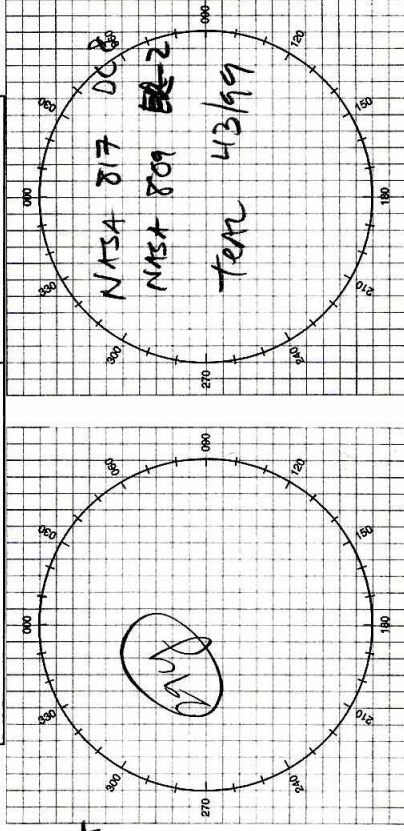
FAIR A321 FPR

874/00

FREQ	ALT	HDG	OTHER
[scribble]	160	S	183d 1915 120-70
W	100	N	125.8
W	100		JMF
W	100		125.1
W	100		

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 _____

- POSITION _____ N/S _____
E/W AT _____ Z _____

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE _____

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

- NATURE OF EMERGENCY

- ASSISTANCE DESIR

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING _____

[illegible]