

Flt ID: H010919	From: KMCF	To: KMCF
Flt No.: 01-42	Blk In: 2103Z	ATA: 2055Z
ETD: 1545Z	Blk Out: 1532Z	ATD: 1540Z
ETE:	Blk Time: 5:31 (5.5)	Flt Time: 5:15 (5.3)
Sponsor Org: NASA	Program: KAMP (#4)	Purpose: FLY OVER KEYS IN CONVECTION

AOC Personnel

AC: TENNESEN	Sys Eng: DELGADO ✓
CP: TAGGART ✓	Data Sys: McMILLAN ✓
Nav: NEWMAN ✓	Radar:
FE: BAST	GPS/BT:
Avionics: ROGERS ✓	Cld Phys:
FD: DAMIANO ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
BIGLER STAFF ✓	PI	Texas A&M
BLACK, R. ✓	ASST. PI	NRD
GAMACHE, J. ✓	RADAR	NRD
CHADWICK, V. ✓	OBS	Texas A&M
HUDSON, J. ✓	CCN	DRI

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

NASA 817 DC 8 8 minutes for DC 8 team 1453Z 28
 NO HF for ER2 305-219-8218 30.03 23
 30/15 UHF 123.175 1855Z DW check ~~2008~~
 Bal DW1 1552Z 2008Z
 Bal DW2 1553Z 2011Z
 HVPS out 1643Z
 Radar out 1550Z
 LF up TH down TA up 164520Z
 1953Z
 24° 41'
 81° 34'

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

AOCWF-2

Flt ID: 4010919 Time Off: 1540Z Time On: 2055Z

A/C (Take Off)

Wx Stn (Take Off)

A/C (Land)

Wx Stn (Land)

Pressure

1016.6

30.04 (1016.7)

1014.3

1014.9

Number

Data Disposition/Date/Quality

Slow/Fast Flt Lvl Tapes

2

Radar Tapes

2

Cloud Physics Tapes

1

Video Tapes

4

AXBT

AXCP

AXCTD

Dropsondes

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

28 18 10

Flight ID: #H010919

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _s	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
155400	2702	8237	152	154	313	7	8.8	-1.9	3340	3546	1013.7	671.4	91.2	CLR
163000	2455	8123	97	98	258	3	9.1	-7.2	3183	3392	1016.1	684.9	81.3	APPRH 13 line
163500	start S along line													
164200	resume S along line 2436 80°48'													
164944	end S leg along line 2404 80°48'													
165310	start N along line													
170350	end N leg 24°49'													
170700	start S run along line													
171100	2435	8049	174	177	270	8	7.1	7.0	3177	3381	1017.6	685.4	70.6	IN CLD
171830	end S run along line													
172200	start N leg along line													
172500	2418	8047	356	356	200	8	7.4	4.8	3180	3389	1017.5	685.1	74.3	IN CLD
173120	end N leg along line													
173500	start WSW leg along line 245 / 065													
174130	end WSW leg													
174610	start ENE leg													
175150	end ENE leg													
175500	start WSW leg													
175900	2436	8059	257	249	175	12	8.0	4.7	3189	3393	1016.3	684.3	70.1	RW-
180200	end WSW leg													
180430	start ENE leg 2434 81°12' 180													
180800	2436	8058	79	83	201	15	7.3	5.4	3149	3349	1016.5	687.9	67.4	LGTN
181100	end ENE leg													
181450	start WSW leg													
181900	2435	8102	258	257	127	13	8.0	3.4	3170	3378	1017.2	685.5	75.2	RW-
182200	end WSW leg													
182520	start ENE leg													
182920	2435	8058	79	84	183	18	7.6	4.7	3172	3323	1015.8	686.1	70.0	IN LINE
183320	end leg													

154028

Flight ID: ~~H0979~~ H010919

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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
183520	start WSW leg					(265)								
183720	in line													
184100	end WSW leg													
185400	2451	8116	81	82	256	7	8.2	-9.6	3165	3366	1017.5	686.9	74.6	RW -
190010	end ENE leg													
190340	start WSW leg													
190900	end WSW leg													
192620	start S leg				2452	8055								
193020	LGT TURB													
193530	end leg													
193900	2423	8051	5	7	94	7	1.1	-4.5	4392	4658	1013.5	585.6	74.7	CLD ABV
194300	end N leg													
195630	end S leg													
200500	2433	8058	6	5	285	9	-9.8	-10.5	5803	6150	1014.4	485.0	65.8	IN CLD
203100	2615	8214	322	323	329	16	-6.3	-19.9	5499	5834	1014.8	505.2	94.2	ABV CLD

H010919

Renav IWE 2

Data/Time Gap

Ra159 = Ra232

154211-154220

153701-154330

205231-205800

165800, .6, .1

175800, .7, .1

185800, 1.3, .3

192800, 1.8, .1

195800, 2.2, -.1

205800, 2.9, -.1

DW3 (Back) fix using DW1

1853-1856

185431 - ~~1854~~ ¹⁸⁵⁸⁰⁰ ~~185800~~

TD > TA

due to precip

N42RF ALT:3231 METERS

OUTPUT FOR ATTACK ANGLE NUMBER OF POINTS 480

AA SLOPE = 6.097914 AA INT = 2.155393

SD= .088711 CORR= .998430

KAMPS

Flight #4 010919H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	3 (Buck Research)
Altitude (for vertical wind)	RA159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2012.CON

Notes:

There was one time/data gap : 154211Z - 154220Z.

A spike was removed from dewpoint probe #3, DW3, during the period 1853Z - 1856Z and patched over. During this same period the dewpoint temperature, TD, was greater than ambient temperature, TA, due to heavy precip.

All other instruments worked optimally during the flight.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1016.6mb	1014.3mb
Corrected tower pressure	1016.7mb	1014.9mb

The aircraft INE positions were renavigated with respect to GPS.

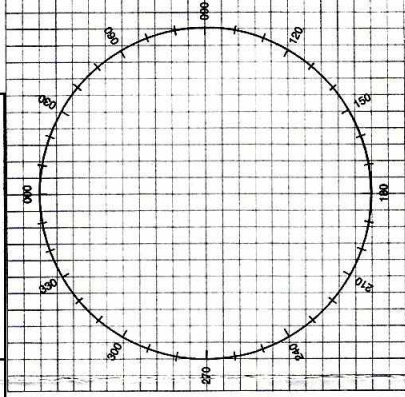
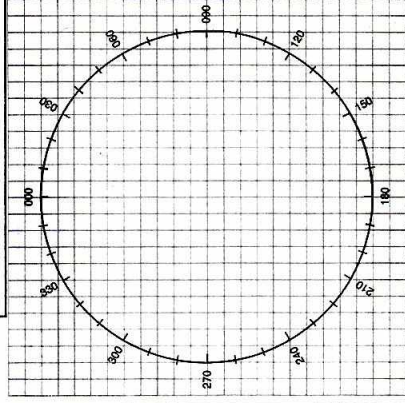
SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.
It is recommended that these values be used for vertical wind analysis.

Flight Director: A. Barry Damiano, (813) 828-3310 ext. 3073

AUTHORITY: 10 USC 8012 and EO 9397. PRINCIPAL PURPOSE: To aid in accurate identification of personnel participating in the filed flight.				ROUTINE USES: To provide data required to process flight plans with appropriate air traffic service authorities. A file is retained by the agency processing the flight plan. Voluntary; however, failure to provide the SSN could result in denial of flight plan processing.				DATE 19 SEP 01		AIRCRAFT CALL SIGN NOAA 42		AIRCRAFT DESG AND TD CODE P 3 / I	
BASE OPERATIONS USE													
TYPE FLT PLAN		TRUE AIRSPEED		POINT OF DEPARTURE		PROPOSED DEPARTURE TIME (Z)		ALTITUDE		ROUTE OF FLIGHT			
I		290		KMCF		1545Z		90		MCF SRQ 270 015 TIGAR (R) D 3+30			
										SRQ MCF			
										KMCF			
										5+00			
REMARKS WEATHER RESEARCH MISSION													
RANK AND HONOR CODE													
FUEL ON BD 7+30		ALTN AIRFIELD KPIE		ETE TO ALTN 0+10		NOTAMS dt		WEATHER dt		WT AND BALANCE On File		AIRCRAFT SERIAL NUMBER, UNIT, AND HOME STATION KMCF, NOAA, KMCF	
SIGNATURE OF APPROVAL AUTHORITY D. Tennesen				CREW/PASSENGER LIST		ACTUAL DEP TIME (Z)		BASE OPERATIONS USE					
DUTY PILOT IN COMMAND		NAME AND INITIALS D. TENNESSEN				RANK CAPT		SSN 838-38-3838		ORGANIZATION AND LOCATION NOAA-AOC, KMCF			
Remainder crew list on file at NOAA duty office: 8-3310													

CLEARANCES			
FREQ	ALT	HDG	OTHER
			1505 50005
			REF AF L190 +12
			2000
			1600
			110.65
			110.65
			5112

POSITION REPORT



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**

- 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 _____

- NATURE OF EMERGENCY
- ASSISTANCE DESIRED

- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

[illegible]