

Flt ID: 020519H	From: KMRY	To: KBJC
Flt No: 02-56	Blk In: 0142	ATA: 0136
ETD: 1800	Blk Out: 1759	ATD: 1813
ETE: 7+00	Blk Time: 7.6	Flt Time: 7.4
Sponsor Org: NOAA/AL	Program: ITCT 2K2	Purpose: MISSION 12

AOC Personnel

AC: TENNESEN, D	Sys Eng: DELGADO, J ✓
CP: HALVERSON, H	Data Sys: Mc MILLAN, S ✓
Nav: NEWMAN, C ✓	Radar:
FE: BASTI, G ✓	GPS/BT:
FD: SHEPHERD, T ✓	Cld Phys:
Avionics:	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
HUBLER, G ✓	PI	NOAA/CIRES
RYERSON, T ✓	Co-PI	NOAA
NEUMAN, A ✓	↓	NOAA/CIRES
BROCK, C ✓		NOAA/CIRES
SULLIVAN, A ✓		GA. TECH
WARNEKE, C ✓		NOAA/CIRES
ALVAREZ, R ✓		NOAA

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

Bol DP#1 ~1835
 DPI ABOUT 10° warmer than 2 or 3 @ 2118

2492
 1759
 733

303 271 4875

AHN: Cole Miller

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

AGCWF-2

Flt ID: 020519H Time Off: 1813 Time On: 0136

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1002.4	29.87	829.2	30.12

	Number	Data Disposition / Date / Quality	
Flt Lvl Tapes			
Radar Tapes	6		
Cloud Physics Tapes	CD		
Video Tapes	4	G. Hubler	
AXBT			
AXCP			
AXCTD			
Dropsondes			

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

ITCT 2k2

Flight #13 020519H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Total Temperature Probe	1
Dew Point Probe	3
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2022.CON

Notes:

Takeoff: 1813Z

Land: 0136Z

There was a time gap from 181540 to 181549.

The radar altimeter (APN-159) was replaced by the APN-232 due to spiking during takeoff (181001 - 181700) and landing 012200 - 013800).

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1002.4	829.2
Corrected tower pressure	1011.5	1020.0

The aircraft INE positions were renavigated with respect to GPS.

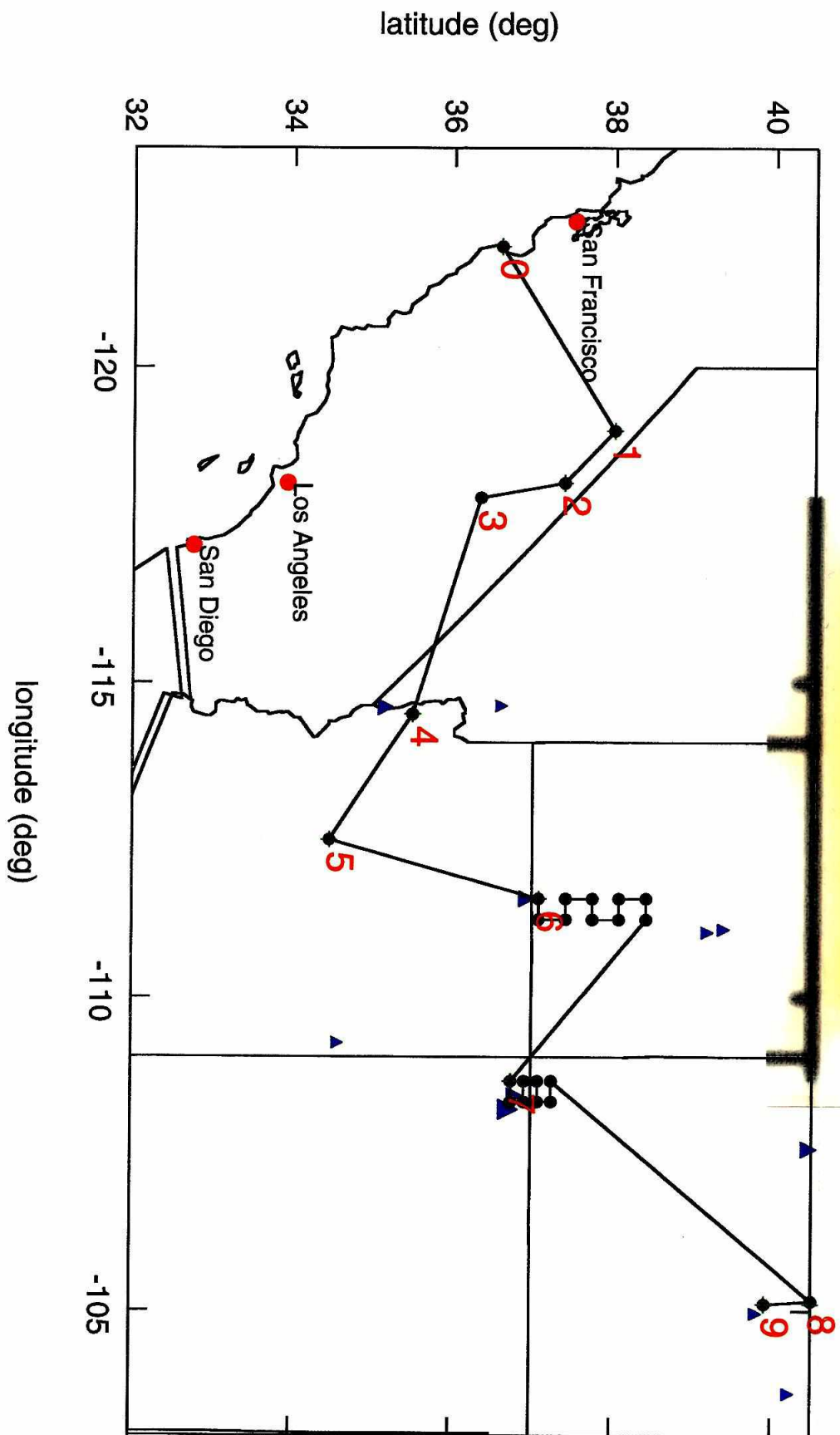
SPECIAL NOTE!!!

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

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
182140	3644	12055	90	100	204	46.5	-7.0	-23.5	3975	3721	973.4	618.2	75.7	13000 PA
184320	3734	11945	49	59	185	54.9	-10.0	-31.5	4722	2961	804.5	560.5	72.1	15500 PA
185200	3757	11859			181	47.4	Spiral descent over MONO LAKE (Bumpy)							
185900	3804	11901					Spiral at 1500' over MONO LAKE							
190950	3735	11831	132	139	190	33.1	-2.8	-17.2	4093	2441	830.7	610.8	66.2	13500 PA
193020	3625	11802			Touch	500'	AGL at Owens LAKE AREA							VERY DUSTY
195020	3555	11639	110	116	185	24.8	3.9	-16.6	3243	2996	946.0	680.2	73.4	DEATH VALLEY 10500 PA
195910	3611	11648			Spiral down then up looking for LA PLUME									thickness
200400	3612	11649			Touch	4000'	AGL now spiral up to 17500							
202315	3614	11605			Touch	17500 MSL	Descent 1500 fpm to 9500							
203320	3558	11606	117	124	192	29.4	7.5	-10.1	2922	2141	916.5	707.9	70.3	9500 PA
210310	3529	11444			Move over DP plume									
211220	3518	11407	117	123	172	25.4	3.1	-10.5	3723	2581	861.0	632.0	58.5	Climbing to 13500 MSL
213510	3435	11230	90	95	175	20.0	7.8	-14.0	3197	1679	840.0	682.6	65.3	10500 PRESCOTT.
215140	3458	11220	016	019	184	24.7	-0.5	-13.7	4102	2831	855.6	608.1	63.1	
221020	3619	11150	18	018	195	25.6	-4.8	-23.3	4698	3102	824.6	562.8	59.8	OVER GRAND CYN
222840	3705	11128	90	95	223	14.1	24.8	-4.9	1789	459	857.3	814.7	66.7	~1500 AGL
224340	3706	11123	91	93	218	7.1	24.0	-6.3	1878	741	859.4	807.9	70.2	~2000 AGL
224930	3706	11110	262	260	225	4.6	20.9	-7.5	2184	864	858.2	776.4	67.9	~3500 AGL
225920	3725	11126	91	95	195	19.5	19.9	-6.9	2288	490	812.7	767.3	62.4	
231520	3708	11125	270	267	213	2.3	18.0	-10.8	2530	1039	836.3	736.1	69.0	
232420	3740	11124	090	096	216	24.3	19.0	-12.5	2336	754	833.4	764.1	70.6	7500 MSL ~2500 AGL
233650	3759	11057	271	265	194	22.4	18.7	-8.5	2455	620	820.1	750.9	64.2	7900 MSL ~2000 AGL
000050	3817	11058	085	091	189	23.6	16.5	-12.0	2679	1334	851.4	729.6	64.4	8700 MSL ~4500 AGL
001940	3833	11209	38	42	198	28.5	-10.0	-28.3	3384	3472	790.6	505.9	64.7	CLIMBING TO FL230 → JETRO
002950	3847	11111	675	081	194	30.0	-23.2	-35.7	7042	5599	841.0	408.1	67.9	FL230 → JETRO
005300	3913	10943	078	080	212	19.0	-23.1	-24.6	7040	5873	860.1	408.3	62.8	FL230
010620	3939	10725	061	062	216	7.7	-12.9	-18.4	5812	2744	687.9	484.1	77.5	FL190

19 May 2002 Transit Monterey to Jeffco



020519H

TT # 1

T.O. # 1813

Land: 0136

TD # 3

Time gap 181540 - 181549

INE/AZI # 2

Pressure Alt.

Replace RA 159 w/232

181001 - 181700 T.O.

012200 - 013800 Land

Renew (over)

INE 2

1)	184500	0.8	0.6	39.5	37.0 -
	193000	0.9	0.8	25.2	1.8 -
	200500	1.3	0.2	8.6	49.4 -
	205000	1.4	0.5	36.8	50.5 -
5)	212500	2.1	0.2	54.9	12.3 -
	221000	2.3	-0.2	17.8	50.9 -
	230000	2.9	0.1	24.9	22.7 -
	235000	2.9	0.7	2.1	37.7 -
	003000	3.0	-0.3	46.9	10.5 -
10)	011500	3.8	0.1	52.8	33.6 -
11)	013800	4.1	0.4	54.8	7.4 -

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMM, 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 DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING _____

EMERGENCY MESSAGE

[illegible]