

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

FLT ID: 9802164	FM: KMRV	TO: KMRV
FLT NO: 98-030	BLK IN: 0517	ATA: 0510
ETD: 202	BLK OUT: 2010	RTD: 2021
ETE: 10+00	BLK TIME: 9.1	FLT TIME:
SPONSOR ORG: NOAA	PROGRAM: CAJET	PURPOSE: LANDFALL

OAO PERSONNEL

AC KENNEDY, P ✓	SYS ENG DARR, J
CP O'MARA, T ✓	DATA SYS McMILLAN, S
NAV STRONG, T ✓	RADAR
FE BAST, G ✓	BT/ODW JCPB ✓
RADIO	ELB-PHYS CLOSSER, G
FD WHITE, S ✓	DOPPLER BROWN, Z ✓

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
31 PERRSON, O ✓	Scientist ↓	ETC
RALPH, M ✓		ETC
SHEPHERD, T ✓		USSL
MILLER, D ✓		NPS
DAUGHERTY, J ✓		USSL
KINGSMILL, Dave ✓		DRI
SANDABAL, John ✓		CNN
47 HILL, S ✓		CNN

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

5 loops

29.66 - 1004

8 old BT's

Fast Temp

"V" 0447 100/3 10V 35ECT 7762N 10 / 8 29.68"
1005

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

FLT ID: 980216H TIME OFF: 2021 TIME ON: 0510

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1004.2	1004.0	1005.5	1005.0

NO		DATA DISPOSITION/DATE/QUALITY
1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES	1	
RADAR TAPES	1	
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES	1	
Pres	1	
AXBT	300 2000	
AXCP		
ODW GPS	8 km / 8 km	bed signal P-static

PHOTOGRAPHY				
	FWD	LS	RS	VERT
ON	2009	4	4	4
OFF	0341			
RATE	12-h			

REMARKS

980216 H

Time	LA	LO	TRK	GS	TH	TAS	WD	WS	GA	SP	Remarks
2004											ENG 57.5k
2010											7408
2021							126	15			TOFF
2054											Turn track 300'
2106	3520	12218	255	248			792	74.5	151	987	Mark the front
2108	3518	1222					215	27.3			Reverse to 6
2114	3521	12218	075	222			193	29.2			Mark the front
2120	3526	12152	075	220	086	219	722	41.7	318	968	BT Bad
2123	3529	12139	074	218	084	216	162	38.2	321	967	BT
2125	3531	12130									Climb to 12k
2130											TT4 buckle
2135											TT4 OK
2140	3537	12125	058	202	059	263	234	51.6	3605	637	Start at 6 → 6'
2144	3548	12120	076	306	096	259	249	47.0	2664	640	End leg 12k
2155	3525	12151	249	192	246	231	228	76.2	1801	808	Mark the front
2206	3520	12216									End leg 6k
2213	3521	12246	062	292	073	252	229	45.7	3622	641	Dropsound 12k
2222	3531	12127	076	288	081	249	273	49.9	3627	641	Dropsound 12k
2226	3531	12107	204	213	211	250	241	41.4	3731	641	1000'
2240	3570	12126	210	790	205	220	162	34.1	311	968	1000' to E
2318:48											Turn to D'
2323:30	3343	12042	093	211	100	215	125	20.7	332	968	BT
2343:38	3343	12030									BT E
2342:00	3341	12043	269	217	264	214	168	21.0	59	1000	Start leg 200'
2352:00	3338	12126									End leg 200'
2355:00	3336	12123	080	236	088	227	192	33.2	356	936	Start leg 2000'
0005:00	3342	12035	082	210	089	208	189	23.2			End leg 2000'
0008:00	3340	12048	272	203	266	218	211	28.8	1042	898	Start leg 3500'
0018:00	3339	12114	272								End leg 3500'
0034:00	3340	12118	273	216	222	273	227	60.7	6062	465	Start leg F200
0052:00	3357	12219	082	335	095	288	229	67.1	6064	465	Dropsound
0104:00	3258	12136	088	317	095	283	225	49.0	6072	465	Dropsound
0113:00	3255	12030	089	323	093	289	242	39.0	6023	469	Dropsound & part signal
0124:00	3315	11719	090	398	092	278	251	40.0	5957	473	Dropsound
0130:30	3353	11755	297	246	288	272	232	49.0	6086	465	Dropsound no W/V
0144:00	3312	11814	297	258	291	282	242	43.1	6084	465	Dropsound
0155	3339	11918					221	30.1			1000'
0209	3335	11914	252	232	356	224	224	10.4	485	956	N → C 1000'
0218	3410	11921	282	219	280	211	255	10.5	240		C → C Parapole
0303	3410	11912									C → C 1000'
0309	3412	11916	012	260	004	240	245	39.3	2998	693	10k Run Yth 000
0314	3429	11910	001	259	254	245	242	32.0	2165	693	End 10k Run
0315	3430	11918	175	275	177	246	227	16.5	2256	720	8k Run Yth
0320			281	227	272	221	140	21.0	1075	886	End 8k Run
0333											Begin climb 7k
0345	3428	12055	312								Turn to 180
0423	3528	12150	323	213	323	208	196	28			Turn to 180
0428	3523	12118	222	240	321	207	251	5.0			Climb to 6k
0444	360.4	12143	263	211	262	212	253	13.0			
0452	360.8	12223	016	224	012	215	254	17.2			

980216H

Start 2015:05H21
Stop 0512:00

220000	-0.8	-0.5
230000	-1.8	-0.6
000000	-2.3	-0.7
010000	-3.4	-0.4
020000	-3.8	-0.1
030000	-4.4	+0.1
040000	-5.5	+0.8
051200	-5.4	+2.1

DW2

~~2140~~ -

210 - 2205:01 - 221500

0050 -

0055 - 0040:01 - 0100:00

RA159 2015:05²¹H - 2021:40 = ϕ

2021:41 - 2023:00
w/6P5

0508:01 - 0512:00
w/232

RA159 Spikes

2025:01 - 2026:00

2042:01 - ~~2043:00~~
~~2042:30~~

2052:01 - 2055:00

~~202102:01~~ - 2108:00

2128:01 - 2129:00

2157:01 - 2158:00

2345:01 - 2346:00

0130:31 - 0131:30

0225:31 - 0226:00

0231:01 - 0232:00

0309:01 - 0322:00 w/6P5

2145

2140:01 - 220000 w/6P5

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
CALJET 02/06
YYMMDDL FLT I.D.
980216H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
201521
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
051200
HHMMSS TAKE OFF TIME
202100
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
1
* -----LOGICAL UNIT OF INPUT DATA (I1) 5, 8 OR 9 FOR TAPE DRIVE
8
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
8
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----DATE OF PROGRAM (MMDDY)
06094
* -----STATIC PRESSURE PROBE (I1)
* 1 = PSW (WINGTIP)
* 2 = PSF (CO-PILOT/FUSELAGE)
* 3 = FUTURE USE
2
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQW(WINGTIP)
* 1 = PQF1 (FUSELAGE 1281)
* 2 = PQF2 (FUSELAGE 1221)
* 3 =FUTURE US
1
* -----INE SELECTION (I1)
* 1 = INE 1
* 2 = INE 2
1
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
2
* ----- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
1
* ----- DEWPONT TEMPERATURE PROBE (I1) [1 OR 2]
2
* -----ALTIMETER 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)
1
* -----PRINTOUT RATE SECONDS (I2)
30
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (I2)
10 ! FOR STANDARD TAPE OUTPUT ONLY
* -----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENEATOR #2
1
* -----NAME OF CONSTANTS FILE EX CO3863.CON
CO2982.CON
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P-3 CHIEF SCIENTIST EVENT/RADAR LOG

Flight Number: 980216H

Project: CALJET

Date: February 16, 1998 *Aircraft ID:* N42 *Ch. Scientist:* O. Persson

Radar Sci: T. Shepherd/J. Daugherty (NSSL) *Radar Tech:* S. McMillan (AOC)

Data Tech: S. McMillan (AOC)

Radar parameters: Setup file = fast1

Pulses/sample = 32

Threshold on ref

Radar tapes (this flight): 1

Event Log

<i>Time Lat, Lon, Trk, Alt</i>	<i>Event & Comments</i>
200406 Z (36.589, -121.857) 41.2° 132m	Engine Start
200929 Z (36.589, -121.857) 355.0° 132m	Block Out
201628 Z (36.583, -121.836) 16.1° 160m	Engine run-up
202131 Z (36.590, -121.852) 293.1° 120m	Take off
202303 Z (36.629, -121.938) 335.7° 547m	Hdg to SHOEY
202616 Z (36.738, -122.112) 258.5° 697m	Turning to SE202727 Z (36.687, -122.139) 186.3° 610m
202758 Z (36.662, -122.142) 182.4° 458m	
203035 Z (36.537, -122.152) 182.0° 391m	Begin record TA and LF TA FA-cont, 32 pulses/sample, thresh refl. LF tilt 0.0
203256 Z (36.424, -122.158) 183.1° 394m	LF tilt 1.0
203404 Z (36.370, -122.161) 182.4° 326m	Descend to FL005
203509 Z (36.316, -122.162) 163.8° 240m	Turning to trk144
203618 Z (36.270, -122.126) 146.2° 244m	Trk 145, FL005; streaking on sea sfc

CALJET

204036 Z (36.097, -121.984) 144.8° 243m	Cold frontal rain band abt 55 km to a/c right (West) on LF
204334 Z (35.979, -121.880) 144.3° 244m	TA 10-15 dbz echo at a/c and toward shore. At abt 40 km rng to right of a/c, the leading edge of the cold frontal rain band is in view.
204554 Z (35.883, -121.794) 144.4° 242m	LF has 45 dbz core at 60-70 km rng duw W of a/c
204857 Z (35.759, -121.682) 144.1° 222m	LF tilt 1.8
205437 Z (35.522, -121.523) 246.3° 221m	At pt G; turn to trk 255
205626 Z (35.494, -121.650) 254.7° 223m	Trk 255 to try and get to cold front
205833 Z (35.461, -121.797) 254.7° 222m	TA showing abt a 35-40 dbz Bbnd with tops abt 15 km to left of a/c
210459 Z (35.363, -122.240) 254.3° 224m	Cold frontal rain band is abt 5 nm on our nose (from nose radar)
210608 Z (35.345, -122.317) 254.7° 223m	Passing thru narrow cold frontal rain band, temp increased ????
210821 Z (35.313, -122.458) 253.2° 226m	The pass thru cold frontal rainband was fairly calm. TA had 40+ dbz echoes.
210843 Z (35.307, -122.481) 257.5° 223m	Doing a 90/270 to reverse trk back to pt G
211225 Z (35.319, -122.447) 73.7° 385m	To right of a/c, Narrow cold frontal rain band is showing 45-50 dbz at abt 20 km rng
211354 Z (35.346, -122.332) 72.4° 386m	Nose radar shows cold frontal rain band just on nose
211443 Z (35.360, -122.271) 74.6° 389m	Passing thru front
211709 Z (35.402, -122.090) 74.7° 385m	Now in warm sector; echo tops abt 3 km
212005 Z (35.448, -121.878) 75.2° 385m	AXBT #1 Ch. 12 - a bad one
212305 Z (35.494, -121.661) 74.1° 387m	AXBT #2 Ch. 12 SST 14.4 C
212510 Z (35.528, -121.514) 74.4° 386m	At pt G; spiral up to FL120
213700 Z (35.575, -121.378) 190.6° 3740m	FL120
213734 Z (35.553, -121.402) 252.9° 3738m	Track 253
213840 Z (35.566, -121.470) 344.5° 3741m	Turn to trk 58
214017 Z (35.656, -121.362) 57.5° 3740m	LF tilt to 0.0
214153 Z (35.725, -121.219) 61.8° 3740m	LF tilt to 0.5, better image, descending to 9k' m back to 12k' trk 62
214357 Z (35.806, -121.031) 71.1° 3743m	Descent to 6k', trk 256, kissed 5k'
214933 Z (35.700, -121.280) 252.2° 1864m	Trk 252, 6k', will climb to 12k' at F', tilt on lf to 1.8

220319 Z (35.408, -122.094) 245.0° 1873m	Passed through front, seems to be fragmented echoes at this level, cells to 60 dbz.
220433 Z (35.378, -122.170) 244.2° 1874m	Tilt to 1.1, very high level second band to s on LF, must be strong to show this well beyond first feature.
220617 Z (35.336, -122.277) 226.4° 1910m	Popped out into clear air, spiral up to 12k', will drop sonde at top.
221203 Z (35.322, -122.172) 68.8° 3731m	12k', heading 68
221304 Z (35.352, -122.080) 67.8° 3692m	Sonde 1 away, 12k, good pth, no winds yet, get another one ready, finally got winds very late, ends up as pearl
221749 Z (35.426, -121.875) 41.0° 3690m	Sonde 1 splash, trk 76, "pearl" complete
222203 Z (35.520, -121.475) 76.5° 3688m	Sonde 2 away, 12', trk 76, good pth, 85 sec, no winds
222430 Z (35.566, -121.239) 76.7° 3685m	Will orbit this area to wait for new sonde, got winds
222528 Z (35.538, -121.175) 173.7° 3688m	Radar locked up
222656 Z (35.474, -121.232) 278.8° 3485m	Splash sonde 2, spiral descent to 1k'
222920 Z (35.513, -121.166) 182.6° 2144m	Will stay at 6k' until reach 12 miles off, then descend to 1k', track 212
223027 Z (35.462, -121.203) 210.9° 1884m	Start recording radars at 223013, both systems now up
223338 Z (35.322, -121.312) 211.0° 1888m	Descend to 1k'
223604 Z (35.213, -121.399) 233.5° 915m	Circle to get to 1k' prior to frontal passage.
223800 Z (35.271, -121.395) 117.5° 382m	Cloud base 1100'
223828 Z (35.252, -121.384) 197.8° 377m	1k', track 210, LF 1.8
224244 Z (35.059, -121.519) 211.0° 380m	Front to our right, 50+ db echoes on the deck in for scans at 25-30 km
225942 Z (34.307, -122.092) 214.2° 377m	LF tilt 2.2
230846 Z (33.898, -122.406) 211.7° 381m	LF showing several "hooked" echoes to E of a/c
231037 Z (33.814, -122.469) 208.8° 380m	At pt E, turning toward pt D
231139 Z (33.783, -122.424) 88.0° 380m	Trk088; FL010
231229 Z (33.786, -122.358) 85.9° 382m	Approaching several bands on the nose. The LF is a fairly confusing display right now, i.e., several bands with a general NE<-->SW orientation
231611 Z (33.788, -122.071) 90.7° 380m	Flight deck obs is that nose echo looks like a boomerang - a good description. The TA has an interesting pattern as well.
231801 Z (33.786, -121.928) 91.2° 381m	50 dbz on TA off right wing tip on fores
231832 Z (33.785, -121.888) 91.0° 377m	Sfc wave direction appears to be from due S

231956 Z (33.782, -121.784) 91.8° 377m	In the apex of the "boomerang" - FL winds have backed abt 20 degrees
232115 Z (33.778, -121.688) 92.8° 377m	40 dbz Bband on TA primarily to right of a/c on fores
232456 Z (33.766, -121.417) 93.6° 377m	There are 40 dbz precip shafts extending from Bband to sfc
233434 Z (33.729, -120.726) 93.3° 380m	AXBT #3 - SST 14.8C
233610 Z (33.723, -120.614) 94.5° 379m	Winds have backed to abt 170 now at 18 kts
233827 Z (33.691, -120.478) 192.1° 378m	At pt D'; reversing trk and descending to 200 ft.
233904 Z (33.673, -120.508) 282.1° 295m	FL winds now have backed further to 160 at 18 kts
234211 Z (33.691, -120.727) 269.5° 104m	FL002; trk 269; begin leg
234247 Z (33.690, -120.771) 267.5° 104m	TA has ~9 km tops; very stratiform in appearance; 30 dbz Bband
234520 Z (33.679, -120.952) 264.9° 111m	With a +4 deg tilt, the nose radar is showing the arch pattern of the Bband
234721 Z (33.668, -121.090) 264.5° 104m	Seas appear to be abt 10-15 ft - maybe less...
235215 Z (33.641, -121.426) 264.8° 124m	At pt E'; end leg; climb and reverse trk back to pt D'
235557 Z (33.619, -121.276) 80.9° 649m	FL020; trk081; approaching band again; this is the 3rd leg of flux stack
000032 Z (33.669, -120.929) 80.1° 654m	TA has 40 dbz Bband; echo tops abt 8 km
000526 Z (33.716, -120.568) 81.8° 654m	At pt D'; reverse trk and climb to FL035
000955 Z (33.676, -120.685) 272.4° 1092m	FL035; trk272
001602 Z (33.661, -121.095) 266.5° 1092m	LF tilt 1.3
001745 Z (33.653, -121.213) 266.5° 1090m	TA showing anvil overhead with 30-40 dbz echo to left pf a/c at abt 30 km rng
001815 Z (33.651, -121.246) 265.5° 1122m	End leg; spiral up to FL200
002721 Z (33.724, -121.234) 270.0° 4452m	LF tilt 0.0; FL140 and still ascending
003040 Z (33.662, -121.142) 27.9° 5169m	Climbing thru FL170 and almost at top of echo
003315 Z (33.704, -121.257) 233.0° 5751m	At FL185 and now climbing enroute to pt H'
003631 Z (33.581, -121.447) 234.0° 6102m	FL200; trking to pt H'
004503 Z (33.284, -121.932) 233.6° 6096m	Out in clear air at 20k', trk 234, 50+ dbz on surface to left in aft scans
004821 Z (33.178, -122.106) 233.4° 6100m	Cloud overhead again, right turn to 243

005101 Z (33.099, -122.268) 241.0° 6100m	50+ db to left of a/c 35 km, right on surface, 2-3 km tall of aft scans
005406 Z (33.008, -122.456) 237.1° 6099m	Turning towards I', track 86
005605 Z (32.951, -122.332) 86.8° 6097m	Sonde 3 away, good in about 10 seconds
005930 Z (32.967, -121.958) 87.5° 6122m	Static on sonde, climb didn't help, so descending to help it out better ingest below 20k', but 20k is ok
010053 Z (32.973, -121.810) 88.0° 6104m	Strong echoes under a/c, 40-50 db, appear to be passing over front, mild chop up here
010328 Z (32.980, -121.537) 88.3° 6097m	Splash sonde 3
010403 Z (32.982, -121.476) 88.1° 6099m	Sonde 4 away, 20 k feet, trk 88, winds in 60 seconds
010634 Z (32.988, -121.211) 88.8° 6097m	Descending to help sonde info, didn't help, back to 20k, down to 19k' still there, climbing back up, Lost winds due to static
011014 Z (32.989, -120.816) 90.3° 6042m	Winds back on sonde 4, 19.8k'
011304 Z (32.998, -120.514) 88.6° 6042m	Sonde 5 away, good pth, winds in 25 seconds, static problems, climbing to see if that helps
011524 Z (32.998, -120.265) 89.6° 6088m	Spotted a few really wierd looking sweeps on ta, looks ok now
011614 Z (32.999, -120.175) 89.1° 5994m	Lost all signal to sonde, descending to 19k', not helping, lots of static on a/c, this appears to be a bad layer for sonde launches
012024 Z (33.005, -119.714) 89.0° 5920m	Very strong bright band about 40 db clear across the screen, (40km)
012404 Z (33.008, -119.331) 89.3° 5994m	Sonde 6 away, good pth, winds in 40 seconds
012753 Z (33.011, -118.928) 89.1° 6077m	Static is killing sonde signal
012916 Z (33.012, -118.779) 89.8° 6095m	Wedge of high reflectivities to left of a/c on ta, highest in fore.
013039 Z (33.009, -118.631) 92.7° 6097m	Good signal back on sonde
013108 Z (33.007, -118.579) 93.4° 6097m	Sonde signal lost
013151 Z (33.003, -118.503) 92.8° 6099m	TA looks convective to left
013645 Z (33.000, -117.990) 89.2° 6097m	Turning to trk 297, 20k'
013829 Z (33.087, -117.977) 297.5° 6097m	Sonde 7 away
014024 Z (33.148, -118.117) 297.6° 6098m	Winds lost
014204 Z (33.200, -118.243) 297.1° 6098m	Sonde 8 away, pth no winds on this one either
014738 Z (33.395, -118.667) 298.0° 6097m	Radar down
014846 Z (33.432, -118.754) 296.5° 6095m	Radar back

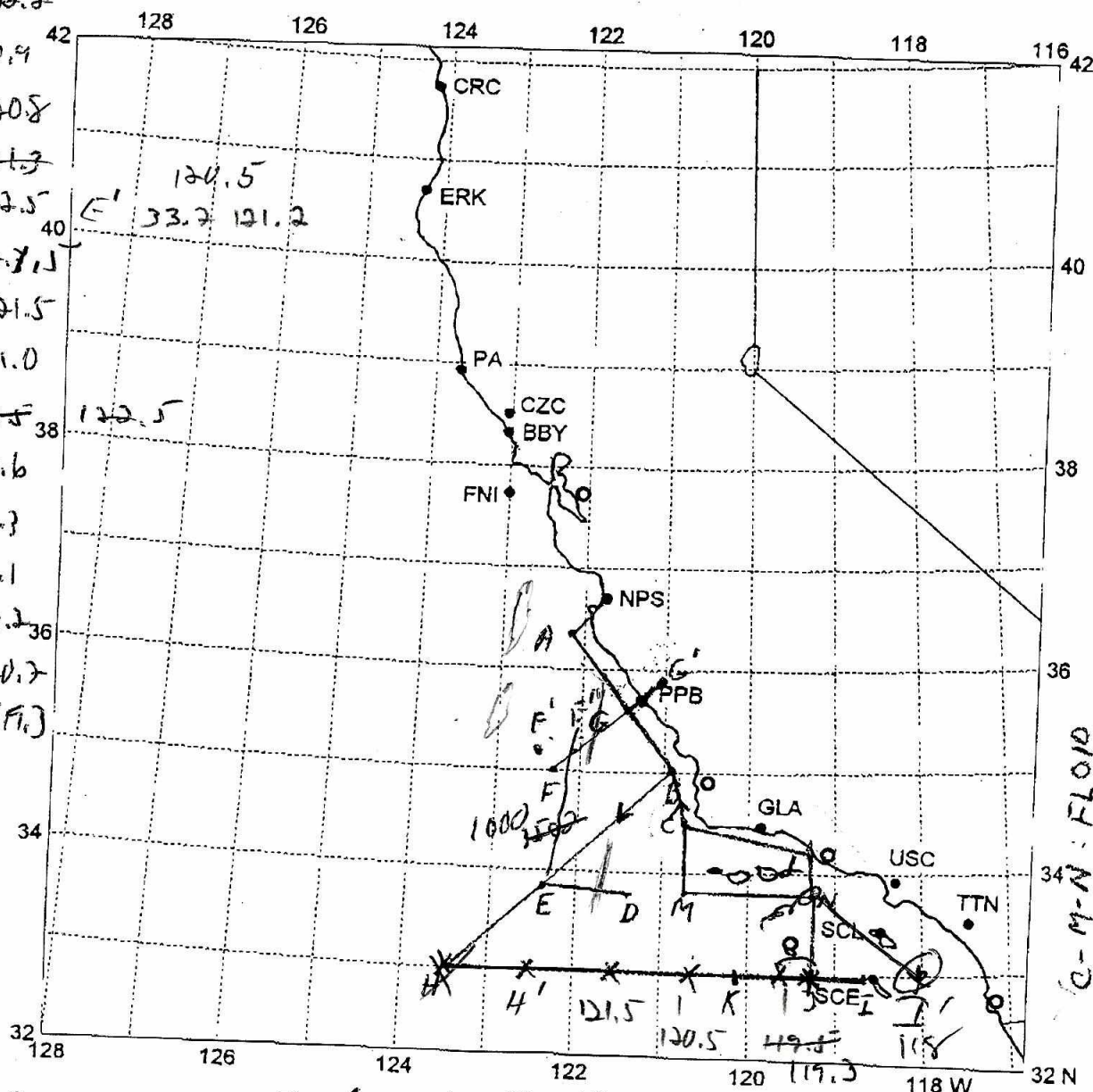
015616 Z (33.638, -119.335) 216.3° 5818m	At pt N; spiral down to FL010
020056 Z (33.602, -119.234) 21.6° 3321m	TA Bband is abt 2-2.5 km above sfc
020544 Z (33.631, -119.272) 242.6° 1272m	ATC only clearing us down to FL026
020620 Z (33.610, -119.301) 215.7° 1090m	Straitform precip with tops to 7 km
020800 Z (33.548, -119.269) 67.6° 847m	FL026; trk032
020901 Z (33.604, -119.243) 358.0° 685m	Descend to FL010; trk358
021017 Z (33.682, -119.248) 356.4° 364m	FL010; trk 356
021109 Z (33.736, -119.252) 358.0° 366m	LF tilt 2.0
021607 Z (34.052, -119.259) 359.0° 363m	Flight Director has taken over the LF radar; has in sector mode
021649 Z (34.096, -119.260) 358.8° 365m	LF now back to normal
021919 Z (34.183, -119.386) 282.0° 266m	Trk 282; begin porpoise
022008 Z (34.193, -119.441) 281.6° 228m	Touched 500 ft back up to FL040
022231 Z (34.213, -119.618) 278.7° 1263m	Touched 4000 ft back down to FL005
022347 Z (34.227, -119.717) 281.8° 461m	On back side of band now; TA only has anvil now from band; maybe a seeder-feeder to our right
022433 Z (34.237, -119.780) 280.2° 238m	Touched 500 ft; back up to 5000 ft
022640 Z (34.264, -119.942) 284.7° 1180m	Touched 4000 ft; now descending back down to 500 ft
022730 Z (34.278, -120.007) 283.9° 669m	Back in precip now; TA has an ~30 dbz Bband extending from a/c location to shore
022849 Z (34.297, -120.111) 281.3° 339m	Touched 500 ft; now back to FL040
022926 Z (34.306, -120.161) 281.4° 687m	Echo tops now about 7 km with 30 dbz embedded above Bband to left of a/c. Looks more convective there.
023040 Z (34.321, -120.256) 282.5° 1211m	Radar down
023153 Z (34.334, -120.350) 276.9° 477m	Radar back
023237 Z (34.340, -120.409) 278.9° 260m	Touched 500 ft now back to 4000 ft
023439 Z (34.366, -120.570) 283.4° 1184m	Touched 4000 ft; back down to 1000 ft
023743 Z (34.401, -120.812) 278.4° 382m	Reversing trk back to pt L; FL010
024329 Z (34.339, -120.523) 97.8° 379m	TA tops abt 7 km

024458 Z (34.328, -120.433) 98.8° 378m	40 dbz at melting layer
025831 Z (34.216, -119.581) 98.1° 380m	10-15 dbz anvil extending out from shore to a/c left; flying below anvil.
030307 Z (34.171, -119.285) 102.0° 387m	At pt L; begin spiral ascent to FL100
031130 Z (34.351, -119.255) 358.8° 3084m	Trk358;FL100
031340 Z (34.508, -119.257) .5° 3084m	Over land now; TA has very homogenous 15-20 dbz
031403 Z (34.533, -119.264) 322.3° 3051m	Reversing trk and descend to FL080
031539 Z (34.476, -119.311) 173.4° 2785m	Trk 173; FL090
031641 Z (34.410, -119.302) 172.1° 2740m	Descend to FL080
031743 Z (34.347, -119.289) 167.2° 2468m	FL080
032040 Z (34.168, -119.248) 186.8° 2408m	At pt L (again), desending to FL035 (spiral)
032359 Z (34.146, -119.308) 271.1° 1118m	FL035; rolling out on 282
032454 Z (34.158, -119.383) 282.0° 1118m	Trk 282; FL035
033307 Z (34.275, -120.022) 282.2° 1123m	Climb to FL070 (porpoise)
033524 Z (34.305, -120.203) 282.7° 2250m	Climbing on to FL080
033704 Z (34.323, -120.329) 280.3° 2487m	FL080; Trying to get clearance back down
033821 Z (34.338, -120.427) 281.9° 2433m	Descend down to FL010
033942 Z (34.353, -120.529) 278.4° 1847m	Light turb. here
034121 Z (34.371, -120.662) 279.7° 1297m	Flying thru a convective looking core - abt 30-35 dbz
034229 Z (34.383, -120.751) 281.8° 1099m	The first 10 km tops of the project to the right of a/c
034350 Z (34.394, -120.858) 272.6° 714m	Flying thru a 40 dbz core
034556 Z (34.468, -120.921) 348.6° 379m	Turning back to pt M
034814 Z (34.408, -120.977) 165.0° 379m	Trk 165; FL010;
035617 Z (33.950, -120.747) 97.3° 379m	Have turned to trk 090 to penetrate band again
035722 Z (33.941, -120.668) 97.5° 377m	>50 dbz on both TA and LF
035746 Z (33.938, -120.639) 95.8° 380m	Passing thru band

035947 Z (33.928, -120.503) 150.1° 378m	Turning to go back thru line
040215 Z (33.944, -120.630) 332.4° 388m	Trk 333; 45+ dbz on right wing
040333 Z (34.012, -120.668) 340.2° 382m	Line is now to right of a/c
040420 Z (34.056, -120.686) 340.6° 380m	Top to right of a/c is abt 8 km; 50 dbz at 10 km to right of a/c
041200 Z (34.452, -120.874) 291.6° 386m	Mod turb
041223 Z (34.466, -120.893) 337.3° 390m	ATC refused clearance to go 20 miles to E
041416 Z (34.575, -120.919) 349.2° 385m	Sloping from sfc to east, a 50 dbz cell; top 10 km
041716 Z (34.759, -120.941) 354.5° 387m	TA echo to right and left
042738 Z (35.334, -121.255) 322.3° 387m	Very little echo, mostly overhead
042835 Z (35.381, -121.300) 321.6° 415m	Climb to 6k'
043211 Z (35.561, -121.470) 321.4° 1888m	6k', descend to 1k'
043553 Z (35.738, -121.637) 321.5° 395m	1k'
043729 Z (35.819, -121.693) 1.0° 396m	Turning north, going in towards the coast thn out 50km west then to A
043829 Z (35.881, -121.692) 5.6° 394m	Turned to trk 12, going to about 4 miles out from big sur
044012 Z (35.985, -121.666) 5.4° 399m	Turned left to trk 266, will go 50 km out then to SHOEY
044717 Z (35.952, -122.145) 262.8° 395m	Radar locked up
044815 Z (35.945, -122.213) 263.5° 394m	Radats back up
045039 Z (35.928, -122.378) 264.9° 395m	Turning to SHOEY, still at 1k', trk 17
050042 Z (36.518, -122.234) 11.5° 440m	Ascend to 2000 ft
050507 Z (36.664, -122.064) 111.3° 685m	Turning on final
050531 Z (36.656, -122.043) 115.4° 685m	Stop record TA and LF
050935 Z (36.588, -121.847) 111.7° 135m	Touch down
051306 Z (36.587, -121.847) 301.2° 135m	Block-in and engine stop

IOP: 16Date and time of flight; start: 20Z end: _____Purpose of flight: Storm landfall

A 36.3 122.2
 B 35.1 120.4
 C 34.4 120.8
 D 33.8 121.3
 E 33.9 122.5
 F 35.7 122.1
 G 35.5 121.5
 G' 35.8 121.0
 H 33.1 122.5
 I 33.1 118.6
 J 33.1 119.3
 K 33.0 121.1
 L 34.2 119.2
 M 33.2 120.7
 N 33.7 119.3



744-A
 7-G: FLO10
 - spiral to FLO80
 G: FLO80
 -F: FLO80

F: descend to FLO05
 F-G: FLO05 (ascent to FLO10 during turn at G)
 G-B: FLO10
 B-E: FLO10
 E-D: Flare sked FLO10, 002, 020, 035
 E: spiral ascent to FL180

H-I: FL180, drop sonde
 I: spiral descent to FLO10
 I-K: FLO10
 K-J: Flare sked FLO02, 020, 035
 J-L: FLO10 (descent to 1000' min)
 L-C: Paraparse FLO02-050-000

FEB-16-98 MON 10:46 AM

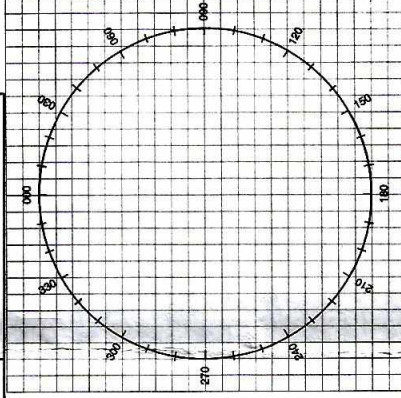
2

P. 2

10k 8k 3500 C
 B-A

[illegible]

POSITION REPORT



6. NEXT POSITION

- WE HAVE _____ ENDURANCE REMAINING

[illegible]