

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

AOCWF1

Flt ID: 030131N	From: PHNL	To: PHNL
Flt No: 03-21	Blk In: 0344Z	ATA: 0342Z
ETD: 2000Z	Blk Out: 1949Z	ATD: 2001Z
ETE:	Blk Time: 7:55 (7.9)	Flt Time: 7:41 (7.7)
Sponsor Org: NCEP	Program: WINTER STORMS	Purpose: TRACK 37

AOC Personnel

AC: McCANN	Sys Eng: SMITH
CP: FINN/POSTON	Data Sys: HORN BROOK
Nav:	Radar:
FE:	GPS/BT: BROGAN
FD: DAMIANO	Cld Phys:
Avionics:	PM PARRISH

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
NORTHWAY, M	AIR CHEM	NOAA ARL
De Gouw, J.	AIR CHEM	NOAA ARL

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

VMO-FTP

During climb out DPL drying out faster than DPR
cyro cal constants updated prior to today's flt

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AOCWF2

Flt ID: 030131N Time Off: 2001Z Time On: 0342Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1018.6	30-10/1019.1	1015.8	30-02/1016.5

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	1	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	19	18 good; 1 bad; 18 messages sent

Video

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

Remarks

Flight ID: 030131N

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Form 414-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _s	Press. Alt.	Geo. Alt.	Slc Press.	Press. Slc	Dyn. Press	Remarks
202200	2210	15604	57	49	315	29	-28.2	-51.7	9128	9517	300	300		ABV OVC/BKN CIR
204000	2320	15408	58	50	294	32	-52.7	-66.7	12466	13048	—	175.7	84.4	ABV OVC/BKN SC
205800	2451	15211	43	33	296	38	-52.0	-67.2	12468	13006	—	175.8	89.0	ABV BKN SC
210734	2545	15114	60	50	298	42	-49.7	-67.2	12468	12963	—	175.9	88.4	DROP (24)
212700	2700	14815	60	51	312	34	-47.4	-65.0	12470	12944	—	175.9	87.9	DROP (19)
214622	2815	14615	62	52	302	39	-48.7	-65.4	12471	12903	—	176.0	88.3	DROP (31)
220638	2930	14330	59	53	289	25	-47.1	-64.7	12472	12854	—	176.2	88.4	DROP (32)
221900	3028	14153	55	51	263	27	-48.5	-65.4	12478	12838	—	176.3	88.5	ABV CIR
222548	3100	14100	36	30	263	28	-48.3	-65.8	12475	12827	—	176.3	88.5	DROP NW
222724	3111	14051	—	—	—	—	—	—	—	—	—	—	—	DROP (12)
224000	3234	13938	37	30	256	34	-50.1	-67.1	12474	12786	—	176.1	88.2	ABV OVC CIR
224350	3300	13915	33	25	254	37	-50.6	-67.4	12475	12773	—	176.0	88.4	DROP (18)
230156	3516	13802	358	347	255	43	-50.1	-67.6	12473	12780	—	175.9	88.9	DROP (16)
232114	3730	13900	340	338	259	38.7	-48.3	-66.6	12473	12612	—	178.3	88.0	Drop (35)
233230	3846	13933	340	333	280	32	-44.8	-64.9	12473	12512	—	175.9	88	
234133	3945	14005	309	304	281	35.9	-46.7	-62.4	12474	12522	—	176.0	88.4	Drop (29)
2346														T to 43K
235935	4015	14230	271	270	272	28	-47	-65	13045	13151	—	159.6	79.1	Drop (22)
001715	4015	14500	262	262	272	26.3	-48	-66	13039	13157	—	159.7	78.1	Drop (42)
003452	3944	14730	233	237	276	35	-45	-64.6	13041	13168	—	159.7	78.0	Drop (19)
004955	3830	14900	211	217	271	33	-46	-64	13043	13198	—	162	78.4	Drop
010719	3645	15015	210	217	269	37	-42.7	-65	13049	13269	—	161.99	79.9	Drop (24)
012502	3500	15130	204	211	271	35	-47.9	-65.6	13052	13331	—	159.7	79.7	DROP (23)
014346	3300	15230	203	212	272	42	-55.1	-68.6	13610	14016	—	144.9	72.5	DROP (29)
020251	3100	15330	202	210	273	38	-56.5	-69.8	13614	14083	—	144.9	72.9	DROP (23)
022108	2900	15430	202	210	295	38	-56.9	-70.6	13611	14130	—	145.0	72.4	DROP (19)
025200	2524	15550	198	206	281	36	-61.2	-72.1	13624	14241	—	145.0	79.1	ABV SC
030500	2352	15626	202	207	286	28	-62.6	-72.7	13622	14274	—	145.1	79.6	ABV SC

0252 19 20.0

N49RF AVAPS DropSonde Log

N49RF Project: WINTER STORMS '03 Flight ID 030131N

Mission: _____ Flight #: RF 03 System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	OOD ☒
1	013635229	1	2107	0	24	gh		✓
2	990415240	1	2127	.5	19	gh		✓
3	013 715 044	1	2146	0	31	gh		✓
4	013 945 033	1	2206	0	32	gh		✓
5	011 345 027	1	2225	0	173	gh	Late winds / Int	✓
6	013 248 122	3	2227	0	12	gh		✓
7	012 025 116	1	2243	0	18	gh		✓
8	011 245 238	1	2301	-1.5	16	gh		✓
9	013 945 027	1	2321	0	37	gh		✓
10	992 515 736	1	2341	0	29	gh		✓
11	011 245 271	2	2359	-7	27	gh		✓
12	013 635 242	1	0017	0	42	gh		✓
13	013 945 037	2	0034	0	19	gh		✓
14	011 245 471	1	0049	0	8	gh		✓
15	013 978 151	2	0107	0	24	gh	lost winds briefly	✓
16	993 818 029	1	0125	0	22	gh		✓
17	013 635 134	1	0143	.5	24	gh		✓
18	013 968 105	1	0202	0	23	gh		✓
19	022 625 045	1	0221	0	19			
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								

001316.9
1751.4
1209.

Charge to NWS

N49RF AOC GPS Dropwindsonde Log

Flight ID 030131N

Flight Director DAmuThw

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Mission ID 06WSC

Storm TRACK37

Drop #	Drop # Serial #	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failures	Sent Time
1	0106538	210719	27.45	151.14	1022.8	0VC SC	SAAT SATCOM	1	-	2138
2	990415240	212700	27.00	148.45	1022.7	0VC SC	SAAT SATCOM	2	-	2152
3	0106538	210719	27.45	151.14	1022.8	0VC SC	SAAT SATCOM	3	-	2210
4	013945003	220638	29.30	143.30	1022.3	0VC SC/SETUP	KWBC-1323245	4	-	2233
5	013945003	220638	29.30	143.30	1022.3	0VC SC/SETUP	KWBC-1323245	5	-	2251
6	013248122	222724	31.11	140.51	1022.0	0VC CIR	KWBC-125114	6	-	2307
7	01124538	230156	35.16	138.02	1023.4	0VC CIR	KWBC-130317	7	-	2330
8	01124538	230156	35.16	138.02	1023.4	0VC CIR	KWBC-130317	8	-	2342
9	992515786	234133	39.45	140.03	1022.8	SCT SC AS	KWBC-140507	9	-	0005
10	013635242	001709	40.15	145.00	1023.8	SCT CS AS	KWBC-143950	11	-	0042
11	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	13	-	0112
12	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	14	-	0138
13	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	15	-	0148
14	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	16	-	0209
15	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	17	-	0230
16	993818029	012502	35.00	151.30	1025.0	0VC CIR	KWBC-154728	18	-	0249
17	0106538	210719	27.45	151.14	1022.8	0VC SC	SAAT SATCOM	19	-	2249
18	013945003	220638	29.30	143.30	1022.3	0VC SC/SETUP	KWBC-1323245	20	-	2251
19	013945003	220638	29.30	143.30	1022.3	0VC SC/SETUP	KWBC-1323245	21	-	2307
20	013248122	222724	31.11	140.51	1022.0	0VC CIR	KWBC-125114	22	-	2330
21	01124538	230156	35.16	138.02	1023.4	0VC CIR	KWBC-130317	23	-	2342
22	992515786	234133	39.45	140.03	1022.8	SCT SC AS	KWBC-140507	24	-	0005
23	013635242	001709	40.15	145.00	1023.8	SCT CS AS	KWBC-143950	25	-	0042
24	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	26	-	0112
25	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	27	-	0138
26	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	28	-	0148
27	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	29	-	0209
28	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	30	-	0230
29	01124547	004957	38.30	149.00	1024.9	0VC CS	KWBC-151124	31	-	0249

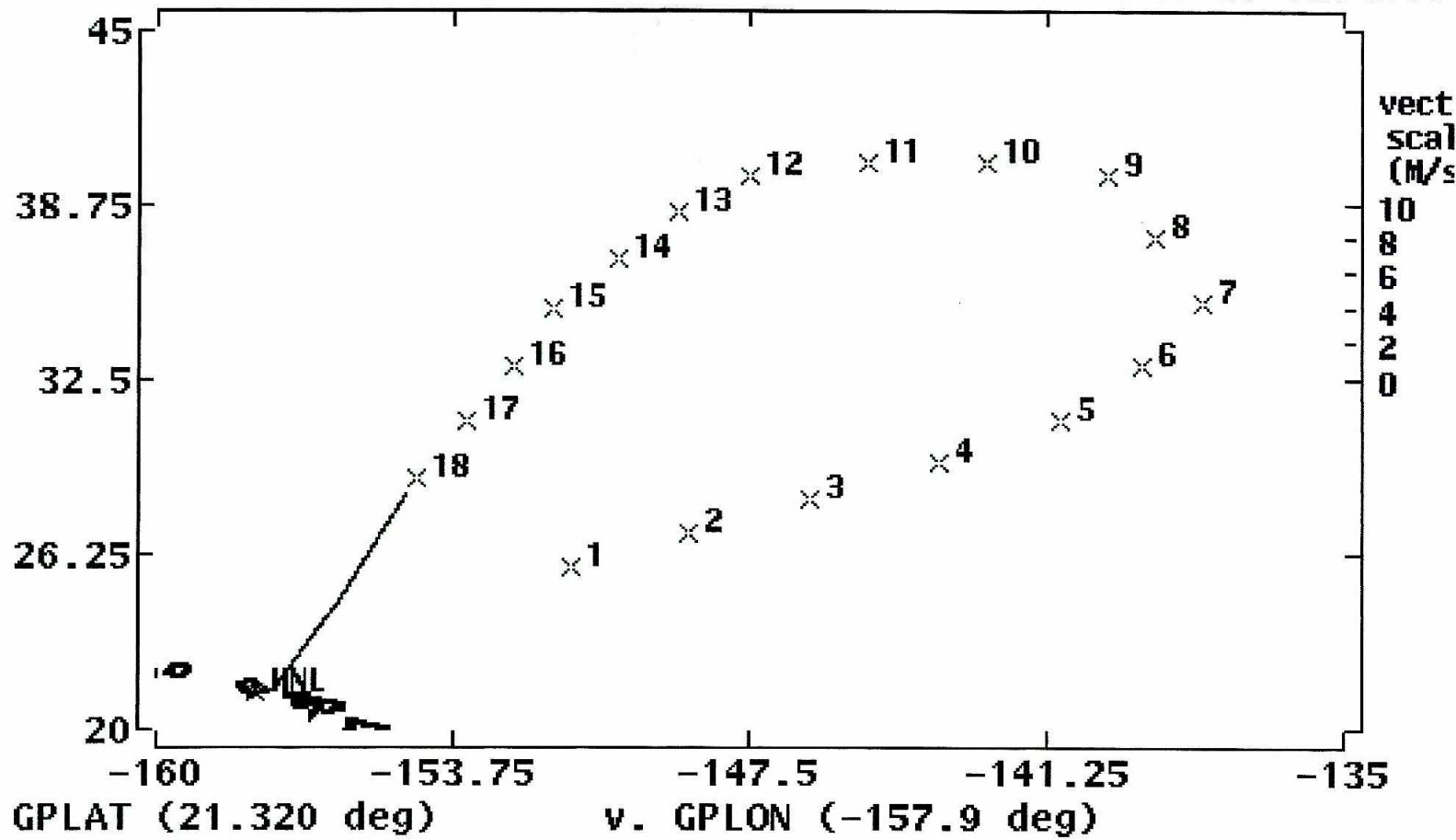
809.0

Set 1000's
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822.2

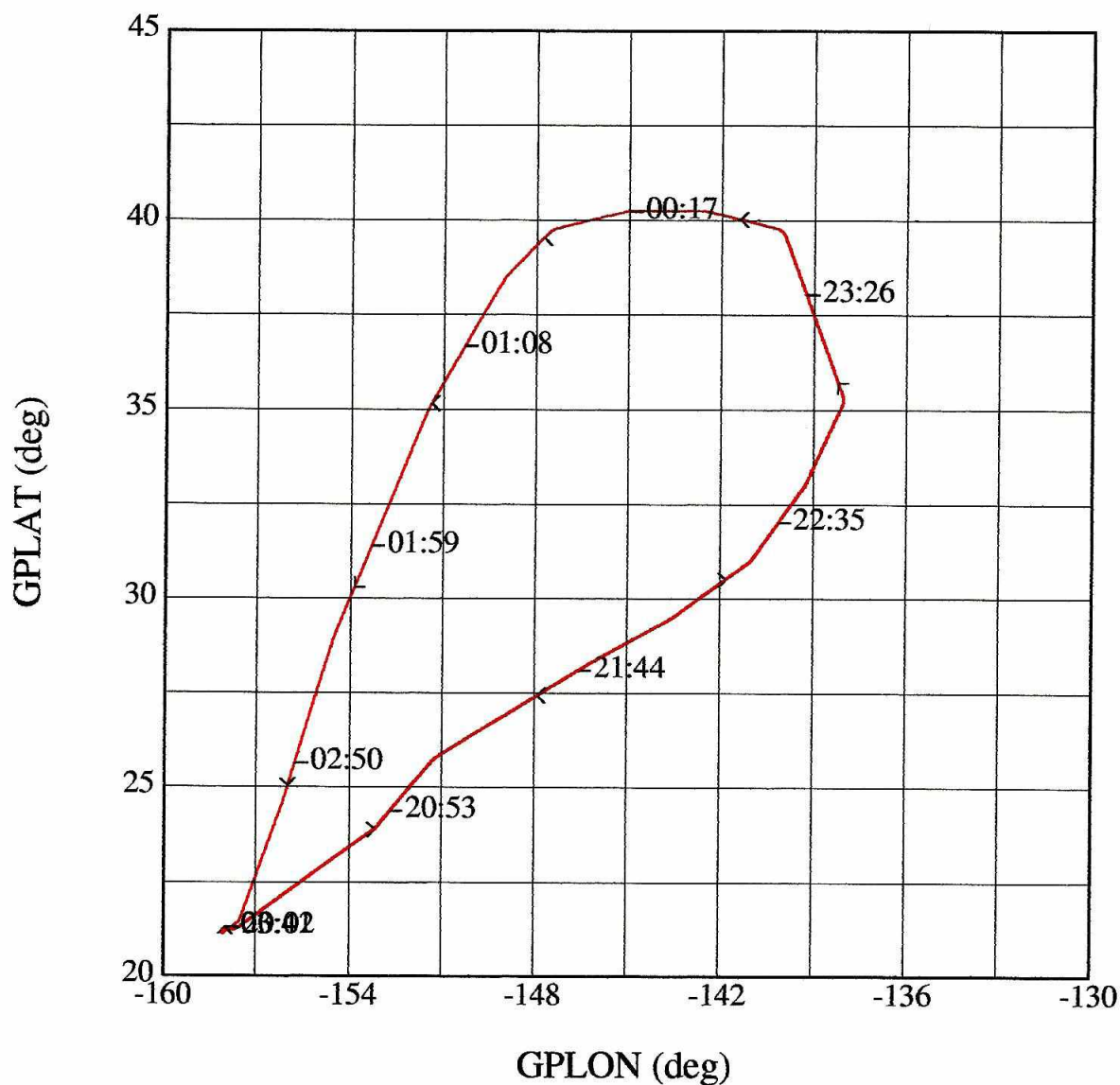
lost WWS

02:26:20 to 03:45:0



WinterStorms_2003, Flight #3

01/31/2003 UTC, 20:02:00-03:41:00



	mean	sigma	min	max
— GPLAT (deg), 1 s/sec	30.89	6.20	21.12	40.26
— GPLON (deg), 1 s/sec	-148.93	6.29	-158.09	-138.04