

03-024

G-IV Flight Summary For Flight

030213n

<u>BLOCK</u>	<u>TIMES</u>	<u>FLIGHT</u>
1947Z	←--- Block Out	1959Z
	Departure ---→	
	Arrival -----→	0332Z
0337Z	←----- Block In	

Block Time: 7.8 HRS

Flight Time: 7.6 HRS

Sponsor Org: NCEP
 Program: Winter Storms
 Purpose: WS #6, Track 37

Flight Director: Paul Flaherty - (813) 828-3310 x 3094 - paul.flaherty@noaa.gov
 AOC Crew: Finke, Poston, Finn, Hornbrook, Brogan, Smith, Hill
 Visitors: De Gaow + Northway (NOAA Aeronomy Lab)

PRESSURE

	<u>Take off</u>	<u>Landing</u>
Aircraft (mb)	1015.4	1013.9
Wx Station (mb)	1014.6	1012.5

Total Number of GPS Dropwindsondes: 18 (all good)
 Number of Flight Level Tapes Received: 1
 Back up Data (i.e. CD/Lacie Hard Drive): CD

Mission Remarks:

Sondes were good. Seemed to have a problem with Pressure during landing (see Flight data log – last entry). Spike in pressure was also reflected in several other sensors. CARCAH had trouble receiving some of our messages – but problem was found to be on their end.

Changes to/from depend table:
 None

Comments about aircraft sensors:

All sensors with the exception of what was discussed above appear to have functioned properly with only minor spikes and deviations. These spikes and deviations were typically reflected in either the pitch, roll, or sideslip of the aircraft.

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

AOCWF-1

Flt ID: 030213n	From: PHNL	To: PHNL
Flt No: 03-024	Blk In: 0337z	ATA: 0332z
ETD: 20z	Blk Out: 1947z 7+50	ATD: 1959z 7+33
ETE: 7.5 hrs	Blk Time: 7.8 hrs	Flt Time: 7.6 hrs
Sponsor Org: NCEP	Program: WINTER STORMS	Purpose: Flt #6 TRACK 37

AOC Personnel

AC: FINKE	Sys Eng: SMITH
CP: POSTON FINN	Data Sys: BROGAN
Nav:	Radar:
FE:	GPS/BT:
FD: FLAHERTY	Cld Phys:
Avionics: HORN BROOK	HILL

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
DE GOUW	VIS. SCI.	NOAA A.L.
NORTHWAY	VIS. SCI.	NOAA A.L.

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

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AOCWF2

Flt ID: 030213 n Time Off: 1959 z Time On: 0332 z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1015.4	29.96	1013.9	29.90

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	1	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	18	

Video

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

Remarks

N49RF AVAPS DropSonde Log

N49RF Project: WSR 03

Flight ID 030213N

Mission: _____ Flight #: RF06

System Status: _____

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	OOD ☒
1	014 515 083	1	2054	Ø	27	CPH		✓
2	014 515 080	3	2109	Ø	20	CPH	Telecom. int at end.	✓
3	014 335 052	1	2125	Ø	29	CPH		✓
4	014 515 079	2	2142	Ø	31	CPH		✓
5	014 335 094	1	2158	Ø	17	CPH		✓
6	014 335 050	1	2215	Ø	22	CPH		✓
7	014 335 040	1	2233	Ø	48	CPH		✓
8	014 335 038	1	2253	Ø	25	CPH		✓
9	020 615 273	1	2313	Ø	7.6	CPH		✓
10	020 615 061	1	2329	Ø	20	CPH		✓
11	025 018 078	1	2346	Ø	22	CPH		✓
12	020 615 004	1	0003	Ø	15	CPH		✓
13	020 835 013	2	0010	Ø	21	CPH		✓
14	014 515 110	1	0036	Ø	22	CPH		✓
15	014 335 031	1	0055	Ø	23	CPH		✓
16	014 415 038	1	0115	Ø	32	CPH		✓
17	014 335 042	1	0136	Ø	14	CPH	Loss winds	
18	020 615 002	1	0157	Ø	32			
19								
20								
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CHARGE ALL TO NWS

Flight ID 050613N

Flight Director

FLAHSRTY

Page ____ of ____

Mission ID 1745C

Storm WINTER STORMS FCT # 6 TRIC 37

A

COP F&E
SARZIMK

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~~28~~

(27)
(32)
(14)

CCA

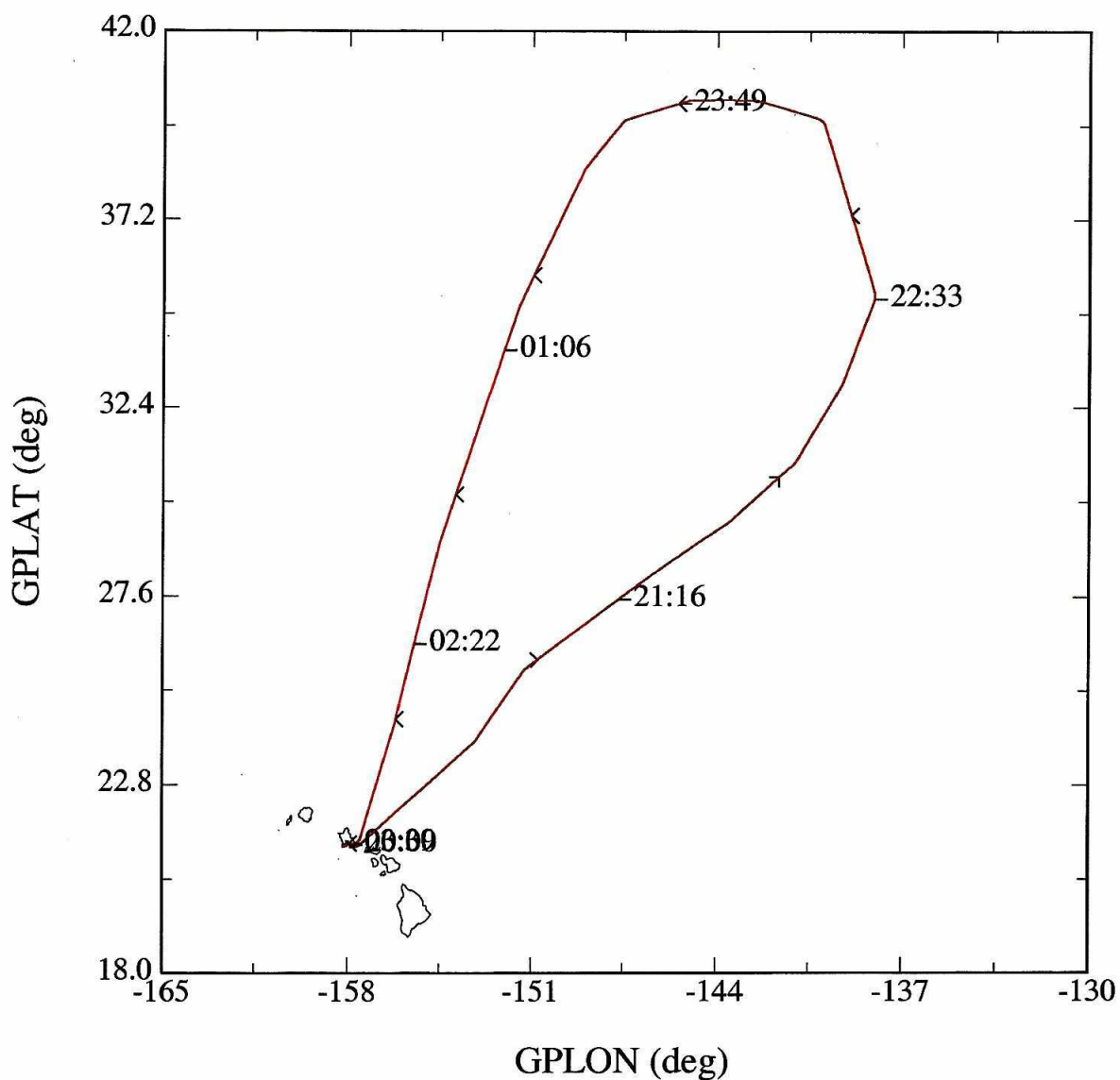
~~Car~~ Car Fee Drop 15.00 VIA SATCOM (11)

~~755NT~~ OB 13 w/ OB 16

030213n.log	Latitude	Longitude	Press	Temp	DP	WD	WS	MSL	Alt	G Alt	Head	Track	TAS	GS	V Vel	Event Comments
19:48:21	21 19.27N	157 54.78W	1016.4	24.1	16.3	48.5	6.3	18.2	18.2	231.8	229.8	0.4	6.7	-0.02	taxi	
20:02:50	21 14.02N	157 48.76W	737.0	6.4	-1.6	162.2	6.9	2703.6	2698.9	80.8	78.9	142.0	140.2	13.72	climbing	
20:17:06	22 07.16N	156 08.82W	329.1	-32.8	-36.0	244.0	43.1	8847.8	8824.3	54.8	57.2	227.7	270.4	4.97	28000 ft ^	
20:54:24	25 45.03N	151 14.23W	177.0	-56.4	-71.0	251.7	77.5	12851.6	12812.6	46.0	52.9	229.0	300.9	-0.31	Sonde Launch, Drop 1	
21:10:06	27 00.81N	148 43.35W	176.8	-56.1	-68.1	253.7	78.5	12799.2	12761.7	54.6	60.2	229.6	305.1	-0.24	Sonde Launch, Drop 2	
21:25:27	28 15.09N	146 14.79W	176.9	-55.7	-68.2	254.1	76.7	12776.7	12740.4	56.0	61.3	229.7	303.9	0.04	Sonde Launch, Drop 3	
21:42:15	29 30.78N	143 28.97W	177.2	-55.0	-67.8	258.4	72.3	12758.5	12736.6	50.3	58.1	230.1	296.5	0.04	Sonde Launch, Drop 4	
21:58:55	31 01.10N	140 59.64W	177.2	-55.2	-67.9	264.4	74.7	12693.7	12660.6	31.5	45.0	230.0	282.8	0.00	Sonde Launch, Drop 5	
22:15:43	33 00.25N	139 15.09W	177.4	-54.7	-67.2	265.5	65.3	12615.3	12584.7	15.8	30.8	230.2	261.7	0.14	Sonde Launch, Drop 6	
22:34:01	35 18.39N	138 02.46W	177.3	-50.5	-65.6	263.8	51.0	12518.0	12490.3	340.4	354.7	232.7	227.9	-0.32	Sonde Launch, Drop 7	
22:53:50	37 30.03N	139 00.04W	177.2	-53.8	-66.3	257.9	34.5	12426.5	12401.6	331.0	340.5	231.7	224.6	-0.24	Sonde Launch, Drop 8	
23:13:06	39 44.49N	140 04.25W	177.4	-50.1	-65.1	237.8	27.5	12323.9	12301.8	299.2	307.2	232.0	220.9	0.31	Sonde Launch, Drop 9	
23:29:50	40 14.92N	142 30.41W	177.3	-47.6	-63.1	240.8	25.3	12270.5	12249.2	271.2	276.2	234.6	213.5	0.19	Sonde Launch, Drop 10	
23:46:32	40 14.83N	145 00.31W	161.1	-47.9	-63.3	220.8	22.1	12833.7	12810.2	257.1	262.1	233.6	216.5	0.21	Sonde Launch, Drop 11	
00:03:59	39 43.96N	147 30.31W	161.0	-46.5	-62.3	218.8	22.0	12805.8	12781.9	234.1	237.3	232.7	211.7	-0.12	Sonde Launch, Drop 12	
00:19:24	38 27.67N	149 01.76W	161.0	-47.8	-62.7	238.3	26.9	12825.2	12799.8	211.8	210.0	234.3	210.2	0.21	Sonde Launch, Drop 13	
00:36:57	36 44.67N	150 15.27W	161.0	-48.1	-63.3	249.6	37.0	12853.8	12826.3	214.9	210.1	234.1	204.3	0.50	Sonde Launch, Drop 14	
00:55:19	34 59.80N	151 30.03W	161.0	-51.5	-64.0	253.5	38.8	12927.8	12897.9	211.7	205.9	231.0	202.9	-0.16	Sonde Launch, Drop 15	
01:15:13	32 59.50N	152 30.23W	161.0	-54.7	-66.0	253.8	43.9	13014.5	12982.1	210.5	203.4	230.0	199.5	-0.16	Sonde Launch, Drop 16	
01:35:49	30 59.96N	153 30.04W	160.9	-55.7	-67.2	251.4	56.2	13116.8	13081.8	212.7	203.5	230.3	188.8	-0.39	Sonde Launch, Drop 17	
01:58:04	28 49.15N	154 34.18W	160.8	-55.0	-67.1	257.1	57.0	13250.2	13212.3	209.0	198.5	237.1	202.3	0.02	Sonde Launch, Drop 18	
02:17:28	26 55.42N	155 16.94W	160.8	-55.0	-66.7	253.4	61.1	13353.8	13313.4	209.1	198.2	239.0	198.8	-0.10	ob	
02:36:18	25 01.23N	155 58.40W	160.8	-57.7	-67.4	253.0	69.2	13465.2	13422.3	211.0	198.4	237.5	190.6	0.34	ob	
02:57:11	22 58.92N	156 49.43W	167.8	-57.0	-68.5	255.3	64.8	13293.3	13249.5	213.8	202.6	237.8	192.5	-11.06	ob	
03:17:01	21 23.63N	157 32.33W	1084.3	3.3	4.6	205.5	13.2	3152.6	3146.9	226.7	230.0	144.5	132.3	0.18	descent	
03:34:37	21 19.43N	157 55.26W	1084.3	44.7	19.3	91.7	218.8	21.5	21.5	89.5	104.5	227.4	6.9	0.06	taxi	

WinterStorms_2002, Flight #rf06

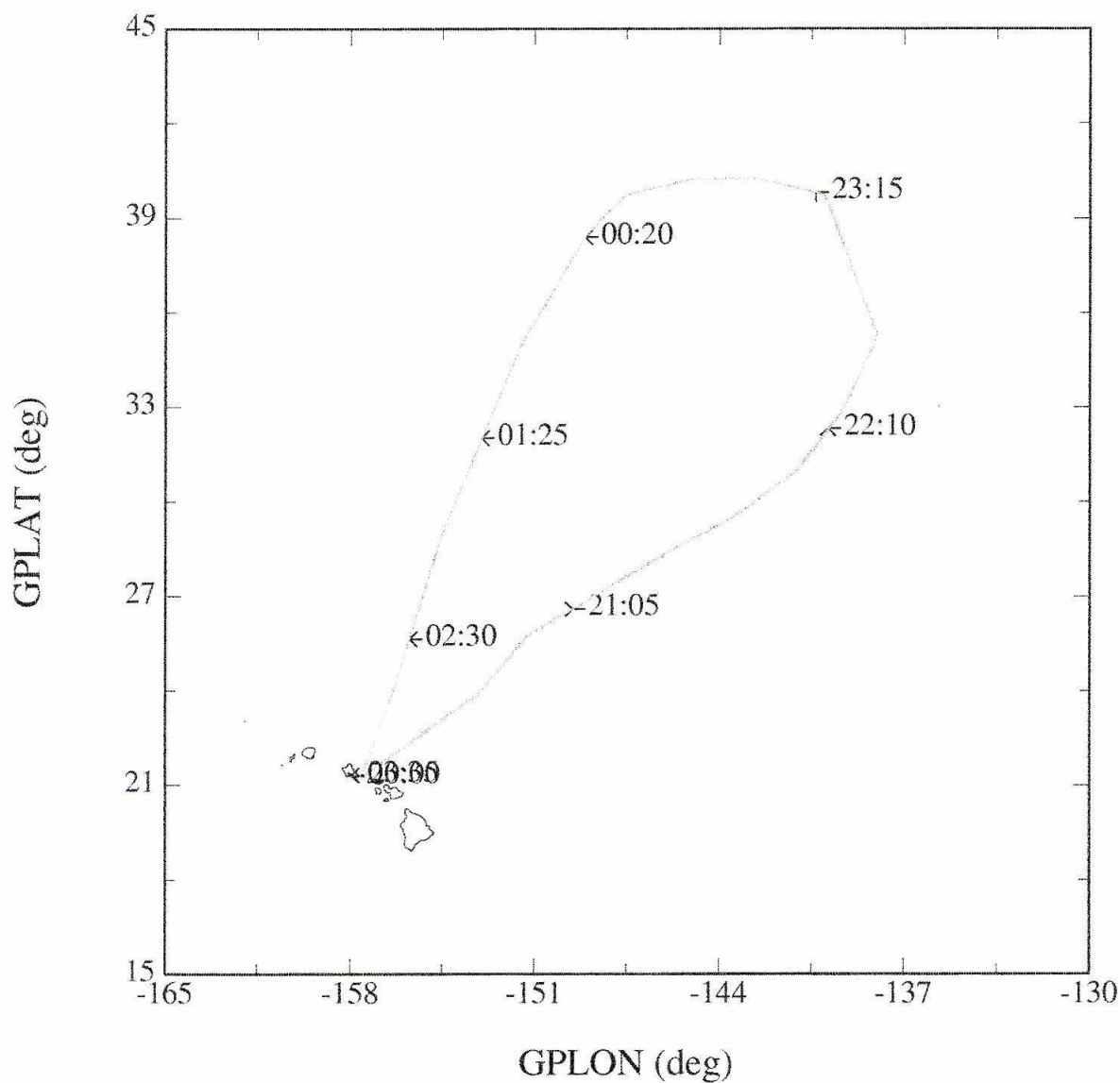
02/13/2003 UTC, 20:00:00-27:39:21



	mean	sigma	min	max
GPLAT (deg), 1 s/sec	30.74	6.27	21.22	40.26
GPLON (deg), 1 s/sec	-149.37	6.41	-158.15	-138.04

WinterStorms_2002, Flight #rf06

02/13/2003 UTC, 20:00:00-27:35:00



	mean	sigma	min	max
GPLAT (deg), 1 s/sec	30.83	6.23	21.22	40.26
GPLON (deg), 1 s/sec	-149.29	6.38	-158.15	-138.04



1174C (69-180)