

G-IV Flight Summary For Flight #03-025

Mission ID: 030217n

TIMES

<u>BLOCK</u>		<u>FLIGHT</u>
1938Z	←--- Block Out	
	Departure ---→	1950Z
	Arrival -----→	0302Z
0304Z	←----- Block In	

Block Time: 7.4 HRS

Flight Time: 7.2 HRS

Sponsor Org: NCEP
Program: Winter Storms '03

From/To: PHNL/PHNL
Purpose: WS #7, Track 55

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

PRESSURE

	<u>Take off</u>	<u>Landing</u>
Aircraft (mb)	1018.9	1018.5
Wx Station (mb)	1016.6	1016.3

Total Number of GPS Dropwindsondes: 21 (all good)
Number of Flight Level Tapes Received: 1
Back up Data (i.e. CD/Lacie Hard Drive): CD

Mission Remarks:

Sondes were good. Continued problems with communications – John Hill looking into the problem

Changes to/from depend table:

None

Comments about aircraft sensors:

All sensors 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.

DATA GAPS AT 00:16, 21:21-21:22, 21:43-21:45
00:23,

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

AOCWF1

Flt ID: 030217n	From: PHNL	To: PHNL
Flt No: 03-025	Blk In: 0304z	ATA: 0302z
ETD: 20z	Blk Out: 1938z 7+20	ATD: 1950z 7+12
ETE: 7.5	Blk Time: 7.4	Flt Time: 7.2
Sponsor Org: DESDOS NCEP	Program: WINTER STORMS '03	Purpose: FLT# 7 TRK 55

AOC Personnel

AC: FINKE ✓	Sys Eng: CARPENTER
CP: FINN ✓ POSTON ✓	Data Sys: BROGAN
Nav:	Radar:
FE: ROTVSEL	GPS/BT:
FD: FLAHERTY ✓	Cld Phys:
Avionics: HILL HILL ✓	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
WARNEKE, C ✓	VIS SCI	NOAA A.L.
NORTHWAY, M ✓	VIS SCI	NOAA A.L.

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

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

AOCWF2

Flt ID: 030217n Time Off: 1950 Z Time On: 0302 Z

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1018.9

A 3002

1018.5

A 3001

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

1

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

21

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

N49RF AVAPS DropSonde Log

N49RF Project: Winter Storms '03 Flight ID 030217N

Mission: Track 55 Flight #: RF07 System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	OOD ☒
1	014 335 021	1	2026	-.3	20	DWL	OK	✓
2	014 515 112	2	2043	0	32			✓
3	014 335 034	1	2100	0	12			✓
4	014 515 015	1	2117	-.3	9			✓
5	014 415 037	2	2134	0	16			✓
6	014 515 012	1	2151	.2	17			✓
7	014 335 033	2	2208	.3	25			✓
8	025 018 076	1	2226	.3	6			✓
9	014 515 115	2	2244	.2	20			✓
10	014 515 086	1	2303	.3	23			✓
11	014 415 036	1	2321	-.3	16			✓
12	014 335 079	1	2340	0	16			✓
13	014 335 029	1	0000	.1	14			✓
14	014 515 003	2	0017	.2	28			✓
15	014 415 026	1	0035	0	18			✓
16	014 335 018	2	0052	.2	44			✓
17	014 515 011	1	0109	0	25			✓
18	021 925 228	2	0126	.4	47			✓
19	014 335 120	1	0143	-.1	15			✓
20	014 515 007	2	0200	.2	45			✓
21	014 335 090	1	0217	0	54	✓	✓	✓
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Charge to NWS

N49RF AOC GPS Dropwindsonde Log

Flight ID 030217N

Flight Director

FLAHERTY

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Mission ID VSC 18

Storm WVZL STORMS FG # 2

Drop #	Sonde ID#	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Pres mb	Wx Cond.	Comments	OB #	SatComm Failures	Send Time (UTC)
1	014335027	202634	25.00	158.30	1022.4	ONC CT	KWB 205733	1	—	2057
2	014515112	201305	27.00	158.49	1023.1	FW SC	KWB 210244	2	—	2102
3	014335034	210001	29.00	159.09	1023.2	FW SC	KWB 212438	3	—	2125
4	014515015	211719	31.00	159.30	1022.2	FW SC	KWB 214121	4	—	2141
5	014415037	213416	33.00	159.52	1020.8	FW SC	KWB 215406	5	4	2156
6	014515012	215116	35.00	160.14	1020.5	FW SC	KWB 211917	6	—	2117
7	014335033	220843	37.00	160.38	1019.7	FW SC	KWB 220003	7	—	2231
8	025018036	222617	39.00	161.63	1016.9	FW SC	KWB 224200	8	—	2246
9	014515115	224410	41.00	161.30	1014.6	FW SC	KWB 230722	9	—	2307
10	014515086	230304	43.00	159.35	1011.7	FW SC	KWB 233002	10	—	2330
11	014415036	232148	45.00	157.30	1008.9	FW SC	KWB 234432	11	—	2344
12	014335039	234047	47.00	155.25	1011.3	FW SC	KWB 000219	12	—	0002
13	014335029	000022	41.00	153.30	1010.5	FW SC	KWB 002124	13	—	0017
14	014515003	001254	39.00	154.03	1018.4	FW SC	KWB 012235	14	—	0123
15	014415026	003510	37.00	154.44	1020.1	FW SC	KWB 012309	15	—	0124
16	014335018	005011	35.00	155.04	1020.8	FW SC	KWB 012730	16	—	0125
17	014515011	010914	33.00	155.32	1021.4	FW SC	KWB 013806	17	—	0138
18	02225228	012627	31.00	155.59	1023.3	FW SC	KWB 014850	18	—	0149
19	014335120	014326	29.00	156.22	1022.9	FW SC	KWB 020326	19	—	0204
20	014515007	020039	27.00	156.58	1022.4	FW SC	KWB 022385	20	—	0225
21	014335090	021800	25.00	157.14	1020.2	FW SC	KWB 023904	21	—	0240

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Flight ID _____ Flight Director _____ Page ____ of ____

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Mission ID _____ Storm _____

[illegible]

Winter Storms Reconnaissance Program (WSRP)

Track 55

Departure: Honolulu

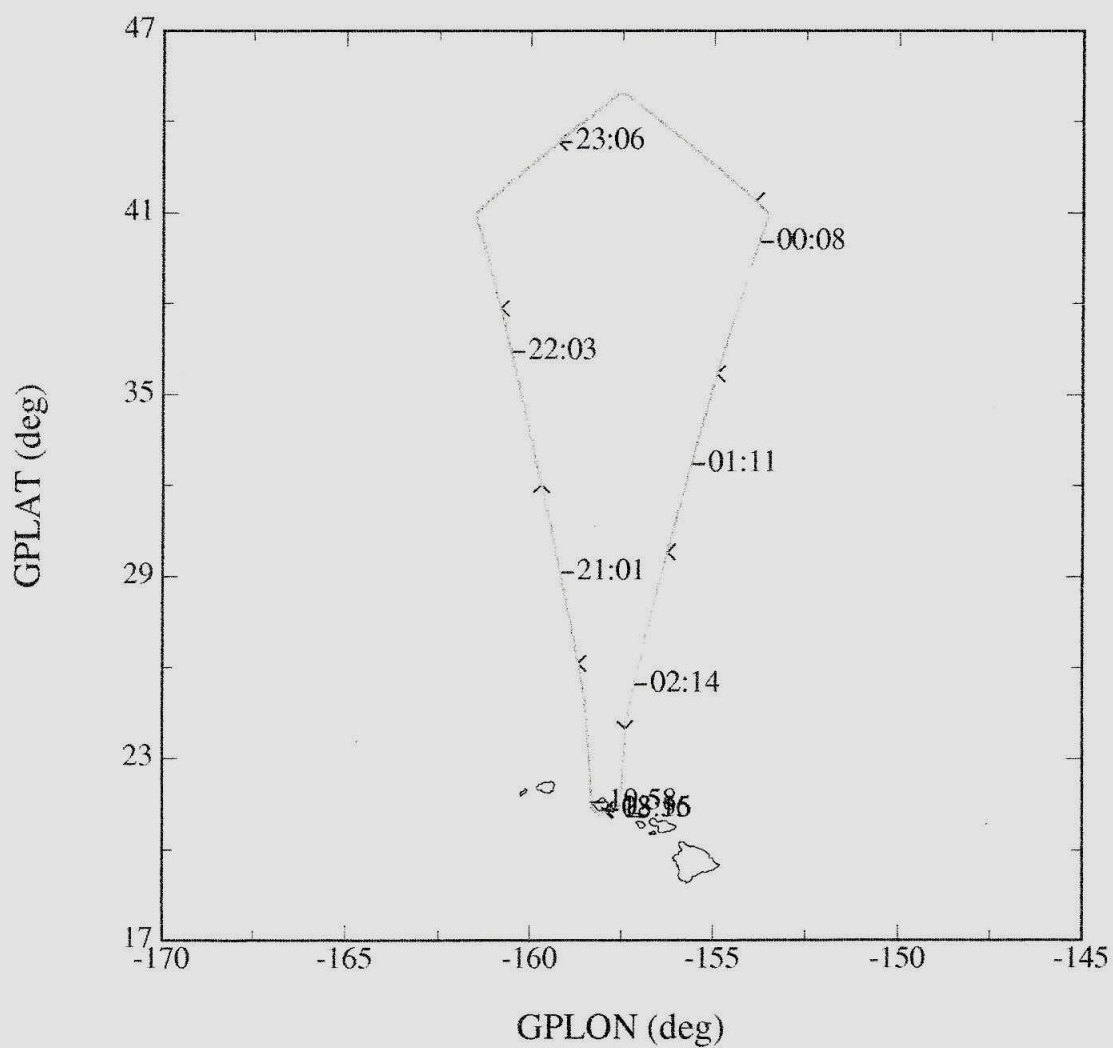
Arrival: Honolulu

Note: All points designated as "Turns" are also drops. Aircraft Commanders may change drops to turns to ensure that Air Traffic Control reporting requirements are met.

Drop 1	25 00N 158 30W
Drop 2	27 00N 158 49W
Drop 3	29 00N 159 09W
Drop 4	31 00N 159 30W
Drop 5	33 00N 159 52W
Drop 6	35 00N 160 14W
Drop 7	37 00N 160 38W
Drop 8	39 00N 161 03W
Drop 9	41 00N 161 30W
Drop 10	43 00N 159 35W
Turn # 11	45 00N 157 30W
Drop 12	43 00N 155 25W
Turn # 13	41 00N 153 30W
Drop 14	39 00N 154 03W
Drop 15	37 00N 154 34W
Drop 16	35 00N 155 04W
Drop 17	33 00N 155 32W
Drop 18	31 00N 155 59W
Drop 19	29 00N 156 25W
Drop 20	27 00N 156 50W
Turn # 21	25 00N 157 14W

WinterStorms_2002, Flight #rf07

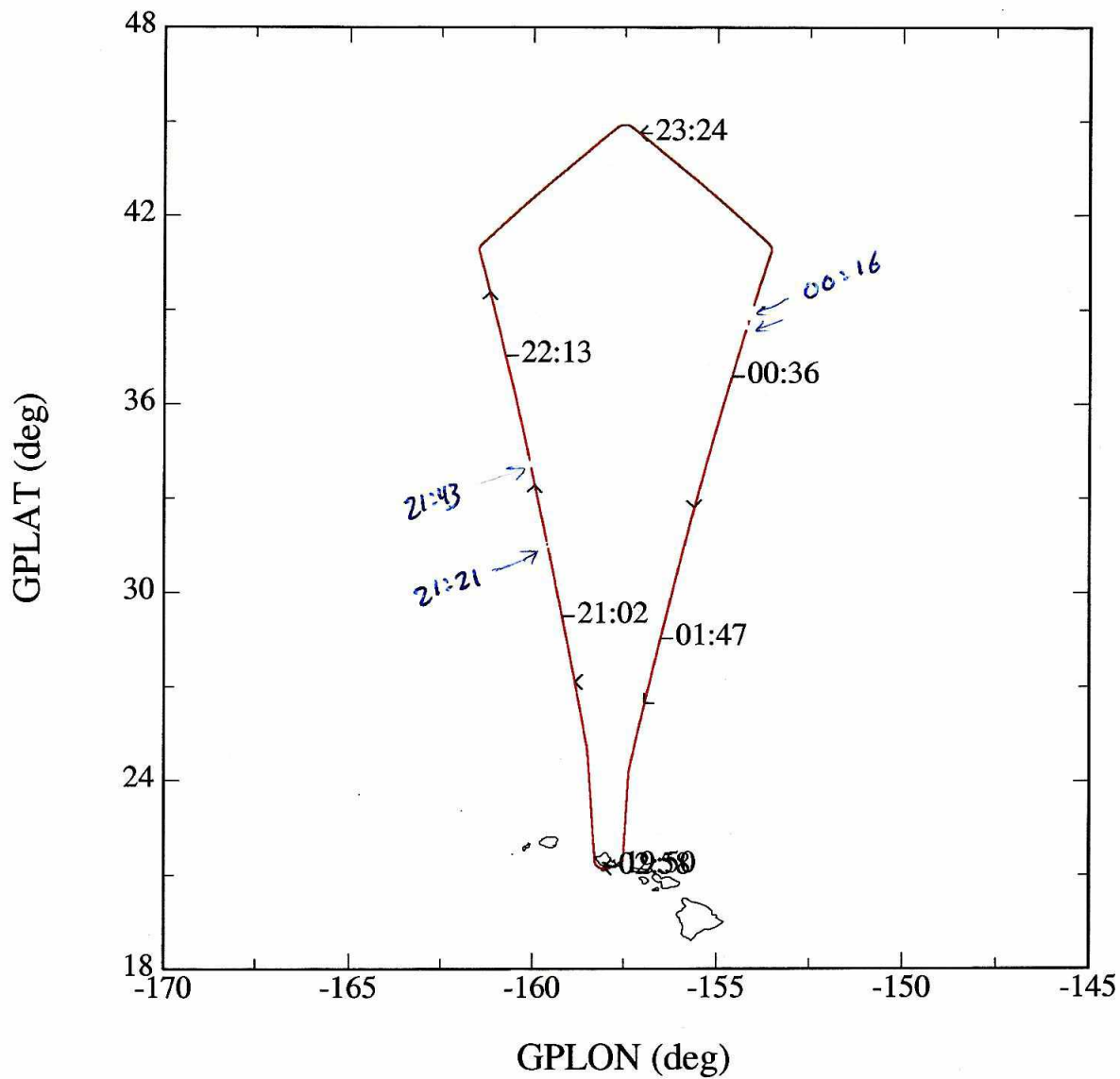
02/17/2003 UTC, 18:55:57-27:16:38



	mean	sigma	min	max
GPLAT (deg), 1 s/sec	31.20	7.78	21.15	44.90
GPLON (deg), 1 s/sec	-157.76	2.01	-161.48	-153.54

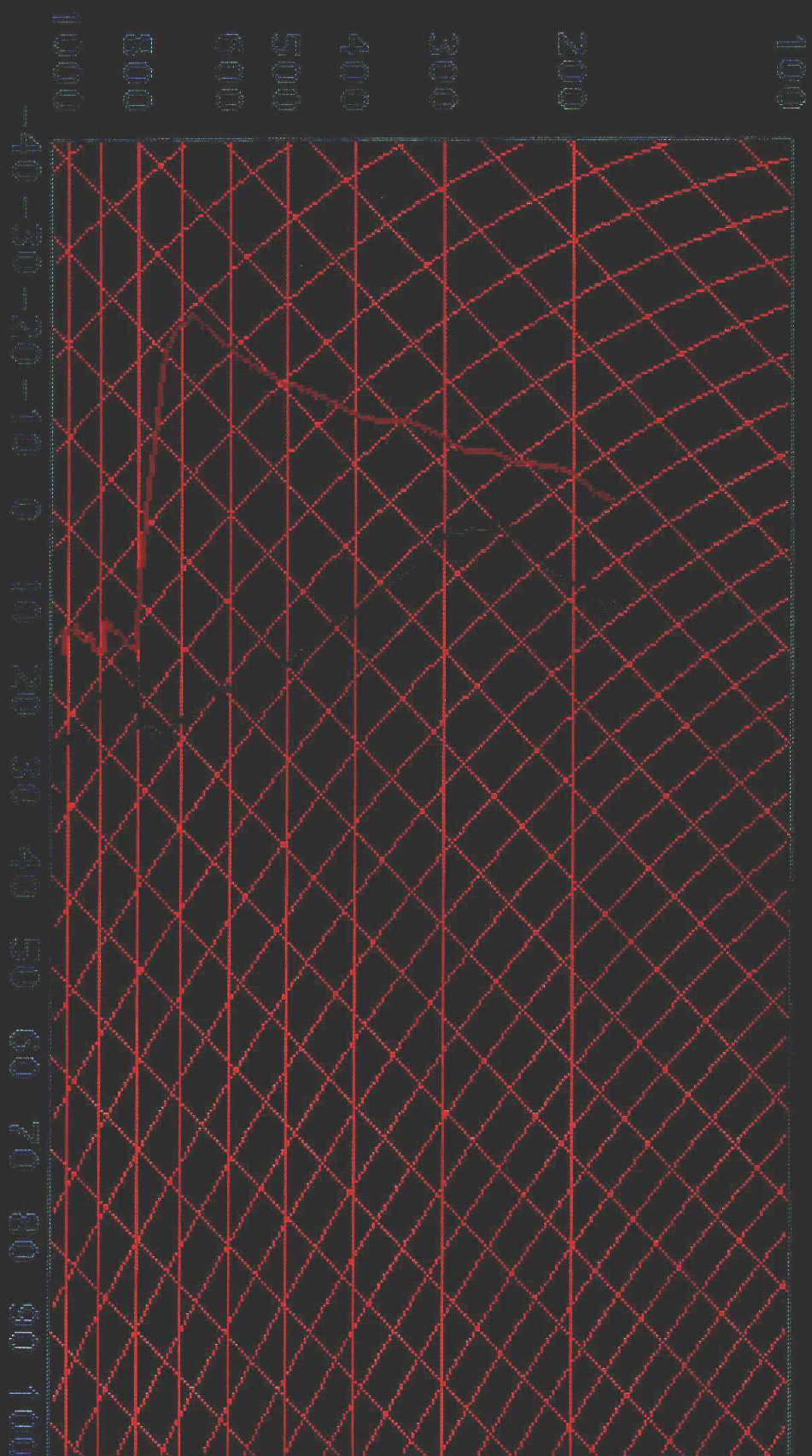
WinterStorms_2002, Flight #rf07

02/17/2003 UTC, 19:50:57-26:58:38



	mean	sigma	min	max
— GPLAT (deg), 1 s/sec	32.92	7.15	21.15	44.90
— GPLON (deg), 1 s/sec	-157.73	2.18	-161.48	-153.54

19:34:16 to 20:21:41



W. PSX (177.14 mbar)
W. PSX (-65.09 C)