

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

AOCWF1

Flt ID: 030301u	From: PHNL	To: PHNL
Flt No: 03-	Blk In: 0242	ATA: 0236
ETD: 232	Blk Out: 2244	ATD: 2313
ETE: 02302	Blk Time: 4.0	Flt Time: 3+33 3.5
Sponsor Org: NASA	Program: Satellite Validation	Purpose: ICESAT + AQUA

AOC Personnel

AC: YATES, B	Sys Eng: HILL, J
CP: MCCANN, B; FINN, M	Data Sys: CARPENTER, D
Nav:	Radar:
FE: ROTTEVEEL, K	GPS/BT: BROGAN, D
FD: WHITE, S	Cld Phys:
Avionics:	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
AVERY, M	PI	NASA

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

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AOCWF2

Flt ID: 030301 *n* Time Off: 2313 Time On: 0236

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1020.3 *n*

1019.6

~~1019.8~~

1018.3

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

1

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

10

10 good

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

"H" 2152 060/17 V10 035 gk/V 27/17 30.17 4/8 ILS
 155° 75K F430 118.3 2724
 Eng 2230

"E" 00532 0616 G22 V10 0425 ct 27/17 30.08 4/8 ILS

"M" 0153 07014 G23 V10 046 27/16 30.07 4/8 ILS

N49RF AVAPS DropSonde Log

N49RF Project: WS '03 Flight ID 030301N
 Mission: THORPEX #2 Flight #: RF14 System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	OOD ☒
1	021925038	1	2357	0	24	OK		☒
2	020615006	2	2359	0	22	OK		☒
3	021925029	3	0003	0	27	OK		☒
4	021925137	4	0006	0	64	OK	LATE WINDS	☒
5	022815097	5	0009	0	92	OK	LATE WINDS	☒
6	020615017	4	0012	0	19	OK		☒
7	021925034	7	0015	0	22	OK		☒
8	021925133	8	0020	0	19	OK		☒
9	022815086	1	0153	0	18	OK		☒
10	021925136	2	0202	0.5	20	OK		☒
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ALL CHARGE TO NASA

Flight ID 030301 M

Flight Director

WHITE, S

Page 1 of 1

Mission ID

Storm

NA 84

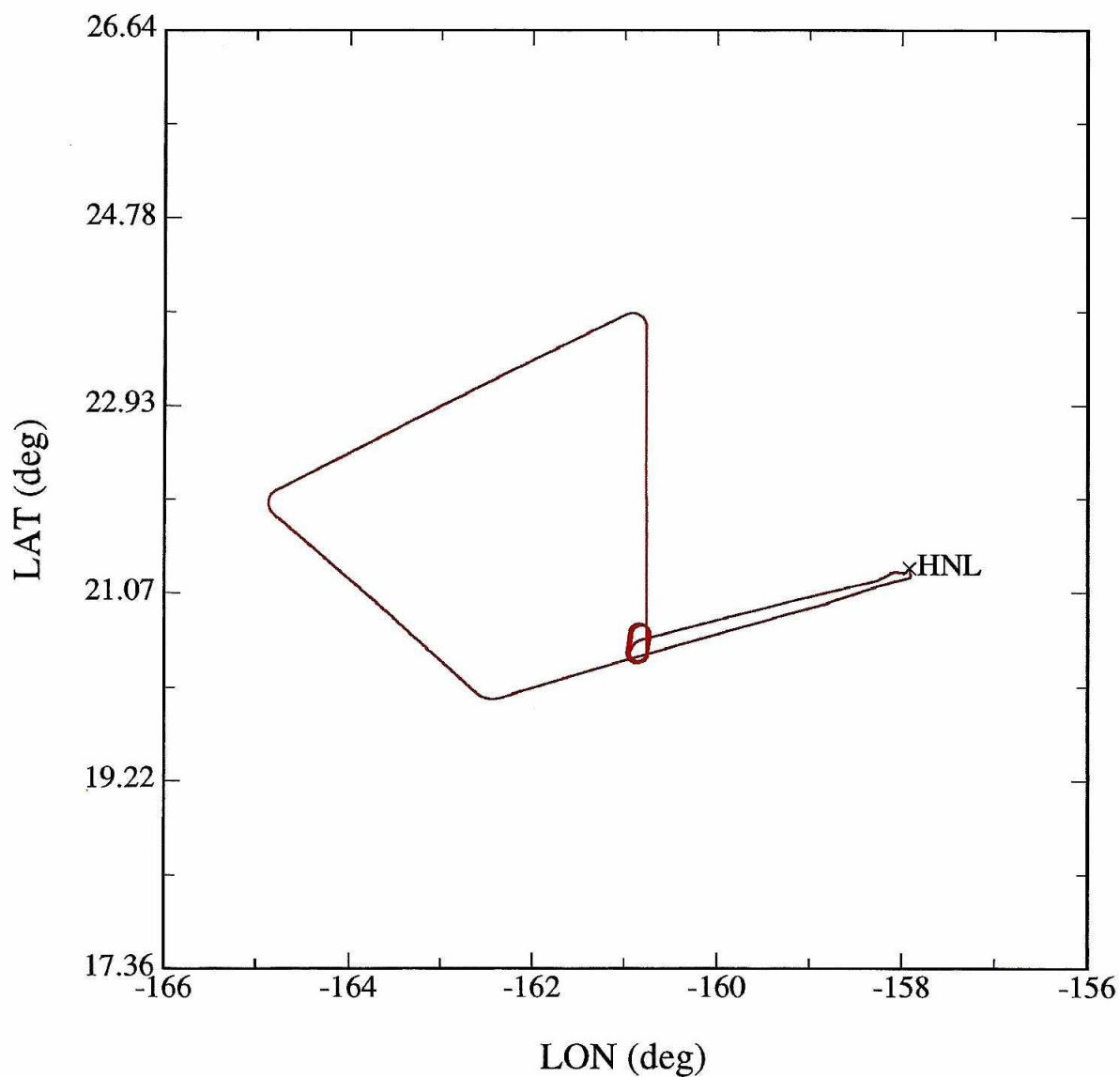
AQUA & SEASAT

5/11/19

[illegible]

WinterStorms_2003, Flight #rf14

03/01/2003 UTC, 23:13:45-26:36:18



	mean	sigma	min	max
— LAT (deg), 1 s/sec	21.30	1.01	20.03	23.84
— LON (deg), 1 s/sec	-161.15	1.77	-164.87	-157.91

030301h.log	Latitude	Longitude	Press	Temp	DP	WD	WS	MSL	Alt	G Alt	Head	Track	TAS	GS	V Vel	Event	Comments
22:30:17	21 19.29N	157 54.79W	1021.3	29.1	16.1	21.4	0.8	12.9	12.8	50.8	180.0	0.4	0.5	0.01	Engine start		
22:44:29	21 19.29N	157 54.79W	1020.9	26.7	16.4	56.5	3.0	18.2	18.2	50.4	50.2	4.6	1.5	-0.01	Taxi		
23:05:47	21 19.61N	157 56.60W	1020.5	28.3	16.1	169.0	1.4	21.6	21.6	179.4	343.5	0.4	1.0	-0.00	delayed w/o due to closed runway		
23:13:00	21 18.37N	157 55.37W	990.4	22.7	15.0	63.7	10.9	261.3	260.9	93.7	97.9	94.8	83.9	17.03	Takeoff		
23:49:40	20 13.21N	161 41.27W	161.2	-60.4	-67.3	295.7	32.6	13715.3	13666.8	258.6	254.0	221.3	195.8	0.33	level at FL430		
23:57:15	20 02.60N	162 30.31W	161.2	-61.0	-68.2	294.9	33.3	13729.5	13680.8	285.9	285.0	220.6	187.6	0.25	Sonde Launch, Drop 1		
00:00:07	20 12.60N	162 45.37W	161.2	-61.0	-68.5	293.8	34.0	13737.3	13688.7	307.3	311.0	220.6	187.9	0.21	Sonde Launch, Drop 2		
00:03:13	20 25.03N	163 00.65W	161.2	-61.1	-68.8	291.9	33.9	13726.1	13677.7	306.7	310.8	222.7	190.3	0.31	Sonde Launch, Drop 3		
00:06:07	20 36.97N	163 15.41W	160.9	-61.3	-69.0	291.3	34.6	13736.0	13687.7	306.8	310.7	227.3	194.4	0.16	Sonde Launch, Drop 4		
00:09:09	20 49.44N	163 30.91W	160.9	-61.3	-69.0	291.2	34.4	13735.2	13687.1	306.7	310.6	227.0	194.2	0.15	Sonde Launch, Drop 5		
00:12:10	21 01.80N	163 46.35W	160.8	-61.5	-69.1	292.6	33.8	13738.2	13690.3	306.7	310.5	226.4	193.8	0.06	Sonde Launch, Drop 6		
00:15:30	21 15.47N	164 03.50W	160.8	-61.5	-69.2	293.1	34.0	13731.2	13683.5	306.7	310.3	226.8	194.0	0.02	Sonde Launch, Drop 7		
00:20:12	21 34.69N	164 27.76W	160.7	-61.1	-69.3	290.5	34.4	13725.4	13678.0	306.2	310.1	227.1	194.4	-0.05	Sonde Launch, Drop 8		
00:26:55	22 06.38N	164 46.75W	160.4	-61.1	-69.3	295.9	32.0	13731.1	13684.2	56.0	63.4	228.1	246.2	0.89	end leg turning toward Thoma		
00:59:13	23 45.19N	160 45.90W	161.2	-60.7	-70.3	304.7	37.9	13655.6	13610.6	174.9	167.6	218.4	244.5	0.00	turning south for 20 30N 160 45W		
01:25:06	20 28.29N	160 45.05W	161.0	-60.0	-70.1	295.9	29.8	13699.5	13651.3	196.4	187.4	205.1	212.6	0.46	arrived at 20 30N		
01:53:25	20 26.32N	160 46.40W	160.3	-60.3	-71.2	297.8	33.4	13717.5	13669.2	228.8	218.6	196.0	187.0	-0.42	Sonde Launch, Drop 9		
02:02:31	20 26.32N	160 46.37W	160.3	-60.3	-70.8	299.1	33.3	13737.3	13688.9	228.8	218.4	195.3	187.1	-0.10	Sonde Launch, Drop 10		
02:11:00	20 46.48N	160 14.77W	160.6	-59.4	-69.6	311.2	34.0	13722.9	13674.9	67.9	76.1	235.1	252.8	-3.07	descending to 6K		
02:36:27	21 19.52N	157 56.31W	1019.9	27.4	15.6	57.4	6.1	21.3	21.3	87.7	90.0	55.9	50.6	-0.19	landing		
02:42:20	21 19.13N	157 55.10W	1019.8	27.1	15.1	86.6	1.7	20.7	20.7	53.1	276.5	0.4	1.4	0.02	stopped		

PILOT JIM		DATE OF TAKEOFF 03/01/2003		SCHED T/O 12:00:00 Z		ACTUAL T/O		LAND		FLIGHT TIME		ALT C	
SORTIE NUMBER		OPS NUMBER		LOG NUMBER		MISSION EQUIPMENT							
Takeoff Time (Z): 00:00				Fuel Load: 1553				Fuel On Board: 09+19					
Land Time (Z):				Fuel Used: 922									
Sched Duration : 04+21				Remarks:									
WP#	FIX REMARKS	TAC VOR	LATITUDE LONGITUDE	MC MH	TAS GS	DIST LEG TOTAL	TIME LEG TOTAL	FUEL LEG RMNG	ETA ATA	REMARKS			
1	PHIK/A HONOLULU INTL		N 21 18.96 W157 55.60	043 043		0 0	+00.0 +00.0	10 1543					
2	OPACA/W HNL/R207028	095X 114.80	N 20 56.34 W158 14.24	221 221	N/A N/A	38 38	+07.6 +07.6	75 1468					
	.level off		N 20 59.81 W159 37.64	263 263	N/A N/A	78 116	+15.7 +23.2	157 1311					
3			N 21 06.94 W162 41.68	263 263	400 400	172 288	+25.9 +49.1	78 1233					
A 4			N 21 13.11 W162 48.19	331 331	400 400	9 298	+01.4 +50.5	4 1229					
B 5			N 22 32.29 W163 06.88	338 338	400 400	81 378	+12.1 01+02.6	36 1193					
C 6			N 22 35.93 W162 54.21	121 121	400 400	17 396	+02.6 01+05.2	8 1185					
D 7			N 21 16.01 W162 34.74	158 158	400 400	82 478	+12.3 01+17.5	37 1148					
A 8			N 21 13.11 W162 48.19	301 301	400 400	19 496	+02.8 01+20.3	8 1140					
B 9			N 22 32.29 W163 06.88	339 339	400 400	81 577	+12.2 01+32.4	36 1104					
C 10			N 22 35.93 W162 54.21	120 120	400 400	17 595	+02.6 01+35.0	8 1096					
D 11			N 21 16.01 W162 34.74	158 158	400 400	82 677	+12.3 01+47.3	37 1059					
A 12			N 21 13.11 W162 48.19	301 301	400 400	18 695	+02.8 01+50.1	8 1051					
B 13	<i>Aqua overpass 0010UTC</i>		N 22 32.29 W163 06.88	339 339	400 400	81 776	+12.2 02+02.3	36 1015					
14			N 16 49.53 W161 29.97	157 157	400 400	371 1147	+55.7 02+57.9	167 848					
15	<i>Begin ICRSat Ime</i>		N 16 54.85 W161 16.80	005 005	400 400	21 1168	+03.2 03+01.1	9 839					
16			N 17 43.43 W161 09.84	358 358	400 400	49 1217	+07.3 03+08.4	22 817					
17			N 18 31.99 W161 02.82	358 358	400 400	49 1266	+07.3 03+15.7	22 795					
18	<i>ICRSat overpass 0154 UTC</i>		N 19 20.56 W160 55.80	358 358	400 400	49 1315	+07.3 03+23.1	22 773					
19			N 20 09.11 W160 48.72	358 358	400 400	49 1364	+07.3 03+30.4	22 751					

WP#	FIX REMARKS	TAC VOR	LATITUDE LONGITUDE	MC MH	TAS GS	DIST LEG TOTAL	TIME LEG TOTAL	FUEL LEG RMNG	ETA ATA	REMARKS
20			N 20 57.67 W160 41.64	358 358	400 400	49 1413	+07.3 03+37.7	22 729		
21	End Icksat Ime		N 21 46.21 W160 34.50	358 358	400 400	49 1461	+07.3 03+45.0	22 707		
	.descent pt		N 21 52.08 W160 11.64	077 077	400 400	24 1485	+03.6 03+48.6	11 696		
22	SOK/R SOUTH KAUAI	101X 115.40	N 21 54.02 W159 31.73	077 077	N/A N/A	37 1522	+09.1 03+57.7	18 678		
23	BOOKE/W BOOKE		N 21 27.79 W158 26.99	104 104	N/A N/A	66 1588	+15.9 04+13.6	32 646		
24	SHIGI/W SHIGI		N 21 18.25 W158 10.29	111 111	N/A N/A	18 1606	+04.4 04+18.1	9 637		
25	PHIK/A HONOLULU INTL		N 21 18.96 W157 55.60	071 071	N/A N/A	14 1620	+03.1 04+21.1	6 631		

ER-2 MISSION PLAN (COMPUTER GENERATED) C:\PFPS\data\Routes\ROUTE2.RTE

DATE CREATED 2003030101

WAFC WASHINGTON
FIXED TIME FORECAST CHART
ICAO AREA F SIG WX
FL 250-630
VALID 00 UTC 02 MAR 2003
000 IMPLY MOD OR SEV TURB, ICE AND HAZL
WGT IN FLIGHT LEVELS, SPEEDS IN KNOTS
CHECK SIGMENTS FOR VOLCANIC ASH

