

NOAA G-IV N49RF ERROR SUMMARY
WINTER STORMS 2011
4 Mar 2011 TRACK 44 (36WSC)
NCEP (PWT) PHNL →PHNL

Flight ID: 20110304N1

<u>Sensor or system</u>	<u>Number or Name</u>
Accelerometer	AccZI.1
Altitude	AltGPS.3
Attack Angle	AA.2
Dew Point Probe	TD.2
Dynamic Pressure	PQF.2
Geopotential Altitude	AltGPS.3
Inertial Selected	INE1
Static Pressure	PSF.2
Slip Angle	SA.2
Temperature Probe	TTM.1
True Airspeed	TASF.3
Constants File	49cal102
Flight Directory	acdata/2011/MET/20110304N1

Local Met Data	Takeoff (1945z)	Landing (0231z)
Aircraft Static Pressure	1011.2 mb	1010.9 mb
Tower Pressure (corrected)	1012.7 mb	1012.3 mb

Notes:

There was a glitch in the AAMPS data system that caused a data gap for all analog and inertial data beginning 8 seconds after 00z that lasted 46 seconds.

Other than the interval described above: The only other data gaps were in AltRa.1 from the APN-232 radar altimeter:

20:04:11-20:04:53z (multiple gaps during this interval during climbout)

20:27:55- 22:06:42z (seven one second dropouts during this interval during cruise)

In creation of higher MET parameters, PDAAlphaF.2 was selected (under Attack Pressure Probe Selection choices) to utilize AA.2.

GDIFF check: Mean of 1080 meters of drift for INE #1 (with respect to the Novatel)
1851 meters for INE#2. In creation of higher MET parameters, INE #1 selected.

The Left Dew Point sensor (TD.1) again read far too high through the entire flight. TD.2 did a reasonably good job but is also too high during the cruise portion of flight at or above 41,000 feet (where sondes suggest an RH near 5% and the dew points generated by TD.2 yield an RH around 30%).

TTM.3 displayed an oscillation of around 0.4C to 0.5C (with a period varying from about 2.5 minutes early in the mission to over 6 minutes in the last two hours of the mission) during cruise above 41K. TTM.1 is the default.

Vertical Winds showed a small high bias during the cruise portion of flight (with a mean UWZ.1 of +0.07 during a 5 hour interval from 20:26-01:23z).

All other flight level instruments worked optimally during the flight.

- 14 drop points assigned by NCEP
- 15 AVAPS II dropsondes deployed, 1 Fast Fall (2027z Drop Pt #1) Backup was good
- 14 drops good and transmitted for ingestion into 05/0000z model runs

Flight Director: Jessica Williams (813) 828-3310 ext. 3140 and LCDR Nancy Ash

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 20110304N1	From: PHNL	To: PHNL
FLT #: 11-040	Blk In: 0243 Z	Lnd Time(on): 0231 Z
ETD: 2000 Z	Blk Out: 1938 Z	T/O Time (off): 1945 Z
ETE: 6.5	Total Blk: 7.1	Total Flt: 6.8
Sponsoring Org: NCEP	Program: WSR	Purpose: SURV

AOC Flight Crew

Aircraft Commander: Twining	Data System: Rogers
Co-Pilot: Toth 1	Avaps: Paul, Smith
Navigator: 1	System Engineer: Goldstein
Flight Eng: 1	AA:
Flt Director: Ash, Williams	AA:
Avionics:	Crew Chief:

Participating Scientists, Visitors, & Add'l Aircrew on back.

of people listed on back: 8

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1010.4		1010.9	

ATIS - Takeoff	041853Z 00R 25010KT 10SM -RA FEW027 SCT039 BKN065 24/23
ATIS - Land	050153Z 28008KT 10SM -RA FEW022 BKN036 BKN049 23/22 A2990

Data Source	Number	Data Disposition / Date / Quality / File Name(s)
Flight Level Tapes		
Radar Tapes		
Dropsondes	15	Good: 14 Bad: 1 Sent: 14
AXBT		

List other data sources on back in Remarks section.

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)	Recco Times:	Fix #	Fix Time
Storm Name: _____			
Mission ID: 0909 36W3C track 44			

YOKOTA WX

374055.weather@yokota.af.mil
PMSV 344.6

STA
1012.7
1012.3

24/23
A2991
2990

N49RF AOC GPS Dropwindsonde Log

Flight/D: 20110304N

Flight Director: Ash Williams

Mission ID: 10009 36wsc

Storm/Track: Track 44

Pg 1 of 1

[illegible]

Track 44

14 points

t/o wx:

wd:

041800

23010KT

P6SM

vesh bkn025 bkn050

2000

ws:

clouds:

turb:

Central us winter storm - high
west coast popn - low

noaa 9 36wsc track 44

Outbound:

wd:

in flight winds
SW 50-130 KTS

ws:

clouds:

turb:

Inbound:

wd:

ws:

clouds:

turb:

landing wx:

wd:

042200

28010GZZKT

5SM RA BR

SCT 010
OVC 025

ws:

clouds:

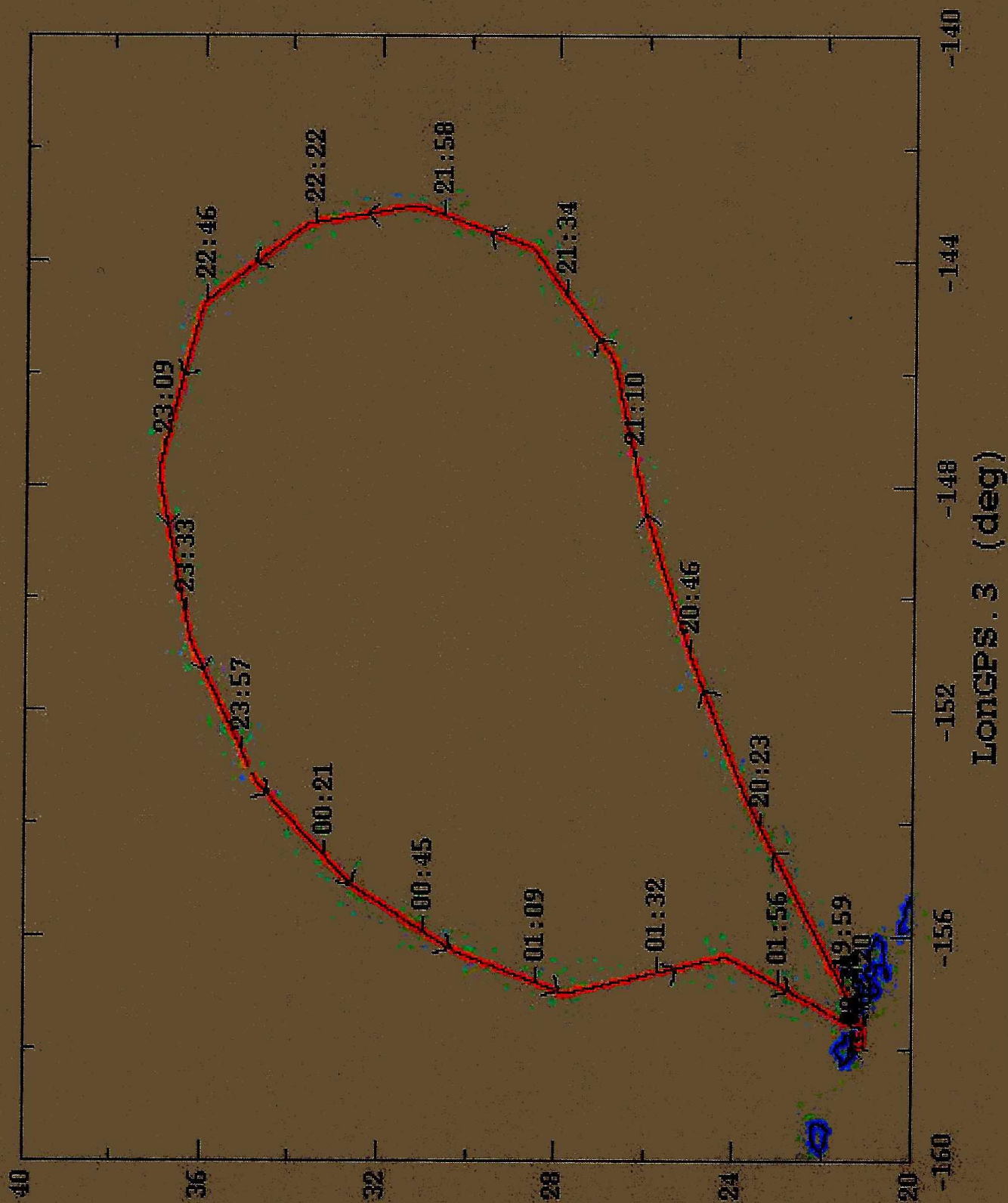
turb:

local conditions:

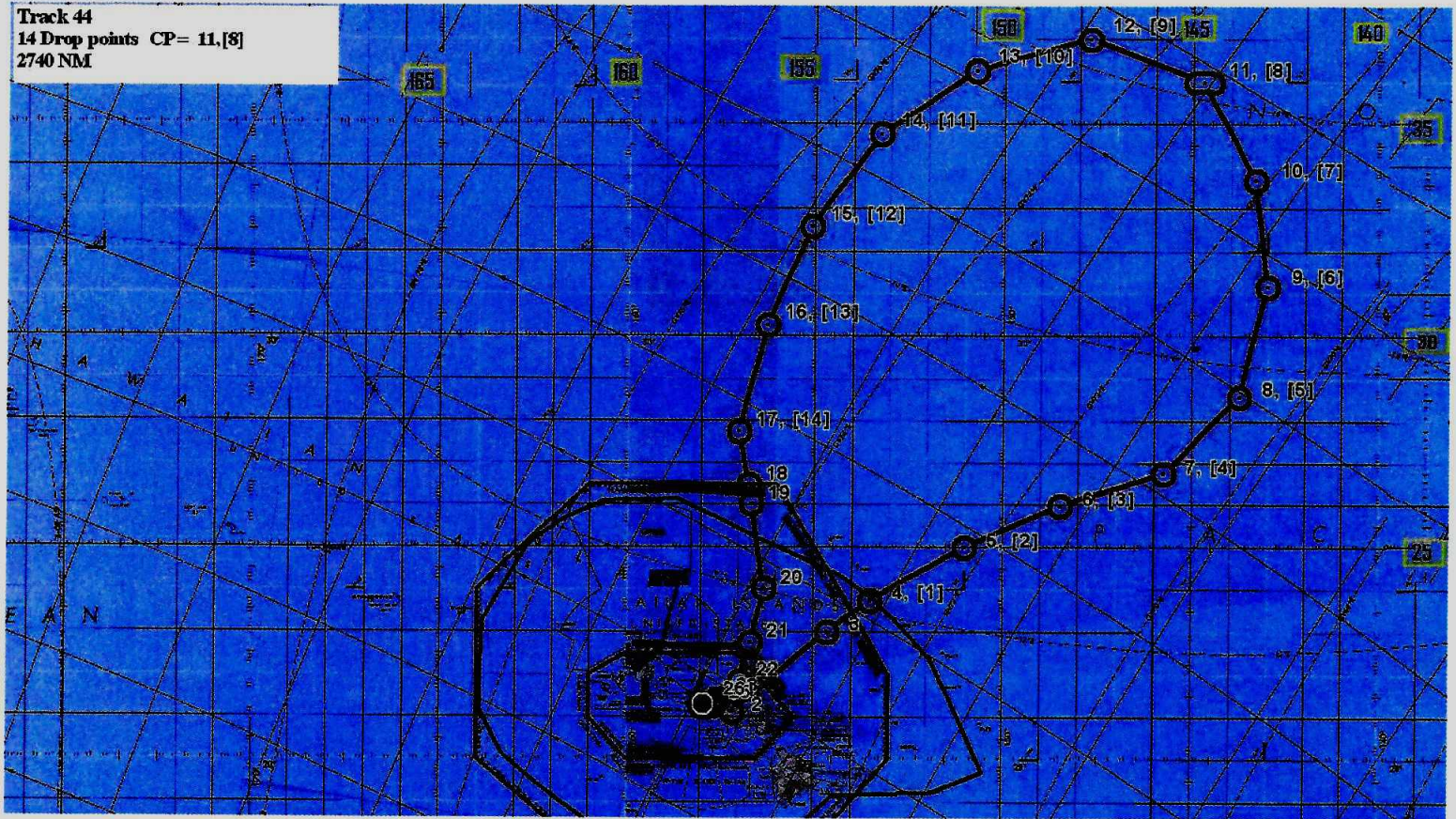
Sea Salt:

Volcanic Ash:

03/04/2011, 19:11:30-26:44:24



Track 44
14 Drop points CP= 11,[8]
2740 NM



1- 29 AK

31-56 hawaii tracks

68-90 Japan

57-67-Atlantic tracks