

**NOAA G-IV N49RF ERROR SUMMARY**  
**WINTER STORMS 2011**  
**16 Feb 2011 Modified TRACK69 (23WSW)**  
**NCEP (PWT) RJTY →RJTY**

**Flight ID: 20110216N1**

<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.1
Temperature Probe	TTM.3
True Airspeed	TASF.3
Constants File	49cal102
Flight Directory	acdata/2011/MET/20110216N1

Local Met Data	Takeoff (0733z)	Landing (1539z)
Aircraft Static Pressure	1008.7 mb	1010.2 mb
Tower Pressure (corrected)	1009.5 mb	1009.8 mb

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**Notes:**

The only data gaps were two intervals in AltRa.1 from the APN-232 radar altimeter:  
07:46:57-07:47:30z (multiple gaps during this interval)  
15:09:14z

The ALTPA.1 (NACA Pressure Altitude) ran about 60 meters lower than a tight clustering of Air Data Computer and ADC Baro Corrected sources.

Angle of Attack sources: AaADDU.1 (from the Air Data Computer) was consistently about 0.6 degrees higher than either AA.1 or AA.2, or AaADDU.2. Spike in AA.1 during takeoff roll at 7:32:31 from -118 to +23 degrees. Similar AA.1 spike during landing rollout at 15:39:15z from -234 to +56 degrees. In creation of higher MET parameters, PDAalphaF.2 was selected (under Attack Pressure Probe Selection choices) to utilize AA.2.

GDIFF check: Mean of 3031 meters of drift for INE #1 (with respect to the Novatel) 3739 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 25%).

Vertical Winds showed a small low bias during the cruise portion of flight (with a mean UWZ.1 of -0.19).

All other flight level instruments worked optimally during the flight.

- 13 drop points assigned by NCEP
- 13 AVAPS II dropsondes deployed
- All 13 were good and all 13 coded surface winds.

Flight Director: Richard Henning (813) 828-3310 ext. 3086

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

FLT ID: 20110216N1	From: RJTY	To: RJTY
FLT #: 11-33	Blk In: 1542 Z	Lnd Time(on): 1539 Z
ETD: 0730 Z	Blk Out: 0728 Z	T/O Time (off): 0733 Z
ETE: 8+00	Total Blk: 8.2	Total Flt: 8.1
Sponsoring Org: NCEP	Program: PWT (WSR11)	Purpose: TRACK69 MOD

## AOC Flight Crew

Aircraft Commander: TWINING	Data System: ROLES GOLDSTEIN
Co-Pilot: TOTH	Avaps: BOSKO GREENE
Navigator: /	System Engineer:
Flight Eng: /	AA:
Flt Director: HENNING	AA:
Avionics:	Crew Chief:

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

# of people listed on back:

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1008.7	30.29 STA 1009.5	PS 1010.2	30.30 STA 1009.8

ATIS - Takeoff

ATIS - Land

Data Source	Number	Data Disposition / Date / Quality / File Name(s)
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Flight Level Tapes

Radar Tapes

Dropsondes



Good: 13

Bad: Ø

Sent: 13 TRANSMITTED

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:

CP Drop #7 (5140N 17131E) 16/12Z

Mission ID:

NOAA9 23WSW TRACK69

SAKURAJIMA

yest aft. (5th at 5Z up to 10K)

YOKOTA WX

3740ss. weather@yokota.af.mil

PMSV 344.6

Shemya PASY  
ADAK PADK  
MISAWA RJSM  
IWACUNI RJOI



# HENDING

P69 MODIFIED (250PS II 54152)

Pg \_\_\_\_ of \_\_\_\_

[illegible]



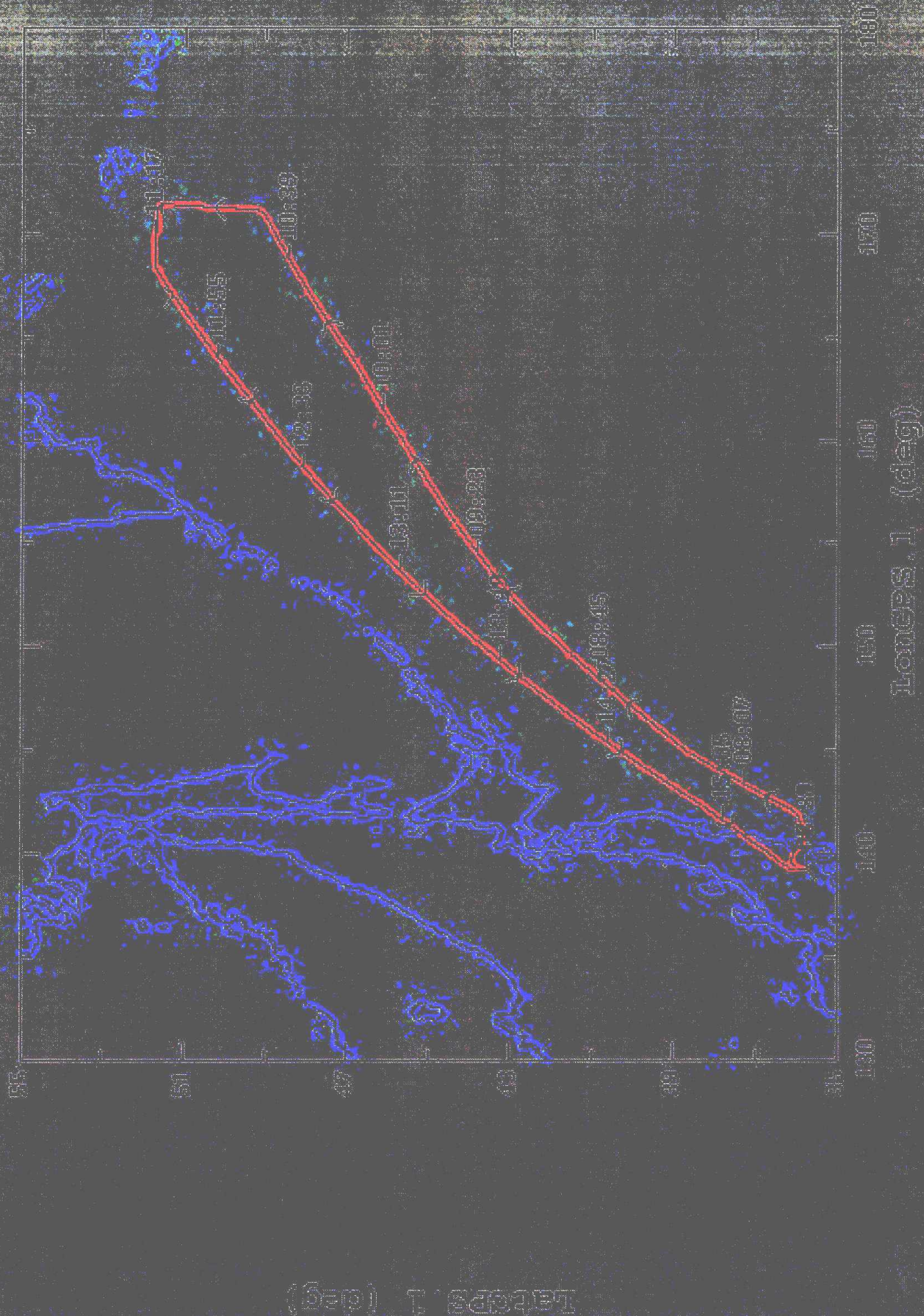
# Track 69 Drop Points.txt

## Track 69 Modified

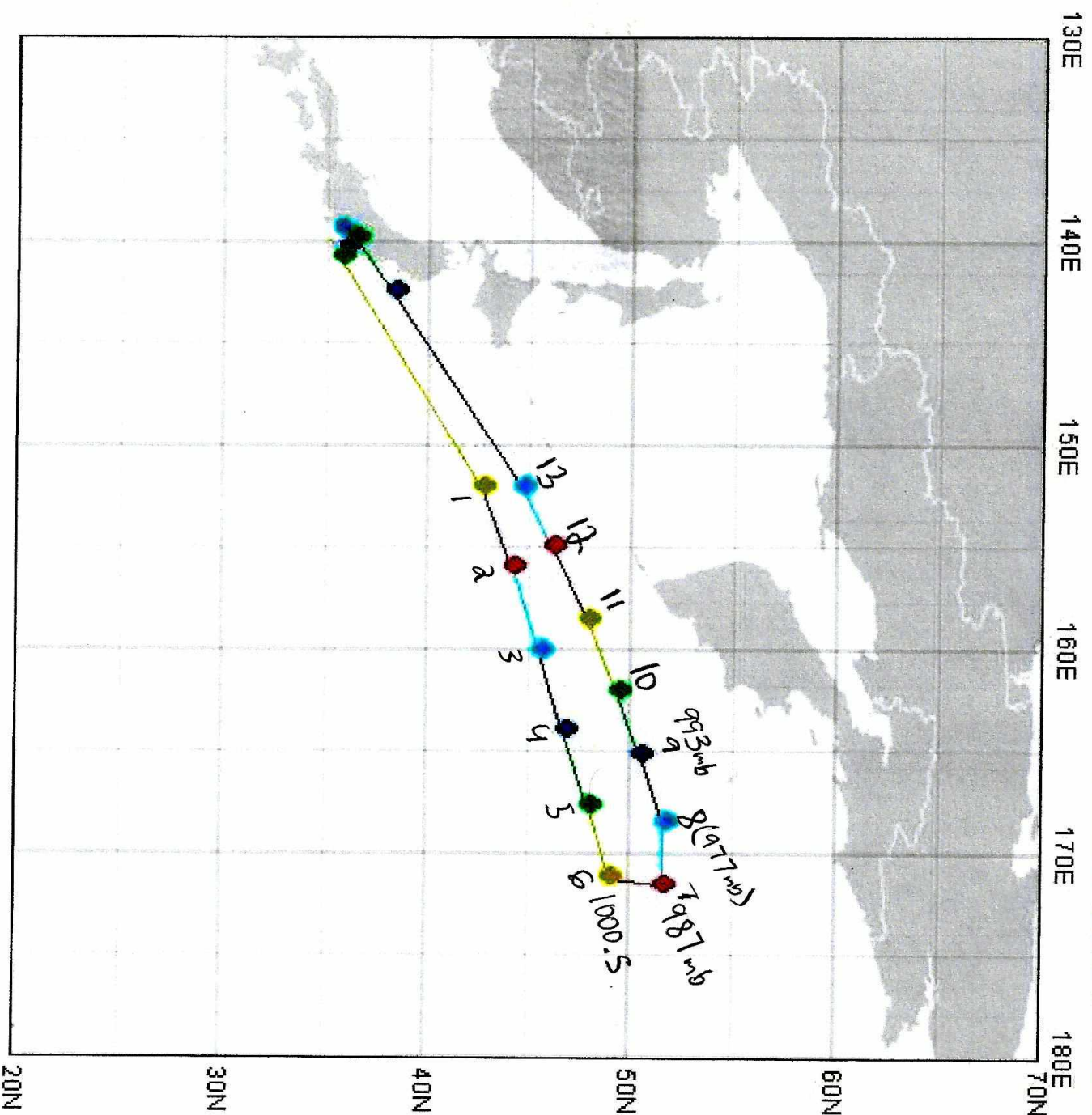
1	42	45	152	00
2	44	18	155	57
3	45	38	160	06
4	46	50	163	57
5	48	06	167	42
6	49	06	171	12
7	51	40	171	31
8	51	45	168	28
9	50	36	165	10
10	49	25	162	06
11	48	00	158	36
12	46	17	154	58
13	44	45	152	00



02/16/2011, 06:51:04-15:43:26







Legend	
●	POD:AP, RJTY, YOKOTA AB, C
●	D:WP, KOGAR RJ JA 0
●	D:WP, TLE RJ JA 4
●	D:WP, CVC RJ JA 2
●	D:LL, 42450N;152000E
●	D:LL, 44180N;155570E
●	D:LL, 45380N;160060E
●	D:LL, 46500N;163570E
●	D:LL, 48060N;167420E
●	D:LL, 49060N;171120E
●	D:LL, 51400N;171310E
●	D:LL, 51450N;168280E
●	D:LL, 50360N;165100E
●	D:LL, 49250N;162060E
●	D:LL, 48000N;158360E
●	D:LL, 46170N;154580E
●	D:LL, 44450N;152000E
●	D:WP, NIKON RJ JA 0
●	D:WP, JD RJ JA 5
●	D:POA:AP, RJTY, YOKOTA AB, C