



NOAA P-3 N42RF WINTER OCEAN WINDS



Flight ID: 060214H

Sensor or system	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	2(EdgeTech Vigilant)
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	CO3061.CON (HP) n42_ocwnds06.adc

Notes:

There were two time/data gaps:

170201Z – 170208Z and 173751Z – 174450Z.

These data/time gaps could lead to erroneous vertical wind values.

The King and Johnson-Williams Liquid Water sensors were unavailable during the flight.

During the flight there were instances where dewpoint temperature exceeded derived ambient temperature. This occurred primarily during heavy precipitation events.

All other sensors worked optimally.

The selected aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the HP standard tape, and the variable names dpj_wgs, dpj_was and dpj_wz in the netCDF file represent vertical ground, vertical air and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft Static Pressure	1038.4 mb	1038.0 mb
Corrected Tower Pressure	1035.6 mb	1036.0 mb

Flight Director: A. Barry Damiano (813) 828-3310 ext. 3073

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

AOCWFI

Flt ID: <i>H060214</i>	From: <i>PANC</i>	To: <i>PANC</i>
Flt No: <i>06-19</i>	Blk In: <i>0004Z</i>	ATA: <i>2357Z</i>
ETD: <i>1700Z</i>	Blk Out: <i>1642Z</i>	ATD: <i>1657Z</i>
ETE:	Blk Time: <i>7:22 (7.4)</i>	Flt Time: <i>7:00 (7.0)</i>
Sponsor Org: <i>NESDIS</i>	Program: <i>OLEAN WINDS</i>	Purpose: <i>AROUND CENTRAL ALEUTIANS</i>

AOC Personnel

AC: <i>CHOY</i>	Sys Eng:
CP: <i>NEWMAN/SILAH</i>	Data Sys: <i>MCMILLAN</i>
Nav: <i>GALLAGHER</i>	Radar:
FE: <i>FE / KLIPPEL</i>	GPS/BT: <i>OLNEY/RASCO</i>
FD: <i>DAMIANO</i>	Cld Phys:
Avionics:	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
<i>CHANG, P.</i>	<i>PI</i>	<i>NESDIS</i>
<i>JALANEK</i>	<i>C-SCAT, KUSCAT</i>	<i>NESDIS</i>
<i>ESTEBAN</i>		<i>JPL</i>
<i>CHU</i>		<i>UMASS</i>

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

*Satellite overpass at 11:11am (2011Z)**Bal
Dw 1723Z, 1836Z**Possible CPU 'A' problem**So switching to CPU 'B'**173757Z**174045Z up**1813Z did immediate ditch drill*

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AOCWF2

Flt ID:

14060214

Time Off:

1657Z

Time On:

2357Z

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1038.4

30.75 / 1035.6

1038.0

30.76 / 1036.0

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

2

Radar Tapes

1

Cloud Physics Tapes

Video Tapes

AXBT

4

1 bad ; 3 good

AXCP

AXCTD

Dropsondes

4

all good

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIRGROUND
FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON
ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE 243.0 121.5 2182 KHZ 8364 KHZ 500 KHZ
HF/CFW
MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA, NOAA, NOAA
- POSITION _____ N / S
E / W AT _____ Z
- HEADING _____ TRUE/MAG
- AT _____ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE _____
- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
- NATURE OF EMERGENCY _____
- ASSISTANCE DESIRED _____
- PILOT INTENTIONS _____
- WE HAVE _____ ENDURANCE REMAINING

POSITION REPORT

1. POSITION

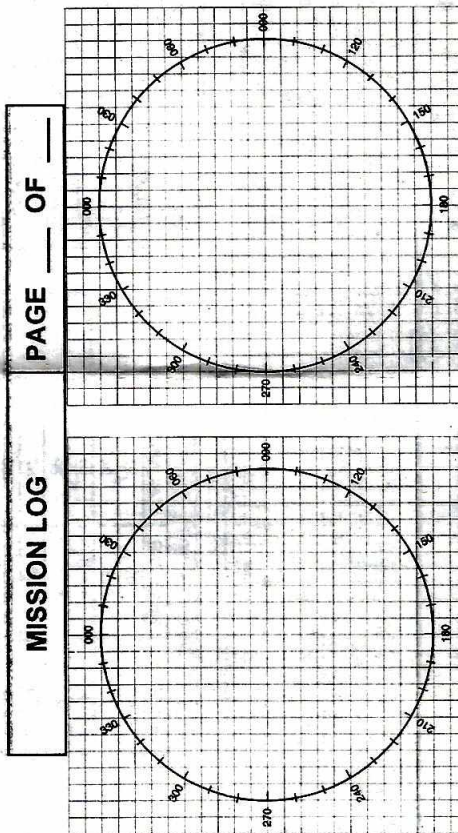
2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

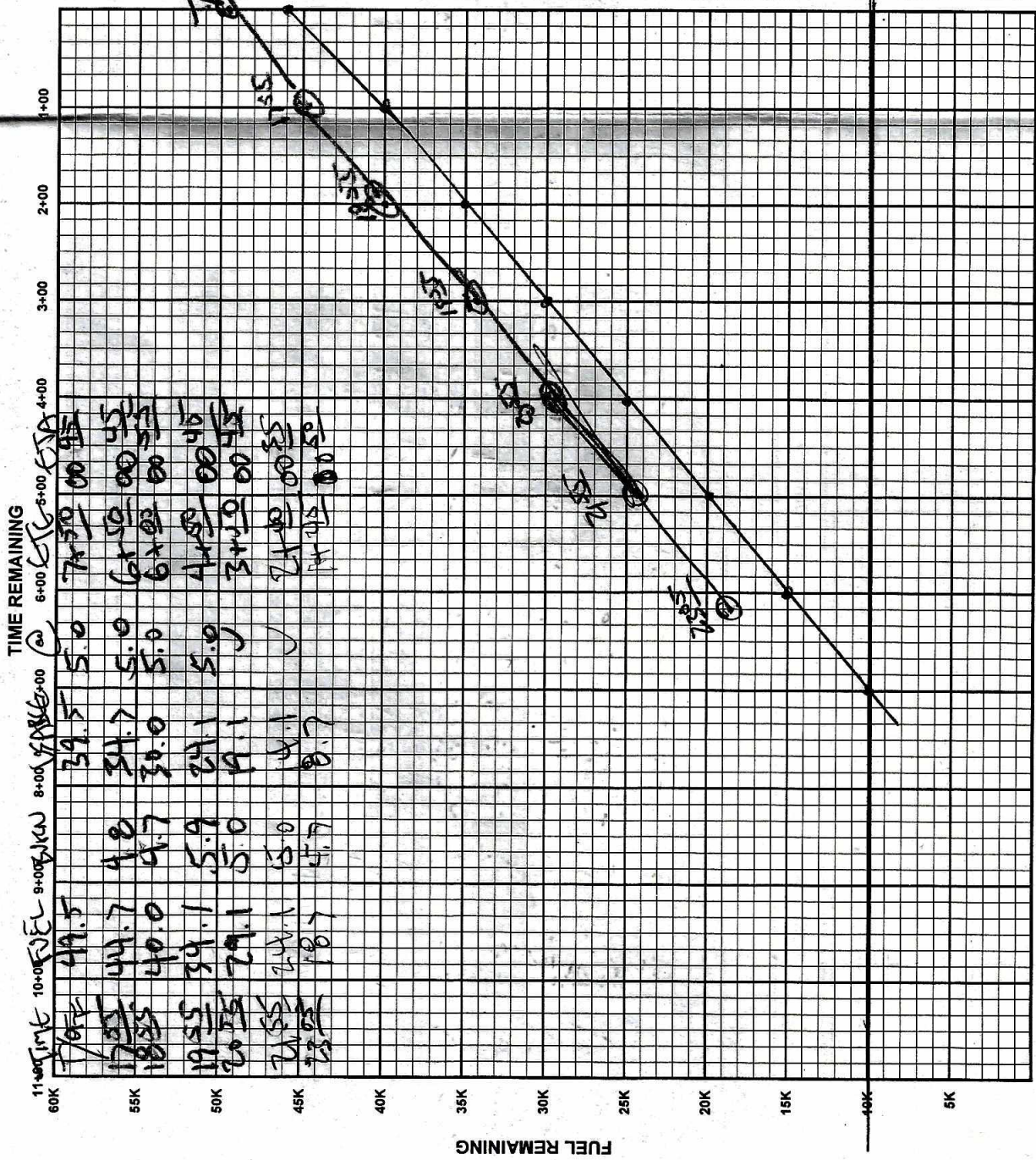


TIME	FIX TYPE	POSITION	INS 1 POSITION	KERR	INS 2 POSITION	KERR	MH	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1700	A	61-11.2 150-18.9	61-11.2 150-18.9	-	61-11.1 150-18.4	-	194	200	214	3L	211	193	234	30	1700	225	610	33	1710	1710	
1800	A	57-28.5 152-26.5	57-28.5 152-26.5	-	57-28.5 152-26.5	-	170	180	188	220	190	226	176	48	1800	226	1	81	1820	1820	
1900	A	55-15.5 156-16.6	55-14.4 156-17.0	-	55-14.6 156-17.0	-	215	180	233	13R	246	221	157	57	1900	231	2	267	1911	1911	
2000	A	53-20.0 154-27.0	53-20.0 154-27.0	-	53-20.0 154-27.0	-	215	180	233	13R	246	221	157	57	2000	231	2	40	2010	2010	
2100	A	54-27.0 155-17.3	54-26.3 155-17.3	-	54-26.2 155-16.1	-	333	156	348	17L	349	248	177	25	2100	219	4	27	2106	2106	
2200	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2200	219	5	58	2205	2205	
2300	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2300	219	5	58	2305	2305	
2400	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2400	219	5	58	2405	2405	
2500	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2500	219	5	58	2505	2505	
2600	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2600	219	5	58	2605	2605	
2700	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2700	219	5	58	2705	2705	
2800	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2800	219	5	58	2805	2805	
2900	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	2900	219	5	58	2905	2905	
3000	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3000	219	5	58	3005	3005	
3100	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3100	219	5	58	3105	3105	
3200	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3200	219	5	58	3205	3205	
3300	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3300	219	5	58	3305	3305	
3400	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3400	219	5	58	3405	3405	
3500	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3500	219	5	58	3505	3505	
3600	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3600	219	5	58	3605	3605	
3700	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3700	219	5	58	3705	3705	
3800	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3800	219	5	58	3805	3805	
3900	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	3900	219	5	58	3905	3905	
4000	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4000	219	5	58	4005	4005	
4100	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4100	219	5	58	4105	4105	
4200	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4200	219	5	58	4205	4205	
4300	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4300	219	5	58	4305	4305	
4400	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4400	219	5	58	4405	4405	
4500	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4500	219	5	58	4505	4505	
4600	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4600	219	5	58	4605	4605	
4700	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4700	219	5	58	4705	4705	
4800	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4800	219	5	58	4805	4805	
4900	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	4900	219	5	58	4905	4905	
5000	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5000	219	5	58	5005	5005	
5100	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5100	219	5	58	5105	5105	
5200	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5200	219	5	58	5205	5205	
5300	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5300	219	5	58	5305	5305	
5400	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5400	219	5	58	5405	5405	
5500	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5500	219	5	58	5505	5505	
5600	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5600	219	5	58	5605	5605	
5700	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5700	219	5	58	5705	5705	
5800	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5800	219	5	58	5805	5805	
5900	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	5900	219	5	58	5905	5905	
6000	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	6000	219	5	58	6005	6005	
6100	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	6100	219	5	58	6105	6105	
6200	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	6200	219	5	58	6205	6205	
6300	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	6300	219	5	58	6305	6305	
6400	A	54-27.0 155-17.3	54-27.0 155-17.3	-	54-27.0 155-17.3	-	333	156	348	17L	349	248	177	25	6400	219	5	58	6405	6405	

[illegible]

16
10
10

RANGE CONTROL GRAPH



ENROUTE FUEL	
ENROUTE TIME	7.0
ENROUTE FUEL (6K SKR RULE)	30.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	46.0
ACTUAL RAMP FUEL	49.5

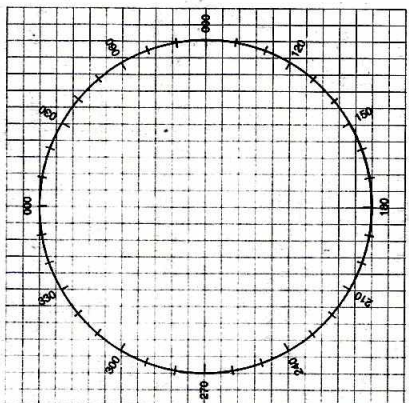
TACTICAL (OFFSTA TO DESTINATION)	
DISTANCE (OFFSTA TO DEST)	
ENROUTE TIME (OFFSTA TO DEST)	
BURN RATE (LBS/HR)	4500
ENROUTE FUEL	5500
RESERVE AT DESTINATION	
FUEL AT OFFSTA	

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	4500
FUEL REQUIRED	5500
RESERVE AT DEPARTURE	
PSR FUEL	

CEX - TRUE BEARING METHOD	
COMPASS TYPE	INS1
MCH (READING)	
MTH (SEXTANT)	
CE	
-VAR	
DEV	

CEX - ERB METHOD	
COMPASS TYPE	INS1
MERB (DIAL 000)	
+ZN	
= MTH	
MCH (READING)	
CE	
-VAR	
= DEV	

CEX SIGHT	
GMT	
GHA	
CORR	
GHA	
LONG-W	
E	
EXACT LHA	
LAT	
BODY	
DEC	
HC/D	
CORR	
HC	
Z	
ZN	



WIND FACTOR	
WINDSPEED	TAILWIND
10	1.03
20	1.06
30	1.10
40	1.14
50	1.18
60	1.22

F. FACTOR	
PRESS ALT	
10,000	1.0
20,000	.99
30,000	.97
40,000	.96

TRUE AIRSPEED CROSS-CHECK				
TIME	IAS	PRESS ALT	"F" FACTOR	OAT

DISTANCE REMAINING

ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

Time	Comments
08:00	Arrived at the site. Started the first test run.
08:15	Completed the first test run. Results were satisfactory.
08:30	Started the second test run. Encountered a minor issue.
08:45	Resolved the issue and continued the second test run.
09:00	Completed the second test run. Results were satisfactory.
09:15	Started the third test run. Encountered a minor issue.
09:30	Resolved the issue and continued the third test run.
09:45	Completed the third test run. Results were satisfactory.
10:00	Completed all test runs. The system is ready for deployment.

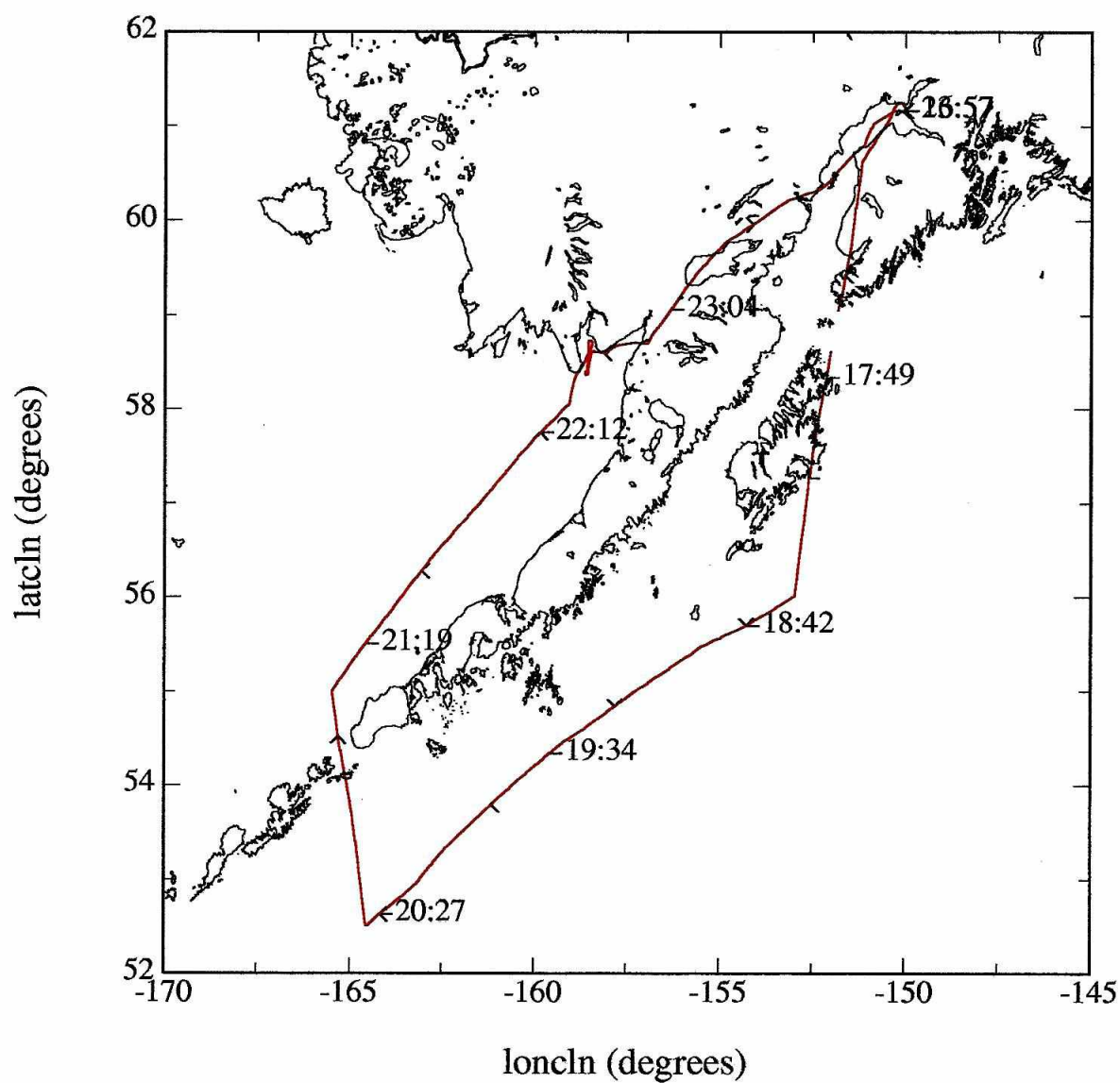
Time Comments	Lat	Lon	TA	TD	Trk	Hdg	RA	PS	SP	WD	WS	WZ
165722 .8	61.10.80	-150. 0.24	-1.8	-7.2	344.8	345.4	-6.0	1038.7	1037.9	125.0	1.4	
171254 -8	60.39.30	-151. 7.62	-17.0	-41.5	219.8	219.9	4755.0	566.2	1031.1	216.2	20.3	
172546 .1	59.49.32	-151.25.80	-16.6	-34.5	188.5	191.4	4441.0	566.1	992.0	210.6	14.9	
175348 -1	58. 4.80	-152.13.98	-18.0	-38.4	194.1	193.1	4805.0	566.1	1039.1	184.5	20.6	
182305 -0	56.20.22	-152.51.48	3.0	-31.2	190.4	188.0	1079.0	910.2	1038.7	169.1	14.2	
184448 .0	55.38.82	-154.33.24	3.3	-27.5	248.4	239.4	1034.0	912.1	1035.0	167.7	20.7	
184628 .0	55.36.54	-154.43.92	2.9	-27.6	254.2	245.9	1031.0	912.2	1034.9	169.8	19.4	
185223 .2	55.29.58	-155.22.44	2.4	-25.5	251.9	243.1	1031.0	910.9	1033.7	170.7	20.6	
190054 .3	55.16.26	-156.13.80	2.3	-11.3	243.5	230.2	1045.0	907.3	1031.3	157.6	28.4	
191811 -1	54.48.60	-157.54.12	1.6	-4.7	242.6	235.8	1050.0	902.5	1026.7	183.6	17.2	
193210 .1	54.24.84	-159.20.70	-0	-9.9	241.5	230.0	1083.0	896.7	1025.0	160.8	25.9	
193923 .3	54.11.64	-160. 0.06	-2.1	-4.4	240.3	229.8	1068.0	896.8	1024.2	167.9	24.8	
193937 -1	54.11.22	-160. 1.32	-2.2	-4.3	240.2	229.3	1067.0	896.8	1024.1	167.7	26.0	
200954 -1	drop good wnds		-2.0	-6.0	231.8	230.0	1015.0	896.8	1017.6	180.9	5.9	
201011 -3	bt		-2.1	-6.0	231.4	230.1	1013.0	896.9	1017.4	195.9	5.9	
202141 -1	drop		-1.6	-17.4	242.7	239.4	1055.0	891.7	1016.7	180.0	8.4	
203250 -0	clr/cld blw		-2.4	-18.4	349.1	348.0	1047.0	891.8	1016.1	182.2	12.9	
205522 1.3	turn nnw		-4.7	-10.9	343.5	342.3	820.0	876.1	971.5	180.3	11.4	
211030 -1	crossing Akun Island		-2.4	-12.2	45.4	51.1	1046.0	890.4	1014.4	180.3	15.0	
213726 1	turn ne clr		-6	-8.3	48.3	53.8	1077.0	890.7	1017.7	186.7	15.3	

[illegible]

2240-2305 *near over King*

Ocean Winds Flt #3

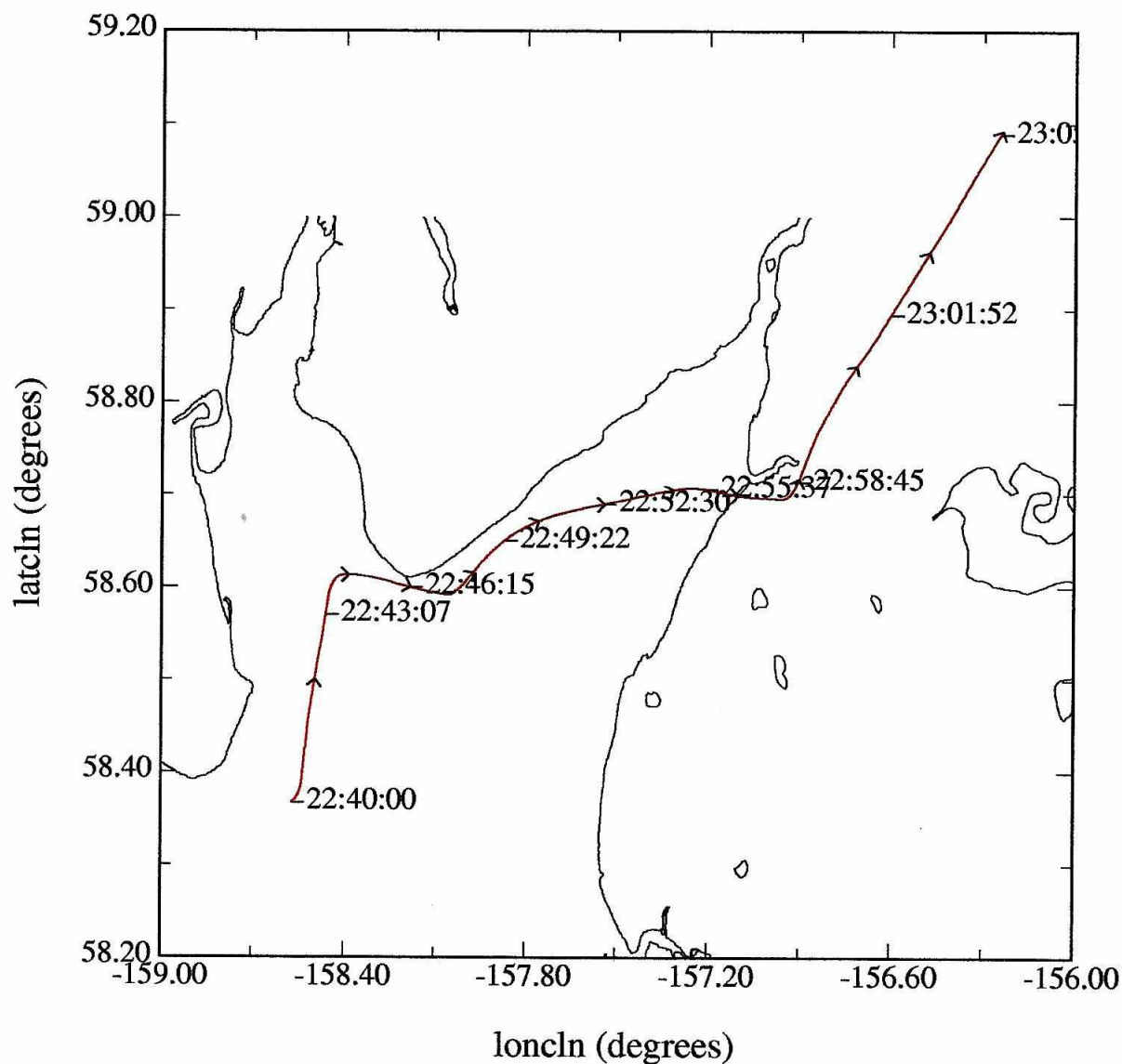
02/14/2006 UTC, 16:57:00-23:57:00



	mean	sigma	min	max
latln (degrees), 1 s/sec	56.80	2.52	52.51	61.25
loncln (degrees), 1 s/sec	-157.76	4.85	-165.46	-150.00

Ocean Winds Flt #3 (over King Salmon)

02/14/2006 UTC, 22:40:00-23:05:00



	mean	sigma	min	max
latln (degrees), 1 s/sec	58.70	0.15	58.37	59.09
loncn (degrees), 1 s/sec	-157.52	0.71	-158.57	-156.24