



NOAA P-3 N42RF WINTER OCEAN WINDS



Flight ID: 060223H

Sensor or system	Number or Name
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1(General Eastern)
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 no time/data gaps.

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

Dewpoint sensor #1 values were removed and patched (.2) during the time frame: 231900Z – 232655Z. Also dewpoint sensor #1 values were replaced with dewpoint sensor #2 values from 005524Z – 010511Z and 013208Z – 014508Z.

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	1023.0 mb	1024.8 mb
Corrected Tower Pressure	1019.8 mb	1022.2 mb

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

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AOCWF1

Flt ID: 060223H	From: <i>PANL</i>	To: <i>PANL</i>
Flt No: <i>06-022</i>	Blk In: <i>0510Z</i>	ATA: <i>0504Z</i>
ETD: <i>2300Z</i>	Blk Out: <i>2238Z</i>	ATD: <i>2253Z</i>
ETE:	Blk Time: <i>6:32 (6.5)</i>	Flt Time: <i>6:11 (6+2)</i>
Sponsor Org: <i>NESDIS</i>	Program: <i>OCEAN WINDS</i>	Purpose: <i>FLT #5</i> <i>Buoy SW of Kodiak Island</i>

AOC Personnel

AC: <i>CHOY</i>	Sys Eng:
CP: <i>SILAH / NEWMAN</i>	Data Sys: <i>Mc MILLAN</i>
Nav: <i>GALLAGHER</i>	Radar:
FE: <i>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>CHU, T</i>	<i>C-SCAT; KU-SCAT</i>	<i>UMASS</i>

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

fly to buoy 46075 53°56' 160°48' then do
stair-step starting at 12K, 10K, 7K, 4K for 10 minutes legs
at each alt.
End DWI ~~2320Z~~

Someone on ground telling us
to shut down engines
Satellite overpass 0259Z
launch 0258Z

20/6

2.2
3.1
4.3

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AOCWF2

Flt ID: *060223H* Time Off: *2253Z* Time On: *0504Z*

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	<i>1023.0</i>	<i>30.28 / 1019.8</i>	<i>1024.8</i>	<i>30.35 / 1022.2</i>

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	<i>2</i>	
Radar Tapes	<i>1</i>	
Cloud Physics Tapes		
Video Tapes		
AXBT	<i>4</i>	<i>3 bad; 1 good</i>
AXCP		
AXCTD		
Dropsondes	<i>5</i>	<i>all good</i>

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

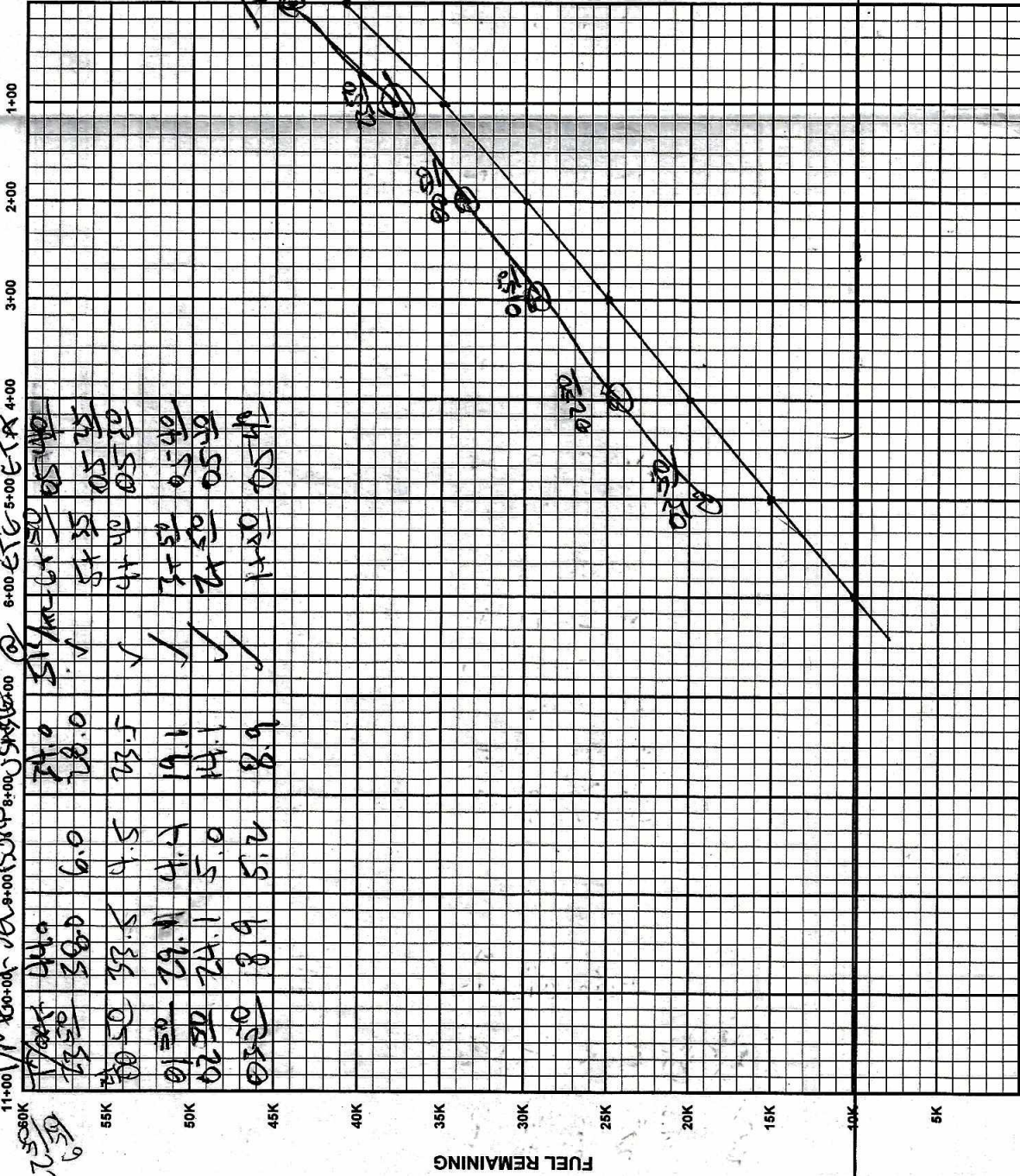
30.35

[illegible]

RANGE CONTROL GRAPH

TIME REMAINING

11:00 10:00 9:00 8:00 7:00 6:00 5:00 4:00 3:00 2:00 1:00



ENROUTE FUEL	
ENROUTE TIME	6:00
ENROUTE FUEL (6K/5K/4K/3K/2K/1K)	31.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	41.0
ACTUAL RAMP FUEL	44.0

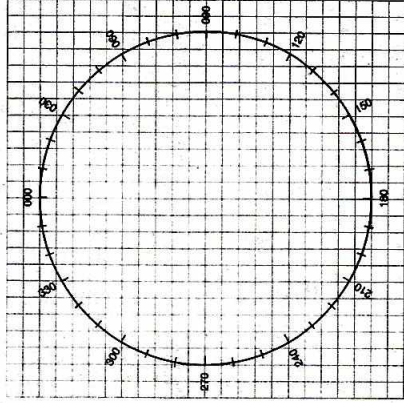
TACTICAL (OFFSTA TO DESTINATION)	
DISTANCE (OFFSTA TO DEST)	4 ENG 3 ENG
ENROUTE TIME (OFFSTA TO DEST)	
BURN RATE (LBS/HR)	4500 5500
ENROUTE FUEL REQUIRED	
RESERVE AT DESTINATION	
FUEL AT OFFSTA	

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	4 ENG 3 ENG
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	4500 5500
FUEL REQUIRED	
RESERVE AT DEPARTURE	
PSR FUEL	

CEX - TRUE BEARING METHOD	
COMPASS TYPE	INS1 INS2 WET
MCH (READING)	
MTH (SEXTANT)	
CE	
-VAR	
DEV	

CEX - ERB METHOD	
COMPASS TYPE	INS1 INS2 WET
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	HEADWIND TAILWIND
10	1.03 .97
20	1.06 .94
30	1.10 .92
40	1.14 .89
50	1.18 .87
60	1.22 .85

DISTANCE REMAINING

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

PRESS ALT	
10,000	200 250 300 350
20,000	1.0 1.0 .99 .99
30,000	.99 .98 .97 .97
40,000	.97 .96 .95 .94
	.96 .94 .92 .90

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

060223H

Time
Comments

	Lat	Lon	TA	TD	Trk	Hdg	RA	PS	SP	WD	WS	WZ
225309 t/o	61.10.20	-149.58.80	-7.5	-15.7	89.8	89.5	-7.0	1023.0	1022.1	3.0	3.4	1.4
225826 thru 10k	61. 0.42	-150.11.88	-22.0	-26.7	232.2	232.1	2860.0	704.6	1026.0	187.4	4.0	1.0
230233 at 14k	60.50.82	-150.37.80	-30.9	-35.4	233.2	232.8	3926.0	603.8	1022.7	193.9	6.5	.1
234438 near Kodiak	58.17.46	-152. 6.42	-31.4	-37.1	193.6	197.9	3995.0	603.1	1031.5	227.2	12.2	-.2
000237 ovr Kodiak crossing front	57.29.64	-153.23.58	-32.3	-43.3	240.1	241.9	3950.0	603.1	1027.5	279.8	3.2	-.4
004402 at 14k ovr water	56. 3.24	-157.58.50	-30.3	-46.5	217.2	230.4	4014.0	608.4	1040.9	330.2	29.6	.3
011030 nearing buoy 46075	54.32.22	-160. 2.04	-22.5	-42.4	217.0	227.6	3657.0	645.6	1039.9	327.3	24.1	1.3
011551 strt 12k leg ovr buoy 46075	54.13.20	-160.25.56	-22.3	-41.6	214.3	224.7	3649.0	647.1	1040.7	331.8	23.1	-.4
012117 sonde ovr buoy 46075 at 12k	53.53.94	-160.48.24	-22.2	-41.0	215.4	226.1	3656.0	647.2	1041.7	333.4	24.3	-.9
012615 end 12k leg	53.35.82	-161. 9.54	-21.0	-43.4	214.8	224.6	3662.0	647.9	1041.4	331.1	22.1	-.5
013202 strt 10k leg ovr buoy 46075	53.38.76	-161. 6.18	-17.5	-42.8	34.8	27.2	3039.0	704.6	1042.2	330.4	20.5	.7
013702 ovr buoy 10k	53.54.24	-160.47.88	-19.0	-45.7	35.0	27.9	3031.0	704.8	1043.7	324.2	18.2	.3
014242 end 10k run	54.11.34	-160.27.18	-18.7	-44.8	34.6	27.4	3025.0	704.8	1042.6	326.8	18.5	-.4
014633 strt 7k leg ovr buoy	54.10.68	-160.26.94	-12.3	-43.9	221.9	229.2	2128.0	793.2	1041.1	338.9	15.2	-.2
015126 ovr buoy at 7k	53.54.66	-160.47.10	-12.5	-41.4	215.3	222.2	2134.0	793.4	1042.2	332.0	14.2	-.5
015639 end 7k run	53.37.02	-161. 7.74	-12.9	-42.4	214.2	221.8	2140.0	793.1	1043.1	331.2	15.4	.3
020249 strt 4k leg ovr buoy 46075	53.41.70	-161. 2.64	-6.3	-30.5	34.4	28.8	1200.0	896.1	1042.8	325.5	14.0	.3
020718 bt/sonde ovr buoy bt bad	53.54.24	-160.47.94	-6.7	-27.5	34.4	28.0	1204.0	895.3	1042.6	319.1	15.1	1.7

528 1039.8

WT 3.5

3.5

3.5

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