FORM NO.1 DAOWP1 FILE

FLT ID: 960430I	FM: AOC	TO: AOC
FLT NO: 96-34	BLK IN: 0152Z	ATA: 0149
ETD: 18Z	BLK OUT: 1751Z	ATD: 1757Z
ETE: 9	BLK TIME: 8:01 (8.0)	FLT TIME: 7:52 (7.9)
SPONSOR ORG: DOAA	PROGRAM: FOC I	PURPOSE: FLIGHT 4

11

OAO PERSONNEL

AC McKim ✓	SYS ENG Lynch ✓
CP Kenul ✓	DATA SYS Barr ✓
NAV Strong ✓	RADAR
FE Best ✓	BT/ODW
RADIO	CLD PHYS
FD Parrish	DOPPLER

21

PARTICIPATING SCIENTIST/VISITORS/OAO

31

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BOND, D.	PI	
DAVIS, R. ✓		
STEWARD, B. ✓		
DAVE STRECHEL ✓	OBSERVER	DWS
TOM REDZ ✓	OBSERVER	DWS
ALICIA CIOTTI ✓	OBSERVER	Dalhousie U.

42/28
140/5
30.11
1018.8
52/-2.0
1016.1
170/2
1018.8
Fm 1.0K

LAND
0051Z
30.16
1020.5
260/11
50/30
S/1019.3.
fm 1.2K
10.2/-1.8
1018.9

47

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

IP 58.7 152.5 → 56.3 157.8 → W EP 57.5 161.8

59

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: TIME OFF: TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE				

	NO	DATA DISPOSITION/DATE/QUALITY
1/SEC FLT LVL TAPES		
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

960430I FOCI #4

175700	0.0	− +0.1	10.1	59.4	✓
184030	0.0	+ −0.2	42.2	33.8	✓
192600	+0.1	− +0.2	20.5	34.2	✓
201530	+0.4	+ −0.5	06.4	48.0	✓
210030	−0.2	− +0.2	28.3	17.9	✓
214500	+0.6	+ −0.9	48.2	58.3	✓
223000	+0.2	0.0	03.9	01.3	✓
231500	+1.1	+ −0.6	09.3	38.8	Fix this.
235900	+0.4	+ −0.1	54.4	22.2	✓
(10) 015200	+0.1	+ −0.8	10.4	58.2	✓

Fixed APD-159 RA at end of FH.

Renamed INF #1.

Switched to ACC 2 due to noisiness in ACC #1.

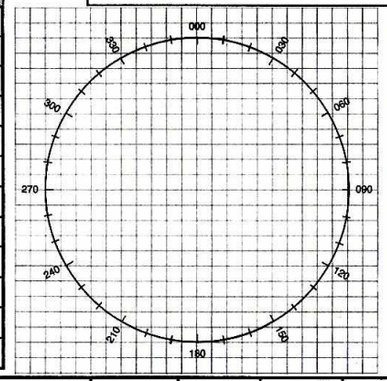
NOAA FORM 59-4
(2-72)

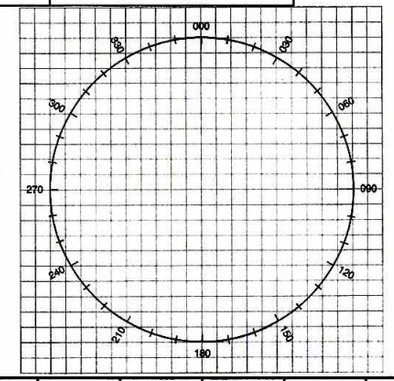
960430I FOCI #4

Time	LAT	LON	TK	WD	WS	PA	GA	TA	TD	SP	PS	ID	
1751	61 10.4	149 58.4				-30		8.4	-7.5		1016.8		BLK
175845	61 08.6	150 19.7	207	5	8.9	666	700	0.7	-6.2	1020.3	929.3	↑	
181730	60 01.5	151 09.2	204	338	3.8	3001	2383	-15.0	-31.1	953.7	700.9	—	
1830	59 15	151 55	205	30	4.0	2999	2948	-15.4	-30.5	1021.9	701.3		
1832	59 07	152 05	↓ to 1K										
183945	58 42	152 31	264	320	3	261	316	1.8	-3.7	1021.3	982.4	PT	1
184900	58 35	153 22.5	167	8	6	261	314	3.2	-8.0	1021.0	982.6		
185415	58 16	153 13.5	~	282	11	260	322	1.1	-2.7	1022.3	982.4	PT	3
190415	58 05	154 12	~	~	~	260	320	2.4	-8.5	1022.0	982.5	PT	4
1913	57 38	154 30	~	225	5	254	321	0.6	-4.9	1023.2	982.6	PT	5
192045	57 38	155 18	221	327	21.7	259	326	0.0	-5.5	1023.4	982.5		
193715	56 49	156 21	223	322	7.6	260	345	-0.5	-7.4	1025.5	982.4		
2034	56 12	161 42.7	274	330	19	1827	1889	-7.5	-15.6	1029.5	812.3		
2037	↓ to 1K for pattern					CT 3K							
2043	56 11	162 37.4	264	320	5.8	171	317	-2.7	-5.3	1033.0	992.7		
204630	56 10	162 58	PT A									3.1	PT A
205715	56 24.3	163 39.7	291	339	5.3	170	317	-2.7	-4.9	1033.2	992.9	2.8	
210600	56 35.6	164 50.9	296	319	2.7	170	318	-2.8	-4.9	1033.4	993.0	2.2	CH 12 ✓
211615	56 51.1	165 48.4	296	299	5.1	174	317	-2.4	-4.0	1033.3	933.2	1.4	
212745	57 08	166 49	52	290	3.5	198	345	-1.3	-4.1	1032.0	989.2	0.4	CH 12 ✓ B
213546	57 19	166 08.9	171	280	3.6	197	342	-2.4	-4.0	1033.2	989.7	0.0	CH 14 ✓ C
2145	56 48.6	165 58.2	164	18	1.1	197	345	-2.4	-4.1	1033.6	989.9	1.2	
215418	56 16	165 42	164	343	4.6	197	346	-0.4	-4.8	1033.4	989.7	2.7	CH 12 ✓
220520	55 37.3	165 28.9	~	41	2.4	195	346	-0.1	-4.5	1033.3	990.2	3.8	PT D
221515	55 59.4	166 18.2	310	204	5.5	196	347	-0.3	-2.9	1033.5	989.8	3.8	
2225	56 20.2	167 07.4	~	175	7.3	196	347	-0.3	-2.2	1033.3	990.0	3.4	PT E
223435	55 52.9	166 49.3	56	255	4.8	196	347	0.6	-4.1	1033.5	989.7	3.9	PT F 12 ✓
224030	56 06	166 20	53	260	5.2	196	347	-0.4	-5.0	1033.6	989.9	3.5	PT G 14 ✓ MOORING
225145	56 26.5	165 18	60	324	4.9	196	346	-2.7	-5.0	1033.7	989.9	3.0	DROP 12 ✓
230500	56 32.8	164 07	64	287	3.4	197	345	-3.7	-5.8	1033.7	989.9	0.5	DROP 12 ✓
231217	57 06.1	163 23.9	~	306	6.6	196	341	-3.4	-6.0	1033.4	990.0	0.9	DROP 16 ✓
2323	57 18	164 27	~	280	2.8	197	342	-3.4	-5.4	1033.3	990.0	0.8	PT I
233125	56 52	164 03	~	205	1.3	194	343	-3.9	-5.7	1033.8	989.8	0.8	MOORING
2342	56 17	163 43	~	12	2.9	196	346	-2.9	-4.7	1033.9	989.9	3.2	PT L
225315	56 42	162 50	50	311	9.5	196	344	-3.0	-5.7	1033.5	989.8	1.3	
0005	57 06.8	161 50.6	55	317	18	196	337	-2.8	-5.5	1032.7	989.7	2.0	
0009	57 16	161 29	↑	CB	1.5K		CT 3.5K						PT M
003230	58 15	159 05	53	334	39	6434	6355	-35.4	-44.4	1031.4	444.3	0.4	-21K NEAR COAST
0052	59 05.9	156 48.6	58	339	26.8	6434	6310	-36.0	-43.7	1026.6	444.4	8.7	
0122	60 24	152 50	↓ to land										
012530	60 28.9	152 31.1	55	350	13.4	5513	4807	-32.0	-42.0	920.9	510.5	-1.5C	↓ to land
0139	60 59.5	150 47.5	62	350	27	1002	1024	0.5	-6.3	1020.7	917.8	2.9	↓
0152	61 10.4	149 58.2											
						-38		14.3	-1.1		1017.8	Black	

CLEARANCES			
FREQ	ALT	HDG	OTHER

MISSION LOG | PAGE ___ OF ___





POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

EMERGENCY MESSAGE

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

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

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

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1815	G	60-10.9 151-00.4	60-10.8 151-00.5	+.1 -.1	60-10.9 151-00.2	0 +.2			206	2L	204	245	352	2	10.0	244	Hom	30	7	1822	FM1
1922	G	57-34.8 155-21.6	57-34.4 155-21.7	+.4 -.1	57-34.6 155-20.6	+.2 +1.0			214	6L	208	224	323	24	1.0	216	6	115	31	1953	FM1
2047	G	56-11.3 163-02.2	56-11.5 163-02.5	-.2 -.3	56-11.9 163-01.7	-.6 +.5			298	2L	296	210	338	5	1.0	213	B				
2226	G	56-18.6 167-07.8	56-18.3 167-07.8	+.3 0	56-20.3 167-06.9	-1.7 +.9			159	1L	158	202	194	6	1.0	207	[illegible]				
0052	G	59-04.9 156-52.5	59-04.3 156-51.9	+.6 +.6	59-07.6 156-49.8	-2.7 +2.7	033	20E	053	5R	058	278	338	27	21.0	285	ANC	236	+51	0143	
0155	V	61-10.4 149-58.2	61-10.3 149-57.4	+.1 +.8	61-11.7 149-53.8	-.7 +4.4															

FOLL #4

0148

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
ANC	96-034	STRONG	McKim	PARRISH	1800 / 1757	30 APR 96

BLOCK 1751

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
1 Hom	59-42.6 151-27.4																	
2 BARGE	58-49N 152-27W																	
1 IP	58-42 152-30																1839	
2	58-40 N 153-25 W																1847	
3	58-14N 153-15W																1854	
4	58-05N 154-14W																	
5	57-57N 154-30W																	
6	57-39N 155-16W																	
7	56-00N 157-28W																	
PNT	57-30 161-8																	
ANC	61-09 150-12.4						061						417	4:30				
															DEPART 0100 LAND 0251			

INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME	1620	1620
ALIGN STATUS (0-5)	0	0
END NAV TIME	0153	0153
START NAV TIME	1743	1743
DELTA T	8+10	8+10

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT	+.1	-.7
DELTA LON	+.8	+4.4
RGS	1	2
RADIAL ERROR	0	3

REMARKS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

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

FUEL REMAINING: 60K 55K 50K 45K 40K 35K 30K 25K 20K 15K 10K 5K

(A) 56-10 / 163-00
(B) 57-05 / 166-50
(C) 57-23 / 166-10
(D) 55-36 / 165-32
(E) 56-19 / 167-10
(F) 55-50 / 166-56
(G) 56-04 / 166-20
(H) 56-52 / 164-01
(I) 57-05 / 163-21W
(J) 57-19 / 164-26
(K) 56-52 / 164-01
(L) 56-15 / 163-45
(M) 57-17 / 161-28

DISTANCE REMAINING

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

+39 +09 +32 +20 +09 +07 +26 +07 +11 +06 +09 +24 | 199 | 37+19

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

ENROUTE FUEL	
ENROUTE TIME	
ENROUTE FUEL (6K, 5K, 4.5K RULE)	
RESERVE AT DESTINATION	
REQUIRED RAMP	
ACTUAL RAMP FUEL	

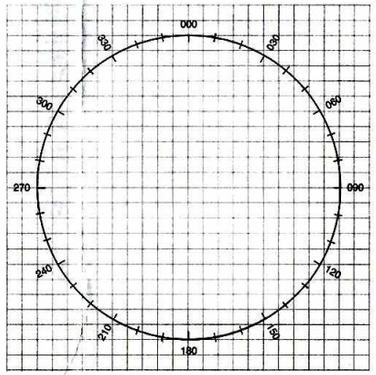
TACTICAL (OFFSTA TO DESTINATION)	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

POINT OF SAFE RETURN	4 ENG	3 ENG
ETP DISTANCE (TO DEPARTURE)		
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	



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

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