

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 95102411	FM: MCF	TO: MCF
FLT NO: 95-53	BLK IN: 1719	ATA: 1711
ETD: 3 11Z	BLK OUT: 1055	ATD: 1111
ETE: 7	BLK TIME: 6:24 (6.4)	FLT TIME: 6:00 (6.0)
SPONSOR ORG: AOC	PROGRAM: CALIBRATION	PURPOSE: AEROSTAT FLY-BY

OAO PERSONNEL

AC Kennedy ✓	SYS ENG Roles ✓
CP McKim ✓	DATA SYS Barr ✓
NAV Strong ✓	RADAR Delgado ✓
FE Torrey ✓	BT/ODW
RADIO	CLD PHYS
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Black, M. ? ✓	C-SEAT	ITAD

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #) → 42 on 43.

72/69 ✈ 2A00 - TRANSIT TO AREA W/ FORM W/ 43. → 42 on 43.

30.12 1058 5P 1019.3 - FLEW 10K PATHEAN FIRST. BAD TD - WAY

213/20.9 1019.7 Fm 1.2K TOO LOW. BAD TD (BOTH) ON AEROSTAT.

65/10 4/1019.8 Fm 3K 5P 1019.0 - FLEW 15K, 20K W/ DOPPLER TRACKS, YAW AT 20K. (changed TD head enroute 15K racetrack).

90/14 1K 5P 1020 Fm 1820.5 - FLEW 5 MIN BOX FORM W/ 43. (42 on 43)

5/1020 Fm 1K 28-7/174 - FLEW 1K AEROSTAT PATHEAN

CB 3.5K - FORM (43 on us) BACK TO MACDILL.

15/15 5K

1043 2100 warmer on TD enroute.

951024H AEROSTAT CAL FET

Time	LA	LO	JK	OD	OS	PA	GA	TA	TD	SP	RS		
1055	27509	8229.6				-52		22.0	20.9		1019.5	BLK	
112815	2845	8248	328	185	4.1	3137	3357	8.1	-15.5	1019.8	689.0	-	11K RA
114044								9.6	-31.7		702.0	PRACTICE	
114851												PRACTICE	
115609	29 30	83 16		246	9.5			9.3	-29		701	180	
120331	29 30			252	8.9			9.3	-32		701		
121109				245	8.3			9.1	-33.6		701		
121806				252	9.1			9.2	-32.3		701	210	
122516				250	7.5			9.2	-30.6		700.5		
123300				234	6.8			9.0	-29.0		700.4		
124018				233	7.3			9.1	-30		699.9	240	
124737				238	7.7			9.2	-11.7		699.9		
125531				255	7.9			9.2	-5.0		700.0		
130615	29 27	83 19	299	296	15.4	4509	4795	-1.2	-20.3	1019.4	576.7	130815	180 wind
131000	29 26	83 26	119	300	17.6	4509	4805	-1.2	-18.3	1020.4	576.5	131200	180 wind
131440	29 29	83 21	300	293	15.6	4517	4801	-0.9	-18.0	1018.4	576.0	131640	240
131855	29 27	83 32	120	301	17.5	4515	4816	-1.1	-19.0	1020.3	576.1	132055	
132805	29 16	83 26	60	237	11.9	6079	6469	-12.6	-21.9	1023.9	466.6	133005	180 WTS 20K
133200	29 24	83 21	238	223	9.0	6082	6469	-12.8	-19.4	1023.6	466.6	133400	
133900	29 25	83 20	230	222	8.8	6088	6478	-12.4	-19.3	1023.1	466.2	134100	205 WTS
134225	29 16	83 24	51	230	11.5	6088	6482	-12.3	-19.8	1023.0	466.2	134425	
134505	29 26	83 18	2	220	9.0	6086	6471	-12.4	-19.2	1022.8	466.6	134705	
135552				12	19			16.6	10.6		850.0	180	
140340				13	19.9			16.6	10.5		850.5		
141051				9	20			16.5	10.6		850.4		
141759				7	19.1			16.5	10.6		850.3	210	NEAR CLOSE, #160
142548				4	19.5			16.6	10.6		851.0		
143312				0	21			16.6	10.6		850.9		
144034				0	22			16.7	10.4		850.3	240	5K AEROSTAT
144751				3	21.4	1457	1605	16.9	9.7	1022.4	850.5		
145608				5	21.4			17.3	9.0		850.2		
150145	29 29	83 12	267	20.5	21	1441	1590	15.8	11.2	1023.6	852.0	150645	FARM LEG 1(W)
150800	29 27	84 04	181	5	19.7	1441	1591	16.1	12.3	1023.5	851.6	151300	" " 2(S)
151430	29 04.6	83 59	96	13	19.6	1436	1585	16.1	11.2	1023.4	852.0	151930	" " 3(E)
152045	29 06	83 36	0	24	21.9	1441	1589	16.7	10.0	1022.7	851.8	152545	" " 4(N)
152810	29 25	83 41								152914			
152930	29 20	83 43								153035			
154128				0	2.5	280	374	21.9	17.3	1022.7	980.4	180	
154819				320	4.0	284	377	21.9	17.3	1023.0	979.0		
155437				330	4.0	284	378	21.9	17.0	1023.2	978.4		
160058				347	4.4			22.2	16.9	1022.8	979.6	210	
160712				22	6.3	280	376	22.1	17.0	1022.9	979.4		
161337				355	5.6	286	379	22.3	17.1		979.8		
161958				338	2K			22.4	16.7	1022.7	979.6	240	
162631				355	7.3	287	377	22.5	16.7	1022.7	980.0		
163309	29 30	83 16.2		9	4.5	288	381	22.6	16.6	1022.2	980.1		
164545	29 03.5	83 04.2	156	1	12.6	996	1116	16.0	12.6	1023.4	999.2	16	16
170130	28 06	8239.7	161	13	10	586	682	20.8	16.4	1020.6	944.5		
1719	27 50.9	8229.6				-50		29.2	17.6		1019.2	BLK	

} 11K AEROSTAT

N142 (JOCK)

N143 (BARRY)

TEAL 19

SFC PRESSURE

24519
115609Z

115746Z

120013Z

120331Z

120442Z

120632Z

121109Z

121240Z
-1.8 9.7°C

121450Z

121806Z

121951Z

122149Z

122516Z

122638Z

122842Z

123300Z

123418Z

123610Z

124018Z

124152Z

124352Z

1020.9

124737Z

124917Z

125120Z

125531Z

125706Z

125917Z

-2 Sec's

180
450
D
②
③
④
240 KTS - 210 KTS

42 381
42 382
42 383
42 384
42 385
42 386
42 387
42 388
42 389
42 390
42 391
42 392
42 393
42 394
42 395
42 396
42 397
42 398
42 399
42 400
42 401
42 402
42 403
42 404
42 405
42 406
42 407
42 408
42 409
42 410
42 411
42 412
42 413
42 414
42 415
42 416
42 417
42 418
42 419
42 420
42 421
42 422
42 423
42 424
42 425
42 426
42 427
42 428
42 429
42 430
42 431
42 432
42 433
42 434
42 435
42 436
42 437
42 438
42 439
42 440
42 441
42 442
42 443
42 444
42 445
42 446
42 447
42 448
42 449
42 450
42 451
42 452
42 453
42 454
42 455
42 456
42 457
42 458
42 459
42 460
42 461
42 462
42 463
42 464
42 465
42 466
42 467
42 468
42 469
42 470
42 471
42 472
42 473
42 474
42 475
42 476
42 477
42 478
42 479
42 480
42 481
42 482
42 483
42 484
42 485
42 486
42 487
42 488
42 489
42 490
42 491
42 492
42 493
42 494
42 495
42 496
42 497
42 498
42 499
42 500



National Brand

42-891
42-892
42-893
42-894
42-895
42-896
42-897
42-898
42-899
42-900
42-901
42-902
42-903
42-904
42-905
42-906
42-907
42-908
42-909
42-910
42-911
42-912
42-913
42-914
42-915
42-916
42-917
42-918
42-919
42-920
42-921
42-922
42-923
42-924
42-925
42-926
42-927
42-928
42-929
42-930
42-931
42-932
42-933
42-934
42-935
42-936
42-937
42-938
42-939
42-940
42-941
42-942
42-943
42-944
42-945
42-946
42-947
42-948
42-949
42-950
42-951
42-952
42-953
42-954
42-955
42-956
42-957
42-958
42-959
42-960
42-961
42-962
42-963
42-964
42-965
42-966
42-967
42-968
42-969
42-970
42-971
42-972
42-973
42-974
42-975
42-976
42-977
42-978
42-979
42-980
42-981
42-982
42-983
42-984
42-985
42-986
42-987
42-988
42-989
42-990
42-991
42-992
42-993
42-994
42-995
42-996
42-997
42-998
42-999
43-000

N 42

N 43

TEAL 19

SFC PRESSURE

180 KTS

TEST →

15 3409 Z

15 3637 Z
210 KTS

15 4128 Z

15 4305 Z

15 4441 Z

15 4⁸3¹⁹8 Z

15 4819 Z

15 5120 Z

15 5437 Z

15 5555 Z

15 5752 Z

16 0058 Z

16 0210 Z

16 0404 Z

1021.8 mb

16 0712 Z

16 0847 Z

16 1021 Z

16 1330 Z

16 1457 Z

16 1627 Z

210 KTS

16 1938 Z

16 2139 Z

16 2321 Z

16 2631 Z

16 2753 Z

16 2940 Z

16 3309 Z

16 3430 Z

16 3602 Z

240 KTS

-2 Sec's

UNCAL

Time	A ₀₀	TT1	Δ	VDZ	Δ	A ₀₀ VD1	VD1	-Δ
115607	9.5	9.3	+0.2	-0.6		M	M	
120329	9.5	9.3	+0.2	-1.1		M	M	
121107	9.5	9.1	+0.4	-1.4		M	M	
121804	9.0	9.2	-0.2	-0.3		M	M	
122514	9.5	9.2	+0.3	-0.1		M	M	
123256	9.5	9.1	+0.4	0.0		M	M	
124016	9.5	9.2	+0.3	1.1		M	M	
124735	9.5	9.2	+0.3	1.3		M	M	
125529	9.5	9.2	+0.3	1.4		M	M	
135550	17.9	16.6	+1.3	11.6	-2.1	9.5	9.5	0.0
140338	17.9	16.6	+1.3	12.1	-2.2	9.9	9.8	+0.1
141049	17.9	16.5	+1.4	12.3	-2.4	9.9	9.9	0.0
141757	17.9	16.6	+1.3	12.3	-2.3	10.0	9.9	+0.1
142546	17.4	16.5	+0.9	12.3	-2.0	10.3	10.0	+0.3
143310	17.4	16.6	+0.8	12.5	-2.1	10.4	10.1	+0.3
144032	17.9	16.6	+1.3	11.9	-1.7	10.2	9.6	+0.6
144749	17.9	16.8	+1.1	12.0	-2.1	9.8	9.4	+0.4
145606	17.9	17.0	+0.9	11.6	-2.2	9.4	9.3	+0.1
154126	21.9	21.9	0.0	18.6	-1.3	17.3	16.1	+1.2
154817	21.9	22.1	-0.2	18.3	-1.6	16.7	16.1	+0.6
155435	21.9	22.1	-0.2	18.4	-1.7	16.7	15.9	+0.8
160056	22.4	22.2	+0.2	18.6	-2.3	16.3	16.1	+0.2
160710	22.9	22.3	+0.6	18.2	-1.9	16.3	15.8	+0.5
161328	22.4	22.1	+0.3	18.1	-1.5	16.6	16.0	+0.6
161956	22.9	22.5	+0.4	18.0	-1.2	16.8	16.1	+0.7
162629	22.9	22.6	+0.3	18.6	-2.5	16.1	16.0	+0.1
163307	22.9	22.6	+0.3	18.5	-1.9	16.6	16.2	+0.4

Stange
No. 100
2/27

Time	A ₂₀	A/C	Δ°	A ₂₀	A/C	Δ m/s
115607	267	249	+18	3.6	4.3	-0.7
120329	262	251	+11	3.9	4.1	-0.4
121107	258	239	+19	3.4	3.7	-0.3
121804	263	252	+11	3.9	4.0	-0.1
122514	266	252	+14	3.9	3.9	0.0
123256	259	242	+17	3.4	3.3	+0.1
124016	255	231	+24	3.2	3.1	+0.1
124735	253	237	+16	3.5	3.5	0.0
125529	263	251	+12	3.2	3.6	-0.4
135550	005	011	-6	9.7	10.3	-0.6
140338	005	014	-9	9.4	10.2	-0.8
141049	004	010	-6	9.7	10.5	-0.8
141757	007	007	0	10.0	10.2	-0.2
142546	001	002	-1	9.5	10.3	-0.8
143310	358	001	-3	10.2	10.7	-0.5
144032	005	000	+5	10.6	11.3	-0.7
144749	007	003	+4	10.1	11.3	-1.2
145606	001	006	-5	10.2	11.2	-1.0
154126	290	002	-72	0.3	2.3	-2.0
154817	297	346	-49	1.7	2.2	-0.5
155435	312	332	-20	2.2	2.9	-0.7
160056	328	337	-9	2.5	3.1	-0.6
160710	314	007	-53	2.2	3.2	-1.0
161328	007	001	+06	2.0	2.8	-0.8
161956	349	005	-16	1.0	2.9	-1.9
162629	014	028	-14	1.5	2.6	-1.1
163307	033	040	-7	2.7	2.8	-0.1

CAC

Time	Aero	TA1	Δ	TA2	Δ	Aero Ps	AC Ps	Δ
115607	9.5	9.3	+0.2	9.4	+0.1	699.9	700.7	-0.8
120329	9.5	9.3	+0.2	9.4	+0.1	699.9	700.9	-1.0
121107	9.5	9.1	+0.4	9.2	+0.3	700.0	700.8	-0.8
121804	9.0	9.2	-0.2	9.3	-0.3	700.0	700.7	-0.7
122514	9.5	9.2	+0.3	9.3	+0.2	699.9	700.4	-0.5
123256	9.5	9.1	+0.4	9.2	+0.3	699.8	700.4	-0.6
124016	9.5	9.2	+0.3	9.3	+0.2	699.8	699.9	-0.1
124735	9.5	9.2	+0.3	9.3	+0.2	699.9	700.0	-0.1
125529	9.5	9.2	+0.3	9.3	+0.2	700.0	700.0	0.0
135550	17.9	16.6	+1.3	16.6	+1.3	850.3	849.9	+0.4
140338	17.9	16.6	+1.3	16.7	+1.2	850.2	850.5	-0.3
141049	17.9	16.5	+1.4	16.6	+1.3	850.2	850.4	-0.2
141757	17.9	16.6	+1.3	16.6	+1.3	850.2	850.3	-0.1
142546	17.4	16.5	+0.9	16.6	+0.8	850.2	850.9	-0.7
143310	17.4	16.6	+0.8	16.6	+0.8	850.3	850.9	-0.6
144032	17.9	16.6	+1.3	16.6	+1.3	850.3	849.4	+0.9
144749	17.9	16.8	+1.1	16.8	+1.1	850.3	850.0	+0.3
145606	17.9	17.0	+0.9	17.0	+0.9	850.3	850.0	+0.3
154126	21.9	21.9	0.0	22.0	-0.1	980.0	979.9	+0.1
154817	21.9	22.1	-0.2	22.1	-0.2	979.9	980.3	-0.4
155435	21.9	22.1	-0.2	22.2	-0.3	979.9	979.8	+0.1
160056	22.4	22.2	+0.2	22.2	+0.2	980.0	979.9	+0.1
160710	22.9	22.3	+0.6	22.3	+0.6	979.8	979.8	0.0
161328	22.4	22.1	+0.3	22.2	+0.2	979.9	979.4	+0.5
161956	22.9	22.5	+0.4	22.5	+0.4	979.5	979.6	-0.1
162629	22.9	22.6	+0.3	22.6	+0.3	979.4	978.5	+0.9
163307	22.9	22.6	+0.3	22.6	+0.3	979.1	978.5	+0.6

95102417 READ

111100	0.0	0.0	50.6	31.6
112930	0.0	-0.2	49.7	51.2
115600	0.0	-0.7	29.3	16.1
122500	+0.3	-0.7	28.7	16.0
125530	+0.6	-0.5	29.6	16.1
132500	+1.4	-0.9	24.1	28.6
135530	+1.8	-0.7	28.7	16.1
142500	+2.4	-0.6	26.9	16.1
145600	+3.2	-1.1	29.2	16.1
151930	+3.6	-0.6	2.6	38.2
154130	+4.0	+0.1	30.0	16.1
160300	+5.1	-0.2	30.0	20.1
162300	+5.9	-0.6	26.9	21.4
① 171900	+7.1	+0.9	51.0	29.6

142546

163307

AA SLOPE	AA 105	PS
10E1 5.902	2.066	576
5.857	2.060	467
5.871	2.089	701
5.956	2.136	850
6.244	2.166	980

10E2		
5.910	2.111	576
5.863	2.096	467
5.885	2.141	701
5.975	2.191	850
6.262	2.232	980
$\bar{x} = 5.90816$	2.1345	

\bar{SA} SCOPE(10E2) 6.9298

FY 97 1.9 mil Got the money

Apr Show 15-17 March

Don't winter - Done before FY 98. - Winter storms.

Pre NAAE 18 April

NAAE 23 May

951024H N42RF Aerostat Calibration Flight

Aerostat Passes

Wind Racetracks

Time	Alt	TAS	Time	Heading	Alt	TAS
115607	701mb	180 knots	130617-130817	300	576 mb	180 knots
120329			131002-131202	120		
121107			131442-131642	300		240 knots
121804		210 knots	131857-132057	120		
122514						
123258			132807-133007 133202-133402 133902-134102 134235-134430	060	466 mb	180 knots
124016		240 knots		240		
124735				230		240 knots
125529				050		
135550	850 mb	180 knots	115430-115625 115820-120015	360	701 mb	180 knots
140338				180		
141049			125005-125200 125415-125550	180		240 knots
141757		210 knots		360		
142546						
143310			135410-135610 135755-135940 144635-144805 145005-145155	360	850 mb	180 knots
144032		240 knots		180		
144749				360		240 knots
145606				180		
154126	980 mb	180 knots	154310-154505	180	980 mb	180 knots
154817			154640-154835	360		
155435			162205-162330	180		240 knots
160056		210 knots	162530-162645	360		
160710						
161328			Formation Box			
161956		240 knots	Time	Heading	Alt	
162629			150145-150645	270	852 mb	
162307			150800-151300	180		
			151430-151930	090		
			152045-152545	360		

Yaw Maneuvers

134555-134705	466 mb
152810-152915	852 mb

Pitch maneuver

152930-153035	850 mb
---------------	--------

BP/DBP 0065 0.13389
DA 1.11302 1.32533
SA 5106 6.885348 6.894203

Nick M WF Tu Th off

3 Flights (1st week). Ben over worst case.
25-29 26th 3 Flights

Bond, Dick

SA Slope	10T	DA	SA Slope
10E1	PP/DBP		
406mb	0.0065	1.11302	6.88535
852mb	0.1339	1.3253	6.8942
10E2			
406mb	-0.0059	0.3823	6.9498
852mb	0.1429	1.0922	6.9098

