

920929I

TINA

19920929I - DROPS

E.6 Omega Dropwindsonde Scientist (On-Board)

The on-board lead project scientist (LPS) on each aircraft is responsible for determining the distribution patterns for ODW releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns often are required to be altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. The following list contains more general supplementary procedures to be followed. (Check off and initial.)

E.6.1 Preflight

- ☒ 1. Determine the status of equipment and report results to the on-board LPS.
- ☒ 2. Confirm the mission and pattern selection from the LPS and assure that the proper number and distribution (frequency) of ODW's are on board the aircraft.
- ☒ 3. Complete the appropriate preflight calibrations and check lists.

E.6.2 In-Flight

- ☐ 1. Operate the system as specified in the operator's manual.
- ☐ 2. Obtain drop release approval (for each drop) from the AOC flight director or navigator for each specific time and location of drop.
- ☐ 3. Report to the LPS as soon as it is determined that the ODW is (or is not) transmitting a good signal.
- ☐ 4. Report completion of each drop and readiness for the next drop.
- ☐ 5. Complete Form E-6.

E.6.3 Postflight

- ☐ 1. Complete the summary form for ODW's.
- ☐ 2. Brief the on-board LPS on equipment status and turn in reports and completed forms to the LPS.
- ☐ 3. Hand-carry all ODW data tapes and printouts and inform the AOC flight director that you are arranging delivery as follows:
 - a. Outside of Miami - to the HRD operations center (FGOC).
 - b. In Miami - to AOML/HRD (temporarily), either directly or via MGOC, for conversion to 9-track magnetic tapes.
- ☐ 4. Debrief at the appropriate operations center (FGOC or MGOC).
- ☐ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

#2

TEMP DROPWINDSONDE COMMUNICATION WORKSHEET

8/16/90

(MANOP HEADING)

UZNT13 KMIA -----

AIRCRAFT #/MISSION #
STORM NAME

NOAA -----

OB -- KMIA

XXAA	2	sp	80005	sp	99172	sp	71146	sp	79000	sp	26000	sp	14566	2 CR	
00111	sp	11111	sp	11111	sp	85399	sp	18835	sp	15068	sp	70045	sp	09800	2 CR
15562	sp	50577	sp	04501	sp	15566	sp	88999	sp	77495	sp	16064	sp	41111	2 CR
															1 LF

CNTR "T"

NOTE: SCRATCH OUT ALL UNUSED CODE BLOCKS ←

MONTH, DAY:

9/29/92

LAUNCH TIME (hhmm GMT):

2328

LAT (°N):

17 14.3

LON (°W):

114 33.3

LAUNCH PRESSURE (mb):

945.9

GA (M):

666.3

LAUNCH TEMP (°C):

-13.0

DEW PT (°C):

-8.6

DROP #

2

SONDE DATA

PRESSURE	TEMP (°C)	RH (%)	WD/WS (m/s)
400			
500	-4.5	99	155/34
600	3.1	100	
700	9.9	100	155/32
850	18.9	80	150/35
1000	26.0	100	145/34
SFC= 1000mb			

ODW SPLASH PR: 1000

HYDROSTATIC PR: _____

IF WIND .GE. 31 m/s IS OBSERVED ABOVE 500 mb:

MAX WIND (D/S): 160/33LEVEL (MB): 495

#1

TEMP DROPWINDSONDE COMMUNICATION WORKSHEET

8/16/90

(MANOP HEADING)

42 PM/3
UENT13 KMIA 292057ZAIRCRAFT #/MISSION #
STORM NAME

NOAA 3 WXYX TINA

OB 9 KMIA

XXAA	2	sp	79207	sp	99170	sp	71150	sp	79948	sp	25400	sp	22010	2CR	
00111	sp	11111	sp	11111	sp	85960	sp	20600	sp	02006	sp	70632	sp	15830	2CR
23504	sp	88999	sp	27999	sp		sp		sp		sp		sp		2CR
															1LF

CNTR "T"

NOTE: SCRATCH OUT ALL UNUSED CODE BLOCKS ←

MONTH, DAY: _____

LAUNCH TIME (hhmm GMT): 2018/4

LAT (°N): _____ LON (°W): _____

LAUNCH PRESSURE (mb): _____ GA (M): _____

LAUNCH TEMP (°C): _____ DEW PT (°C): _____

DROP #

SONDE DATA

PRESSURE	TEMP (°C)	RH (%)	WD/WS (m/s)
400			
500			
600			
700			
850			
1000			
SFC=			

ODW SPLASH PR: _____

HYDROSTATIC PR: _____

IF WIND .GE. 31 m/s IS OBSERVED ABOVE 500 mb:

MAX WIND (D/S): _____ LEVEL (MB): _____

TEMP DROPWINDSONDE COMMUNICATION WORKSHEET

8/16/90

(MANOP HEADING)

UZNT13 KMIA -----

AIRCRAFT #/MISSION #
STORM NAME

NOAA -----

OB -- KMIA

XXAA	2	sp	77207	sp	99170	sp	71150	sp	11111	sp	79953	sp	25400	sp	22010	2 CR
00111	sp	11111	sp	85004	sp	20600	sp	02006	sp	70676	sp	15830	sp	23504	1 LF	
88999	sp	77999	sp		sp		sp		sp		sp		sp		2 CR	
															1 LF	

CNTR "T"

NOTE: SCRATCH OUT ALL UNUSED CODE BLOCKS ←

MONTH, DAY: 9/29LAUNCH TIME (hhmm GMT): 2018/40LAT (°N): 17/00 LON (°W): 114 59.6LAUNCH PRESSURE (mb): 667.3 GA (M): 3040LAUNCH TEMP (°C): 15.2 DEW PT (°C): 10.7DROP #

SONDE DATA

PRESSURE	TEMP (°C)	RH (%)	WD/WS (m/s)
400			
500			
600			
700	15.8	82	234/02
850	20.5	100	022/03
1000			
SFC- 953	25.3	100	

ODW SPLASH PR: 953

HYDROSTATIC PR: _____

IF WIND .GE. 31 m/s IS OBSERVED ABOVE 500 mb:

MAX WIND (D/S): _____ LEVEL (MB): _____

403.5

404.5

405.5

TIME	PR	TEMP	HUM	ESTP	TIME	PR	TEMP	HUM	ESTP	TIME	PR	TEMP	HUM	ESTP
92/09/29	20:18:40			1HD6: 180	GS: 137	TK: 179	WS: 4	WH: 308						
TAS:	0	HDG:	0	MAG VHR:	1W	SINS: CDF6/H	QUAL: 6							
LAT:	17	3.6N	LN6:	114 58.3W										

SND 1 SIG LOSS HI 0

10	684	15.0	72	688
20	692	15.4	81	693
30	696	15.7	81	697
40	701	15.9	82	702
50	705	16.1	82	706
60	709	16.2	82	711
70	714	16.5	84	715
80	718	16.4	89	720
90	723	16.8	89	724
100	727	16.9	90	729
110	731	17.3	88	733
120	736	17.5	86	738
130	740	17.6	86	743
140	744	17.8	87	747
150	748	18.1	87	752
160	753	18.1	86	756
170	757	18.4	86	761
180	761	18.7	85	766
190	766	19.0	85	770
200	770	19.1	86	775
210	775	18.8	89	780
220	779	18.9	91	785
0110	DS 234D	2M/S	9	
230	782	17.9	100	789
240	787	17.9	100	794
250	791	18.1	100	799
0140	DS 221D	3M/S	9	
260	795	18.3	100	804
270	799	18.4	100	808
280	804	18.6	100	813
0170	DS 203D	1M/S	9	
290	808	18.7	100	818
300	812	18.9	100	823
310	817	19.1	100	828
0200	DS 179D	1M/S	9	
320	821	19.3	100	832
330	826	19.4	100	837
340	831	19.7	100	842
0230	DS 193D	1M/S	9	
350	835	20.0	100	847
360	840	20.0	100	852

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370 845 20.3 100 857
 0260 DS 229D 1M/S 9
 380 850 20.5 100 862
 390 854 20.7 100 867
 400 859 21.0 100 872
 0290 DS 212D 3M/S 9
 410 864 21.2 100 877
 420 869 21.5 100 882
 430 874 21.6 100 887
 0320 DS 231D 2M/S 9
 440 879 21.8 100 891
 450 884 22.1 100 897
 460 888 22.3 100 902

2

403.5
 TIME PR TEMP HUM ESTP
 0350 DS 239D 2M/S 9
 470 893 22.5 100 907
 480 898 22.7 100 912
 490 902 22.8 100 917
 0380 DS 227D 3M/S 9
 500 907 23.1 100 922
 510 912 23.3 100 927
 520 917 23.6 100 932
 0410 DS 236D 3M/S 9
 530 922 23.8 100 937
 540 926 24.1 100 942
 550 931 24.2 100 947
 0440 DS 234D 4M/S 9
 560 936 24.4 100 952
 570 941 24.6 100 958
 580 945 24.9 100 963
 0470 DS 228D 5M/S 9
 590 950 25.2 100 968
 SMD 1 S16 LOSS RT 596
 600 876 17.4 100 973
 610 826 19.7 100 978
 0500 DS 220D 5M/S 9
 620 725 17.6 100 984
 630 719 16.6 100 989
 640 1000 8.2 100 994
 0530 DS 074D 24M/S 0
 650 737 14.0 100 1000
 660 647 15.7 100 1005
 670 871 12.6 100 1010
 0560 DS 059D 87M/S 0
 680 605 18.1 100 1016

404.5
 TIME PR TEMP HUM ESTP

405.5
 TIME PR TEMP HUM ESTP

558 935 24.4 100
 560 936 24.4 100
 562 937 24.5 100
 564 938 24.5 100
 566 939 24.5 100
 568 940 24.6 100
 570 941 24.6 100
 572 942 24.7 100
 574 943 24.7 100
 576 943 24.8 100
 578 945 24.9 100
 580 945 24.9 100
 582 946 24.9 100
 584 947 25.0 100
 586 949 25.0 100
 588 950 25.2 100
 590 950 25.2 100
 592 953 25.3 100
 594 953 25.3 100
 596 874 25.6 100
 598 795 22.2 100
 600 876 17.4 100

CH 1 CLEAR

SONDE 01398 LAUNCHED 446MB -11.00

92/09/29 23:28:15 TADG: 247 GS: 147 TK: 260 WS: 33 WH: 162

TAS: 0 HDG: 0 MAG VAR: 10 STNS: CDG/H QUAL: 0

LAT: 17 19.3N LMG: 114 30.5W

(3)

1/1

LOGIN OPW/OPW

403.5
TIME PR TEMP HUM ESTP
SND 1 SIG LOSS HI 0

10	452	-7.6	64	450
20	460	-7.5	94	453
30	464	-7.1	99	457
40	468	-6.6	99	461
50	471	-6.2	99	465
60	476	-5.8	99	469
70	479	-5.5	99	472
80	484	-5.2	99	476
90	487	-5.4	99	480
100	491	-5.2	99	484
110	495	-4.9	99	488
120	500	-4.5	99	492
130	503	-4.6	99	496
140	507	-4.4	99	499
150	510	-4.0	100	503
160	514	-3.6	100	507
170	518	-3.0	100	511
180	521	-2.6	100	515
190	526	-2.4	100	519
200	530	-1.9	100	523
210	534	-1.4	100	527
0110	DS 160D	33M/S	9	
220	538	-1.3	100	531
230	543	-0.6	100	535
240	546	-0.8	100	539
0140	DS 155D	34M/S	9	
250	550	-0.7	100	543
260	553	-0.5	100	547
270	558	-0.3	100	551
0170	DS 151D	36M/S	9	
280	562	-0.1	100	556
290	566	0.1	100	560
300	569	0.2	100	564
0200	DS 153D	34M/S	9	
310	574	0.5	100	568
320	578	0.8	100	572
330	583	1.3	100	576
0230	DS 158D	31M/S	9	
340	587	1.7	100	580
350	591	2.1	100	585
360	595	2.7	100	589
0260	DS 160D	30M/S	9	
370	599	3.1	100	593
380	604	2.9	100	597
390	608	3.0	100	601
0290	DS 159D	31M/S	9	
400	612	3.3	100	606
410	617	3.6	100	610
420	621	4.0	100	614
0320	DS 156D	33M/S	9	

404.5
TIME PR TEMP HUM ESTP

405.5
TIME PR TEMP HUM ESTP

START S1395.DAT

430 625 4.2 100 618
 440 629 4.2 100 623
 450 633 4.4 100 627
 0350 DS 155D 33M/S 9
 460 637 4.8 100 631
 470 641 5.2 100 636
 480 645 5.5 100 640

4

LOS Vientos

403.5
 TIME PR TEMP HUM ESTP
 0380 DS 153D 35M/S 9
 490 648 5.9 96 644
 500 653 6.3 93 649
 510 657 6.6 96 653
 0410 DS 151D 33M/S 9
 520 661 7.0 96 658
 530 664 7.1 100 662
 540 668 7.6 100 666
 0440 DS 150D 33M/S 9
 550 672 7.9 100 671
 560 676 8.3 100 675
 570 678 8.5 100 680
 0470 DS 148D 34M/S 9
 580 682 8.9 100 684
 590 686 9.3 100 689
 600 690 9.5 100 693
 0500 DS 147D 36M/S 9
 610 694 9.6 100 698
 620 699 9.8 100 702
 630 703 10.1 100 707
 0530 DS 150D 33M/S 9
 640 708 10.6 100 711
 650 713 10.8 100 716
 660 718 11.1 100 721
 0560 DS 153D 32M/S 9
 670 723 11.2 100 725
 680 728 11.6 100 730
 690 733 12.0 100 734
 0590 DS 154D 31M/S 9
 700 738 12.4 100 739
 710 743 12.5 100 744
 720 748 12.1 100 748
 0620 DS 155D 32M/S 9
 730 753 12.1 100 753
 740 757 12.1 100 758
 750 762 12.5 100 762
 0650 DS 154D 35M/S 9
 760 767 12.9 100 767
 770 772 13.2 100 772
 780 776 13.6 100 776
 0680 DS 155D 36M/S 9
 790 781 14.2 100 781
 800 786 14.6 100 786
 810 791 14.9 100 791
 0710 DS 155D 35M/S 9
 SNB 1 S16 LDSS H1 816
 820 833 15.7 100 795
 830 801 15.3 100 800
 840 805 15.5 100 805
 0740 DS 153D 31M/S 4
 850 809 15.8 100 810

404.5
 TIME PR TEMP HUM ESTP

405.5
 TIME PR TEMP HUM ESTP

860 814 16.2 99 815
 870 818 16.6 95 819
 0770 DS 144D 29M/S 1
 880 823 17.0 92 824
 890 828 17.4 88 829
 900 832 17.7 85 834
 0800 DS 139D 25M/S 6

403.5
 TIME PR TEMP HUM ESTP
 910 837 17.9 83 839
 920 841 18.4 81 844
 930 846 18.7 80 849
 0830 DS 137D 30M/S 3
 940 852 19.0 80 854
 950 858 19.2 78 858
 960 864 19.6 79 863
 0860 DS 141D 35M/S 2
 970 869 20.0 79 868
 980 874 20.4 79 873
 990 880 21.1 78 878
 0890 DS 146D 37M/S 8
 1000 885 21.6 76 883
 1010 890 21.8 78 888
 1020 894 21.9 90 893
 0920 DS 149D 35M/S 9
 1030 899 21.1 100 898
 1040 904 20.8 100 903
 1050 909 20.7 100 908
 0950 DS 151D 34M/S 9
 1060 913 21.1 100 913
 1070 918 21.5 100 918
 1080 923 21.8 100 923
 0980 DS 152D 35M/S 9
 1090 928 22.4 100 929
 1100 933 22.8 100 934
 1110 937 23.1 100 939
 1010 DS 153D 37M/S 9
 1120 942 23.3 100 944
 1130 947 23.6 100 949
 1140 952 23.8 100 954
 1040 DS 153D 38M/S 9
 1150 957 23.7 100 959
 1160 962 23.9 100 965
 1170 966 24.2 100 970
 1070 DS 153D 38M/S 9
 1180 972 24.6 100 975
 1190 977 24.9 100 980
 1200 981 25.3 100 985
 1100 DS 149D 36M/S 9
 1210 986 25.5 100 991
 1220 991 25.8 100 996
 1230 997 25.8 100 1001
 1130 DS 145D 34M/S 9
 SND 1 S16 LUSS HT 1240
 1240 1001 26.0 100 1006

404.5
 TIME PR TEMP HUM ESTP

405.5
 TIME PR TEMP HUM ESTP

6

1208	985	25.5	100
1210	986	25.5	100
1212	987	25.5	100
1214	988	25.6	100
1216	989	25.5	100
1218	990	25.7	100
1220	991	25.8	100
1222	992	25.8	100
1224	993	25.9	100
1226	994	25.9	100
1228	996	25.9	100
1230	997	25.8	100

TIME	PR	TEMP	HUM	ESTP
1232	998	26.0	100	
1234	999	26.0	100	
1236	1000	26.0	100	
1238	1001	26.0	100	
1240	1001	26.0	100	
1242	1042	26.0	100	
1244	1023	26.0	100	
1246	1042	19.6	100	
1248	1042	24.4	100	
1250	849	20.4	100	

CH 1 CLEAR

TIME	PR	TEMP	HUM	ESTP
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TIME	PR	TEMP	HUM	ESTP
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STOP 51395.0AT