

U.S. DEPT. COMM. NOAA/OAO - DATA SECTION WORK FORM NO. 1 OROWF1 FILE

FLT ID: 990704I	FM: KBNA	TO: KBNA
FLT NO: 99-36	DLK IN: 0413Z	ATA: 0404Z
ETD: 2000Z	DLK OUT: 2017Z	RTD: 2027Z
ETE: 0330Z	BLK TIME: 7.56 7.9	FLT TIME: 7.37 7.6
SPONSOR ORG: NOAA/AL	PROGRAM: AECOP	PURPOSE: W. NASHVILLE

OAO PERSONNEL

AC KENNEDY, P ✓	SYS ENG LYNCH, T ✓
CP OMARA, T	DATA SYS HORN BROOK, C ✓
NAV RATHBUN, D ✓ / NEWMAN, S ✓	RADAR
FE BOST ✓	DT/ODW
RADIO	CLD PHYS
FD C2724K, S ✓	DOPPLER YOUNG, D ✓

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
HUBNER, M ✓	PI	NOAA-AL
HUBNER, G ✓	SCIENTIST	"
RYERSON, T ✓ / HUEY, G ✓	"	"
GOLDMAN, P / PARRISH, D ✓	"	"
JACKSON, J. / BARNETT, R	"	"
LEE, Y ✓	"	"
FLOCKE, F ✓	"	BROOKSVILLE
		NEAR

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

990704I

TIME	LT	GN	TK	HD	TA	TD	WD	WS	PA	GD	PS	SP	REMARKS
023728	36 36	87 49											LEVEL 2K
024320	36 39	88 14											PT 18
024549	36 49	88 15											PT 18
025221	36 50	87 46	323	318	24.0	18.3	186	11.6	856	832	914.5	1005.5	PT 19 + CLIMB
025950	36 50	88 09											PT 19 + CLIMB
030230	36 50	88 03	90	95	22.3	14.9	188	16.4	1139	1119	883.8	1005.5	LEVEL 4K
030600	36 50	87 47											PT 19
030800	36 58	87 45											PT 21
031407	37 00	88 10											PT 20 + DESCEND
031510	36 58	88 08											LEVEL 3K
032018	37 00	87 46	90	93	24.2	17.7	199	12.1					PT 21 + DESCEND
032138	37 03	87 46											LEVEL 2K
032735	37	88 12											PT 20 + CLIMB
033330	37 00	88 09	94	96	12.7	2.2	151	13.0	2828	2924	716.4	1004.2	LEVEL 9.5K

TIME	LOT	CIN	TR	HO	TA	TD	WD	WS	PA	GA	PS	SP	REMARKS
20430P	3617	8756	283	283	1.9	-12.8	108	12.5	4348	4546	589.2	1006.7	CLOUD ROSE 47P LEVEL 14.5 PA
204545	3616	8810											PT1
205730	3618	8816											DESCEND
210425	3616	8808	197	196	19.7	14.8	161	8.4	1214	1300	867.1	1004.7	5.8 PA CLOUD/HAZE TOP LEVEL 4.5 PA
210617													DESCEND
210815													LEVEL 2K PA
210857	3600	8815											PT A
211600	3551	8747											PT B
212102	3608	8745											PT 2'
212925	3616	8820											PT 1'
213845	3608	8745											PT 2 + DESCEND
214135	3608	8744	301	300	29.8	19.5	128	5.2	306	159	922.1	998.0	LEVEL 500 AGL
214925	3617	8818											PT 1
215948	3608	8744											PT 2 + CLIMB
220230	3608	8746	292	291	23.0	17.6	158	6.9	982	913	903.0	1000.2	LEVEL 3500 PA
220415	3610	8758											LEVEL 3000 PA
221008	3618	8818											PT 1
221940	3608	8745											PT 2 + CLIMB
222355	3611	8757	289	288	19.7	14.9	167	11.3	1384	1393	857.7	1001.2	LEVEL 4000 PA
222850	3618	8819											PT 1 + CLIMB
223019	3615	8819											LEVEL 5200 PA
223842													PT 2 + DESCEND
224105	3617	8745											PT 3
224155	3619	8748											LEVEL 2K PA
224940	3630	8820											PT 4
230150	3631	8731	91	92	27.4	20.5	242	4.4	536	434	950.7	1000.1	PT 5
230345	3638	8730											PT 6
231714	3639	8829											PT 7 + DESCEND
231838	3637	8827	48	50	30.3	20.3	187	9.8	252	154	983.4	999.7	LEVEL 500 AGL
233450	3639	8716											PT 6 + CLIMB
233800	3639	8720											LEVEL 3K PA
235330	3640	8829											PT 7 + CLIMB
235440	3641	8826	090		20.6	13.5	186	12.3	1307	1271	865.7	1000.7	LEVEL 4500 PA
001013	363												PT 6 + DESCEND
002300	3644	8650	286	285	27.8	20.0	184	3.2	554	466	948.5	997.7	LEVEL 2000 PA
002748	3649	8711											PT 8
0045	3650	8829	270	268									PT 9
004753	3659	8831	356	355									PT 10
010145	3700	8730	89	91	27.0	20.3	205	9.3	552	454	948.7	998.3	PT 11
010723	3714	8730											PT 12
012100	3715	8829	272	269	27.0	19.9	199	10.2	552	459	948.7	998.0	PT 13

NOAA • AOC • SED Flight Performance Log

Aircraft : N43RF

Project : Ozone '99

Mission : Ozone #3SED Crew: Lynch, HornbrookFlight ID : 990704FPre-Flight: 17:30Take-Off: 2026Landing: 0403

System			Pre-Flight	In-Flight	Post-Flight		
N A V	INE #1	Aligned to : <u>00</u>	<u>✓ TL</u>		<u>-1.3</u>	<u>+0.7</u>	<u>0</u>
	INE #2	Aligned to : <u>00</u>	<u>✓ TL</u>		<u>+4.9</u>	<u>-1.0</u>	<u>3</u>
	GPS		<u>✓ TL</u>		Lai	Long	GS
R A D A R	Nose		<u>✓ TL</u>				
	L/F	R/T SN: <u>103</u>	<u>✓ TL</u>				Mod Switch Off? <u>✓ TL</u>
	MARS Data System		Clean DAT? <u>✓ TL</u>				# DATs: <u>1</u>
T E M P	Cal High	Cal Low			Cal High	Cal Low	
	Temp #1	<u>31.0</u>	<u>-30.3</u>	<u>✓</u>		<u>+30.7</u>	<u>-30.3</u>
	Temp #2			<u>✓</u>			
P R E S S	Dewpoint #1		<u>✓</u>				
	Dewpoint #2 (AOC)		<u>✓</u>				
	Attack Angle (AP/DAP)		<u>✓</u>				
	Slip Angle (BP/DBP)		<u>✓</u>				
	Differential (PQ1/PQ2/PQ3/PQ4)		<u>✓</u>				
	Absolute (PS1/PS2)		<u>✓</u>				
	Radome Transducers		<u>Plugs?</u>				
	Cabin Transducer (Station 5)		<u>✓</u>				
	Apn-159	SN: <u>SW 71-01</u>	<u>✓ TL</u>				Off?: <u>✓ TL</u>
	Apn-232	SN: <u>1699</u>	<u>✓ TL</u>				Off?: <u>✓ TL</u>
F L T L V L	J&W Liquid Water		<u>✓ OFF</u>				
	Lyman Alpha Hygrometer		<u>Plugs?</u>				Plugs?:
	Down PRT-5 (SST)		<u>✓</u>				
	Side PRT-5 (CO ₂)		<u>✓</u>				
	RAMS Data System		Clean DAT? <u>✓ TL</u>				# DATs: <u>2</u>
	F/D Laptop		<u>✓</u>				Off?
	C.I. Printer		<u>✓</u>				
M I S C	ASDL		<u>✓</u>				Off?: <u>✓ TL</u>
	Eppl Radiometers (PSP / PIR)		<u>✓</u>				
	Exterior Walk Around		<u>✓</u>				
	Video	<u>(N I R O)</u>	<u>✓ TL</u>				Lens Covers?: <u>✓ TL</u>
	AVAPS		<u>N/A</u>				# Tapes: <u>N/A</u>
	GPS Digital Dropsondes (GD ²)		# On Board: <u>N/A</u>	# Dropped: <u>N/A</u>			# Good: <u>N/A</u>
	FCU	<u>A B C</u>	<u>✓ TL</u>				UPS Off?: <u>✓</u>
U S E R	Wing Pods - Bolts & Covers		<u>✓ TL</u>				Accelerometers
	Zenith SAFS Radiometer		Secure? <u>✓</u>				#1 (2 G): <u>8190</u>
	Pump Bay Temp Sensor		<u>✓ TL</u>				#2 (2.5 G): <u>6686</u>
	Window Inlet Covers		Removed? <u>TL</u>				#3 (3 G): <u>5967</u>
	CO & NO Alarm Operational		Test? <u>✓ TL</u>				#4 (3.5 G): <u>2892</u>
	CO & NO Gas PSI Check		Start PSI: <u>360</u>				End PSI: <u>340</u>
	All Gas Cylinders Secure		Mounting? <u>✓</u>				Valve Closed?

Gas Cylinders located in:

- (3) C1/C2 Cabinet
- (1) B3 Cabinet
- (3) Bookcase Sidewall
- (3) Station C3X
- (1) Station 2 Sidewall
- (3) Station 3
- (5) Aft Bottle Rack
- (3) Station 6
- (2) Station 7 Sidewall

Please Note any Discrepancies

[illegible]

NOAA • AOC • SED
N43RF DATA STATION LOG

Project : Ozone '99

Mission : Ozone #3

Flight ID : 990704I

Operators : _____

Take Off : 2026

Landing : 0403

RAMS DAT 1 On (8/9) : <u>2016</u>	RAMS DAT 1 Off : <u>0412</u>	Data : <u>Slow</u> <u>Fast</u> AVAPS
RAMS DAT 2 On (8/9) : <u>2017</u>	RAMS DAT 2 Off : <u>0412</u>	Data : <u>Slow</u> <u>Fast</u> AVAPS
RAMS DAT 3 On [8/9] :	RAMS DAT 3 Off :	Data : Slow Fast AVAPS
Printer On :	Printer Off :	
MARS DAT 1 On (8/9) : <u>2040</u>	MARS DAT 1 Off : <u>0408</u>	CPU Selected : <u>A</u> B
MARS DAT 2 On [8/9] :	MARS DAT 2 Off :	VCR's Used : <u>N</u> <u>L</u> <u>R</u> <u>DO</u>
MARS DAT 3 On [8/9] :	MARS DAT 3 Off :	VCR Mode : <u>VHS</u> S-VHS 2/12
PMS DAT 1 On : <u>—</u>	PMS DAT 1 Off :	
PMS DAT 2 On : <u>—</u>	PMS DAT 2 Off :	
PMS DAT 3 On : <u>—</u>	PMS DAT 3 Off :	
VCR Tape 1 On : <u>2015</u>	VCR Tape 1 Off : <u>0406</u>	
VCR Tape 2 On :	VCR Tape 2 Off :	
VCR Tape 3 On :	VCR Tape 3 Off :	

CARCAH Tasking

Mission Number : N/A

Storm Name : _____

Data Station Operator Notes

DATE : 7/4/99

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N43RF ON 04137 BLOCKTIME
OFF 2017Z 7.9

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: AIR CHEMISTRY (AESOP)

Hazardous Duty Pay is required for flight made on 7/4/99
(DATE)

Request based on HAZARDOUS MATERIALS ONBOARD

Personnel on board authorized Hazard Pay:

CZYZYK, S

BAST, G

YOUNG, D

HORN/BROOK, C

LYNCH, T

PILOT/FLIGHT DIRECTOR: [Signature]

APPROVED: _____

DISAPPROVED: _____

CHIEF, AOC FLIGHT OPERATIONS: _____

990704I

RENAN

211200, -0.2, -0.1	35 56.6	-88 3.9
220000, 0.2, 0.0	36 8.0	-87 42.8
222400, 0.0, 0.0		
230400 0.1, 0.0	36 38.5	-87 30.4
234900, -0.1, 0.0	36 39.0	-88 9.2
005000, 0.0, 0.0		
014000, -0.5, 0.1	36 14.6	-88 33.5
022600, -0.5, 0.0	36 38.9	-87 56.6
030300, -0.7, 0.3	36 50.0	-88 0.6
041200, -1.3, 0.8	36 7.2	-86 40.6

RA-159 SET TO ZERO 2016:01 - 2026:50 X
 REPLACE W/232 2026:50 - 2028:55 X
 RA-159 REPLACE W/232 0403:09 - 0412:00 X

DWZ PROBS > 1651:00 - 1654:00

DWZ 0356:37 - 0356:41 X

INE1, DP2, TT2

Flight plan : 4 July 1999
Cumberland and Johnsonville Power Plant Study
Transition into the night



