

FLT ID: 950701H	FM: KBNA	TO: KBNA
FLT NO: 95-021	BLK IN: 2328	ATA: 2324Z
ETD: 1700Z	BLK OUT: 1650Z	ATD: 1659Z
ETE: 6+30	BLK TIME: 6+38 (6.6)	FLT TIME: 6+25 (6.4)
SPONSOR ORG: NOAA	PROGRAM: OZONE 95	PURPOSE: FG# 9

DAO PERSONNEL

AC: PHILIPSBORN ✓	SYS ENG: BARR ✓
CP: OMARA ✓	DATA SYS: PRADAS ✓
NAV: RATHBUN ✓	RADAR:
FE: TORLEY	BT/ODW:
RADIO: ARWASON ✓	CLD PHYS:
FD: BOGERT ✓	DOPPLER:

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
31: LEBLER ✓	P.T.	CU/CRES/NOAA
SHERIDAN ✓		
RYERSON ✓		
KUSTER ✓		
ROBERTS - Lee ✓		
HOLLOWAY - JOHNSON ✓		
47: _____	16 S.O.B.	

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

QNH - 3005/1017.0mb
 PS - 996.0 mbs
 SP - 994.8 mbs

QNH - 2999/1015mb
 PS - 994.3mb
 SP - 995.1mb

GPS + @ 1702Z TO INE2 ...
 T.O. GPS + 1820Z ON DATA SYS...
 LYMAN ALPHA TO SETTING #4
 @ 1724Z...

2256Z D.P. BAL ...

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

FLT ID: 950701 FI TIME OFF: 1659Z TIME ON: 2324Z

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

PMS DAT

AXBT

АХСР

ODW

PHOTOGRAPHY

FWD

LS

RS.

VERT

ON

OFF

RATE

REMARKS

950701H

Time	LAT	LONG	TRK	Wd	Ws	Ta	Td	PA	Ga	SP	Ps	PQ
170830Z	@ 12K	MSL	END	17	35Z							
174130Z	@ 1.5K	AGL										
181715Z	@ 17K	MSL										
1824	37 08	86 23	223	266	7.4	8.2	1.8	2585	2423	987	751	73.7
192730Z	@ 2000	MSL										
1950Z	@ .5K	AGL - PT. "F"										
195445Z	@ 8K	MSL										
202830Z	@ .5	AGL & CLIMB'G TO 10K	MSL									
203430Z	@ 12K	MSL										
205240Z	@ 7K	MSL										
2102Z	35 36	87 30	086	241	7.2	11.8	-3.0	2110	1977	988	784	61.6 (2K)
2108Z	@ 3K	AGL										
2118Z	35 36	88 14	268	031	9.0	16.5	13.3	997	933	018	819	53.2 (3K)
212315Z	@ 1K	AGL										
223530Z	@ .5	AGL & SPIRAL TO 17K	MSL									
2247Z	@ 17K	MSL	END	2305Z	→							
2308	35 44	87 40	057	287	23	-2.4	-2.0	4270	4270	990	605	81.6 ENA...

CNR BNA

OZONE-95

FLIGHT #09 950701H Sub. Reg. Flt.

TYPE OF DATA

SENSOR OR OPTION

INE	2
Accelerometer	2
Temperature probe	1
Altitude change option (for vertical winds)	PA
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO2951.CON
Notes:	

There were no time/data gaps on this flight.

The aircraft INE#2 positions were renavigated utilizing 10 GPS positions.

Lyman Alpha reset to position #4 at 172400Z.

F/D balanced the dewpointer at 225600Z. Data despiked/patched...

GPS down at takeoff until 182000Z. (Data system on INE#2).

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

	Take off	Landing
	-----	-----
Aircraft static pressure	996.0mb	994.3mb
Corrected tower pressure	1017.0mb	1015.0mb

Flight Meteorologist: Philip D. Bogert, (813) 828-3310 X3072

Ine #2

950701H

① 182100Z	3718.3	-0.3
	8610.9	+0.2

② 190300Z	3658.4	-0.7
	8811.4	+1.2

③ 193000Z	3630.3	-0.4
	8659.8	+1.7

④ 200100Z	3616.1	-0.9
	8600.0	+0.5

⑤ 202700Z	3547.2	-1.0
	8726.9	+1.4

⑥ 204900Z	3536.0	-0.9
	8819.5	+2.1

⑦ 212100Z	3537.1	-1.6
	8827.5	+1.3

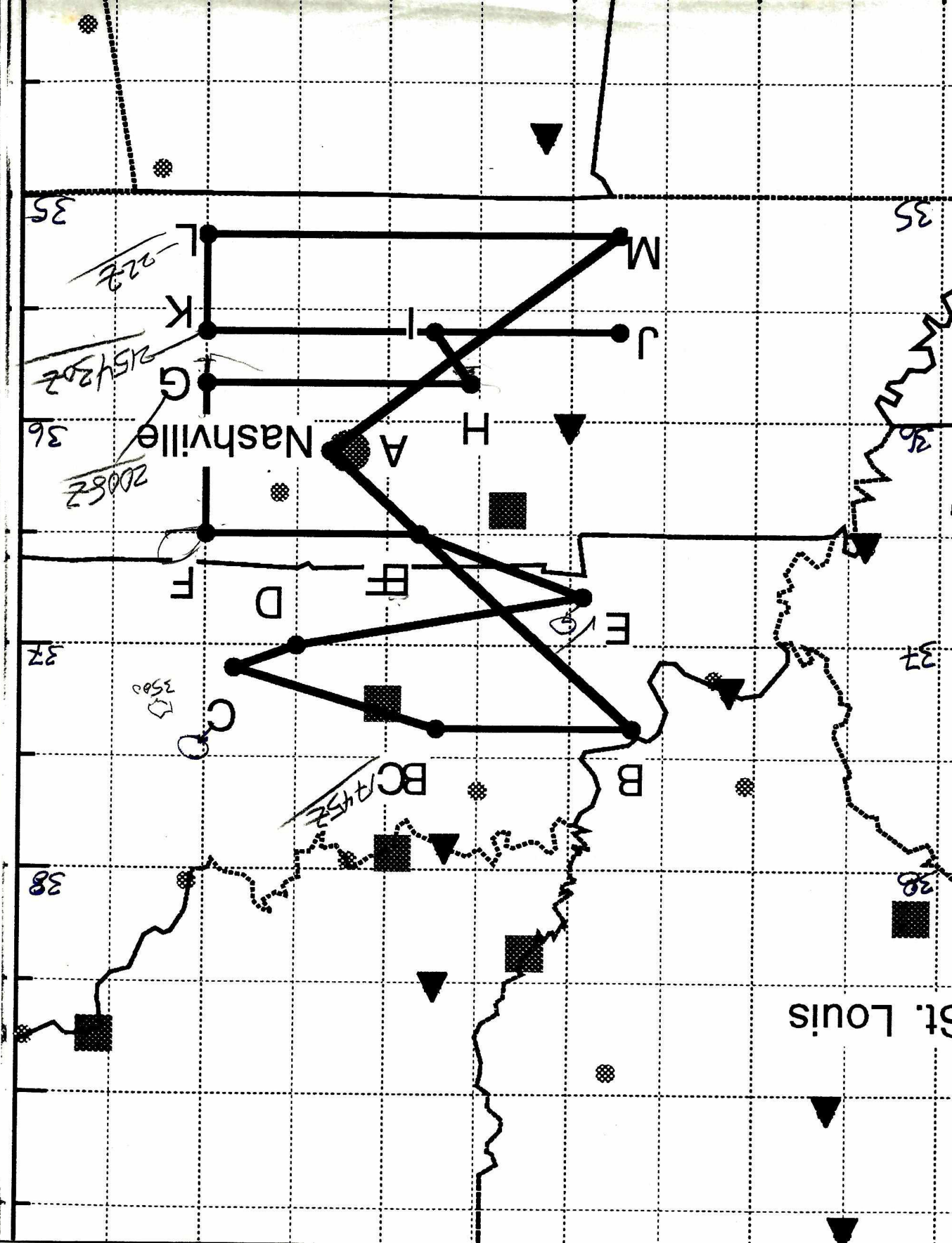
⑧ 215300Z	3538.0	-1.3
	8601.5	+3.0

⑨ 223500Z	3510.6	-1.7
	8831.0	+2.3

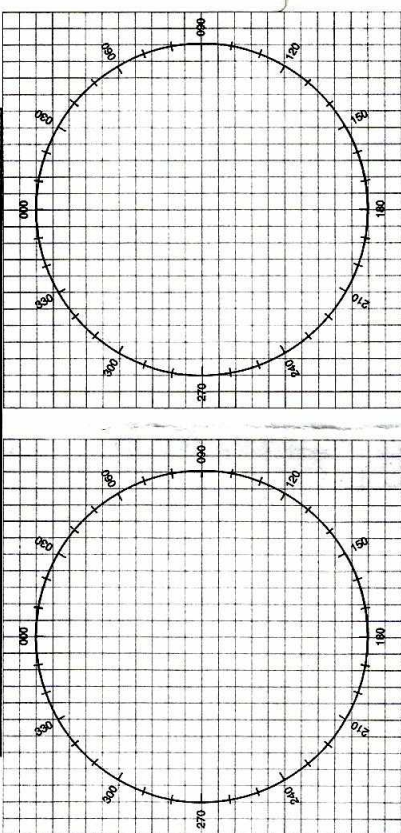
⑩ 230800Z	3608.5	-1.6
232400Z	8636.8	+4.2

Investigator Crew for Flight #10 (July 1, 1995)

Aerosols	Pat Sheridan	
NO/NO _x /NO _y /NO _y *	Tom Ryerson	
HC/GC	Bill Kuster	NOAA staff
Radon		
PAN	Jim Roberts	NOAA staff
Carbonyls	Yin-Nan Lee	
SO ₂ , CO, O ₃	John Holloway	
H ₂ O ₂	Tom Jobson	
Datasystems		
Ops	Gerd Hübler	
Total	8 seats	



CLEARANCES			
FREQ	ALT	HDG	OTHER



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 243.0

VHF/VOICE 121.5

MF/VOICE 2182 KHZ

HF/CW 8364 KHZ

500 KHZ

MAYDAY, MAYDAY, MAYDAY

THIS IS NOAA

NOAA

NOAA

POSITION

HEADING

AT

FLIGHT LEVEL OR ALTITUDE

WE ARE A P-3 AIRCRAFT WITH

NATURE OF EMERGENCY

ASSISTANCE DESIRED

PILOT INTENTIONS

ENDURANCE REMAINING

N/S

E/W

AT

Z

TRUE/MAG

KTS

SOULS ON BOARD

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1643																				ENG. START TAXI
1650																				
1658																				TAKOFF
1728		GPS INOP	3724.3 8825.1		3724.5 8824.7			088	0	088	252	278	12	12K	234	0C				OUTBOARD POINT B TURN
1745		↓	3721.9 8715.4		3722.3 8716.1			103	1R	104	212	305	10	15K	208	C				POINT C
1801		↓	3709.9 8606.0		3710.3 8606.9					CIRCLING				UP						POINT C
1821	GPS FM1	3718.0 8611.1	3718.2 8611.5	-1.2 -1.4	3718.3 8610.9	-1.3 -1.2		223	3L	220	262	274	16	↓	↓	D				POINT C → D
1903		3657.7 8812.6	3658.0 8811.1	-1.3 +1.5	3658.4 8811.4	-1.7 +1.2				CIRCLING				UP		EF				POINT E
1930		3629.9 8701.5	3630.1 8658.8	-1.2 +2.7	3630.3 8659.8	-1.4 +1.7										F				MISSING EF → F
1950		3629.1 8557.7	3629.7 8557.8	-1.6 -1.1	3629.9 8556.9	-1.8 +1.8				CIRCLING				UP		G				POINT F
2001		3615.2 8600.5	3615.8 8601.7	-1.6 -1.2	3616.1 8600.0	-1.9 +1.5		184	2L	182	241	270	10	8K	241	G				→ G
2027		3546.2 8728.3	3546.4 8727.2	-1.2 +1.1	3547.2 8726.9	-1.0 +1.4				CIRCLING				UP		I				POINT H
2035		3539.7 8717.1	3539.9 8714.3	-1.2 +2.8	3540.5 8715.0	-1.8 +2.1		209	2L	207	215	289	18	12K	228	J				POINT I TURN 70
2049		3535.1 8821.6	3535.7 8818.2	-1.6 +3.4	3536.0 8819.5	-1.9 +2.1		095	0	095	222	230	07	7K	217	→ E				J → I ↓ 70K
2101		3535.9 8721.8	3537.2 8718.9	-1.3 +2.9	3537.2 8719.6	-1.3 +2.2		208	2L	206	201	019	7	3K	201	→ J				I → J 3K
2121		3535.5 8828.8	3536.8 8820.3	-1.3 -1.5	3537.1 8827.5	-1.6 +1.3		012	2R	004	223	344	10	1K	227	→ K				J → K ↓ 1K
2153		3536.7 8604.5	3537.3 8601.7	-1.6 +2.8	3538.0 8601.5	-1.3 +3.0		182	1L	181	245	348	14	1K	234	L				K → L

PAGE _____ **OF** _____

(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

[illegible]