

FLT ID: 950717H	FM: KBNA	TO: KBNA
FLT NO: 95-030	BLK IN: 2143Z	ATA: 2135Z
ETD: 1500Z	BLK OUT: 1522Z	ATD: 1533Z
ETE: 6+00	BLK TIME: 6+21 (6.3)	FLT TIME: 6+02 (6.0)
SPONSOR ORG: NOAA	PROGRAM: Ozone 95	PURPOSE: FLT. # 17

DAO PERSONNEL

AC Phil. P. S. Borat ✓	SYS ENG BARR ✓
CP O'Mara ✓	DATA SYS PRASAS ✓
NAV RATHBUN ✓	RADAR
FE Wade ✓	BT/ODW
RADIO ARNASON	CLD PHYS
FD BOBERT ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
31 Hubler	P.I.	CU/CIRC/NOAA
Sheridan		
Williams		
Ryerson		
KUSTER - Lee		
Lolloway - JOHNSON		
4 Enslie, Gordon ✓		U. ALA. - Phy. Dept.

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

17 S.O.B.

QNH - 2998 / 1015 mb
 PS - 993.3
 SP - 993.0 mbs

QNH - 2991 / 1013.1 mb
 PS - 990.2
 SP - 988.3

D.R. BAC 1814Z,

U.S. DEPT. COMM./NOAA/ORA - DATA SECTION WORK FORM NO.2 OROWF2 FILE

FLT ID: 950717H TIME OFF: 1533 Z TIME ON: 2135 Z

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

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	1			
FAST FLT LVL TAPES	0			
RADAR TAPES	0			
DOPPLER TAPES	0			
ODW CASSETTES	0			
HARD COPIES	0			
PMS DAT	1			
AXBT	0			
AXCP	0			
ODW	0			

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON	✓	✓	✓	✓	
OFF	✓	✓	✓	✓	
RATE					

REMARKS

950717L

Time	Lat	Long	TRK	wd	ws	Ta	Td	PA	Ga	Sp	PS	PQ
154330Z		@ 12K	MSL			END 1605Z			13K	@ 130550Z		
1559Z	37 42	86 40	359	288	26	4.4	1.0	3635	3715	005	646	76.6 (12K)
161930Z		@ 10.5K	AGL	*		1644Z		@ 15K	MSL			
1721Z	39 23	84 08	116	285	13.7	24.1	19.7	691	480	982	933	70 (1.5K)
1807	38 29	85 11	360	286	9.3	24.4	19.4	688	444	981	933	63 (1.5)
181630Z	PTG	10 500'	* CLIMB	15K								
182830Z		@ 15K				1840Z		@ 1.5K	AGL			
193830Z		@ 5K	AGL									
1955Z		@ 11K	MSL									
1956	36 30	85 46	192	320	18.3	6.5	3.7	3370	3352	—	668	75.5 (11K)
201030Z		@ 17K	MSL									
2108	35 32	85 45	178	309	11.2	18.0	15.2	1711	1431	965	1281	64.4 (5K)

2130Z

2nd Science

11

OZONE-95

FLIGHT #17 950717H Regional Flt.(BNA-IND/OH-BNA)

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
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 was one time/data gap at 153500Z - 153510Z.

The aircraft INE#2 positions were renavigated utilizing 12 GPS positions.

The dewpointer was balanced at 1814Z; data despiked and patched.

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	993.3mb	990.2mb
Corrected tower pressure	1015.0mb	1013.1mb

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

INC # 1

* — RENAV — *

950717N

① 155200Z	3717.8 8639.4	-0.2 +0.3
② 162600Z	3933.1 8638.8	-0.7 +1.2
③ 170300Z	3957.2 8529.2	-0.4 +1.3
④ 172300Z	3919.5 8400.0	±0 +1.2
⑤ 173400Z	3840.2 8354.9	+0.3 +1.5
⑥ 180800Z	3833.3 8509.1	+0.4 +1.6
⑦ 183600Z	3854.5 8522.4	-0.1 +1.7
⑧ 191200Z	3651.6 8558.4	+1.4 +1.7
⑨ 195300Z	3634.5 8549.1	+1.4 +1.1
⑩ 201600Z	3615.9 8544.2	+1.7 +2.6

⑪ 2100002

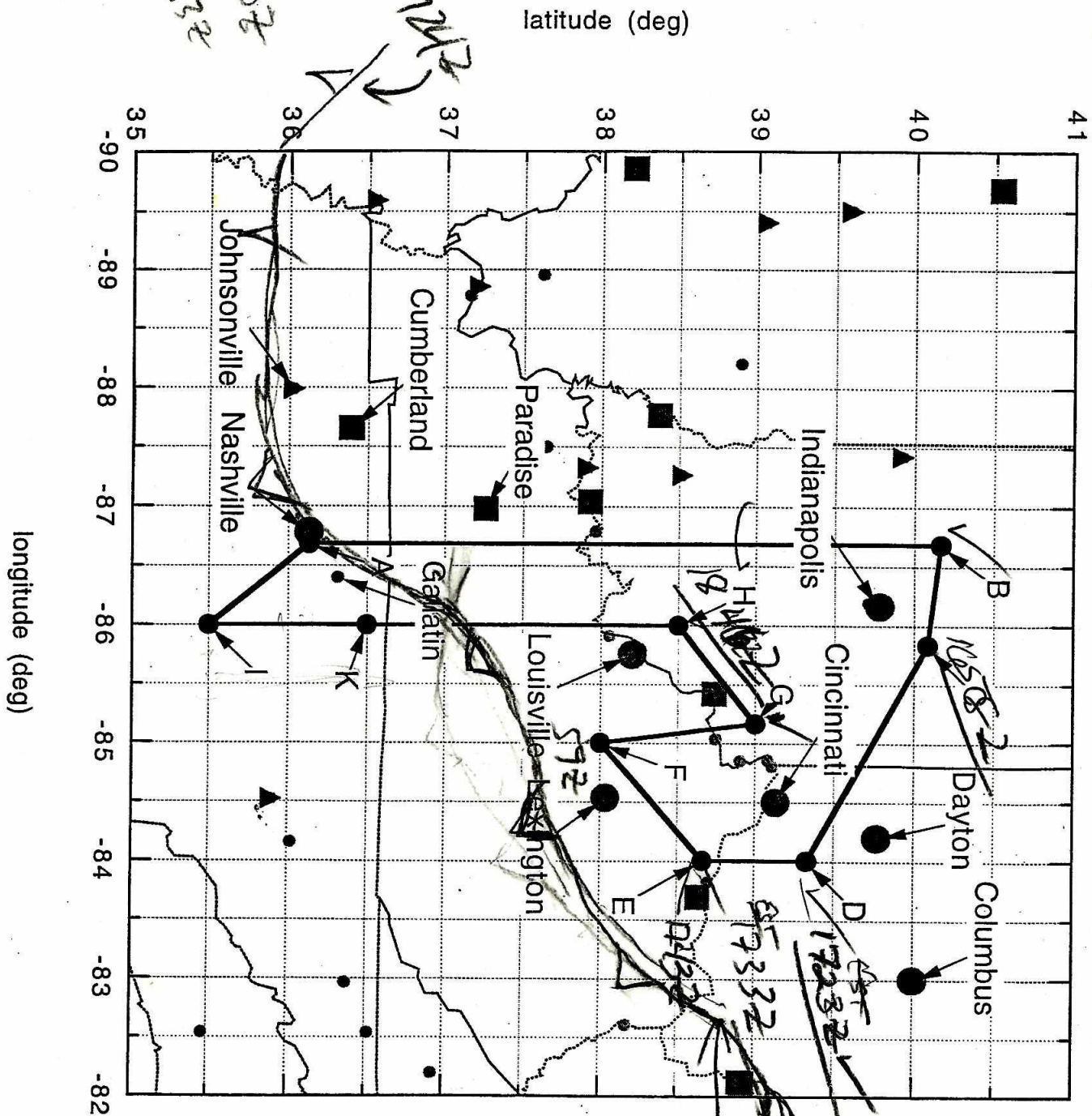
3556.2 + 2.7
8544.9 + 0.3

⑫ 2135002

3604.8 + 3.1
8638.7 + 2.2

D

14 July 1995, Indiana & Ohio, Nashville



FnoX>=5E24
FnoX>=1E25
FnoX>=2E25

~17302

Investigator Crew for Flight #18 (July 17, 1995)

Aerosols	Pat Sheridan	
NO/NOx/NOy/NOy*	Tom Ryerson	
HC/GC	Bill Kuster	NOAA staff
Radon	—	
PAN	Jonathan Williams	
Carbonyls	Yin-Nan Lee	
SO2, CO, O3	David Parrish John Holloway	NOAA staff
H2O2	Tom Jobson	
Datasystems	—	
Ops	Gerd Hübler Andrea Stacey A. Gordon Emslie	
Total	9 seats	

CLEARANCES

FREQ	ALT	HDG	OTHER

MISSION LOG

PAGE 1 OF 1

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 121.5 243.0

VHF/VOICE 2182 KHZ

HF/CW 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

WE HAVE

N/S

E/W

AT

Z

TRUE/MAG

KTS

SOULS ON BOARD

ENDURANCE REMAINING

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
1517																				ENGINE START
1521																				TAXI
1532	GPS	3717.6	3717.8	-1.2	3718.3	-1.7														TAXI
1552	FPI	8639.7	8639.4	+1.3	8639.5	+1.2														A7B
1626		3932.4	3933.1	-1.7	3932.8	-1.4														
		8640.0	8638.8	+1.2	8638.9	+1.1														
1703		3956.8	3957.2	-1.4	3957.0	-1.2														
		8530.5	8529.2	+1.3	8528.8	+1.7														C7D
1723		3919.5	3919.5	0	3920.1	-1.6														
		8440.2	8440.0	+1.2	8439.4	+1.8														
1734		3840.5	3840.2	+1.3	3840.8	-1.3														
		8356.4	8354.9	+1.5	8355.2	+1.2														
1808		3833.7	3833.3	+1.4	3833.1	+1.6														
		8510.7	8509.1	+1.6	8509.9	+1.8														
1836		3854.4	3854.5	-1.1	3854.0	+1.4														
		8524.1	8522.4	+1.7	8521.3	+2.8														
1846		3830.6	3830.4	+1.2	3830.0	+1.6														
		8558.4	8557.4	+2.0	8557.1	+2.3														
1912		3653.0	3651.6	+1.4	3652.0	-1.4														
		8600.1	8558.4	+1.7	8559.4	+1.7														
1953		3635.9	3634.5	+1.4	3635.2	+1.7														
		8550.2	8549.1	+1.1	8548.1	+2.1														
2016		3617.6	3615.9	+1.7	3615.3	+2.3														
		8546.8	8544.2	+2.6	8544.9	+1.9														
2100		3558.9	3556.2	+2.7	3556.8	+2.1														
		8545.2	8544.9	+1.3	8544.1	+1.1														
2135		3607.9	3604.8	+3.1	3604.1	+3.8														
		8640.9	8638.7	+2.2	8639.2	+1.7														LAND

295/15