

FLT ID: 950706 II	FM: KBNA	TO: KBNA
FLT NO: 95-023	BLK IN: 0036Z	ATA: 0030Z
ETD: 2100Z	BLK OUT: 2050Z	ATD: 2058Z
ETE: 3+30	BLK TIME: 4+46 (4.8)	FLT TIME: 4+32 (4.5)
SPONSOR ORG: NOAA	PROGRAM: OZONE 95	PURPOSE: FLT #10

QAO PERSONNEL

Intercomparison w/G1

AC PHILIPSON ✓	SYS ENG BARR ✓
CP O'MARA ✓	DATA SYS
NAV RATHBUN ✓	RADAR
FE TORREY ✓	BT/ODW
RADIO ARNOLD ✓	CLD PHYS
FD ROBERT ✓	DOPPLER McFadden ✓

PARTICIPATING SCIENTIST/VISITORS/QAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
31 Dübler	P.I.	ce/cires/NOAA
Sheridan - Zhou		"
Pryor - Kuster		"
Farmer - Williams		
HARRISH - JOHNSON		
Fischfeld - Verhulst		
E. COWLING		
47 L. NEWMAN		

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

21S.O.B.

QNH - 3012/1019.3 mb	3009/1018.4 mb
PS - 997.6	993.8 mb
SP - 997.1	1003.3 mb

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

FLT ID: 950706H TIME OFF: 2058Z TIME ON:

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

Ø

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

Ø

HARD COPIES

Ø

PMS DAT

AXBT

Ø

AXCP

Ø

ODW

Ø

PHOTOGRAPHY

FWD

LS

RS

VERT

ON

OFF

RATE

REMARKS

950706 II

Time	LAT	LONG	TRK	Wd	Wt	Ta	Td	PA	GA	Sp	As	PQ
2107	12 K MSL											
2118	35 01	87 25	354	282	24.7	2.8	-11.8	3595	3556	991.3	649.5	65.9
213730Z	@ 9 K MSL											
220230Z	@ 8 K MSL @ PT WS -											
2212	35 17	87 21	013	289	26.6	10.1	1.2	2384	2240	985.9	758	70.
2235Z	@ 2.5 K MSL											
	@ 2.0 K MSL											
230530Z	@ .5 AGL - 10 K MSL @ 231150Z											
2327Z	@ 15 K MSL END @ 00Z ... ENR BNA											
2357	35 23	87 23	180	299	25.4	1.5	-321	4528	4483	978	575	68.2

ENR
BNA

OZONE-95

FLIGHT #11 950706H I.C. w/ G1 acft.

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 were no time/data gaps on this flight.

The aircraft INE#1 positions were renavigated utilizing 05 GPS positions.

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	997.6mb	993.8mb
Corrected tower pressure	1019.3mb	1018.4mb

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

Inc #1

950706 H

① 212700z 3540.2 ✓ -0.3
8721.8 ± 0

② 222000z 3546.0 -0.2 ✓
8712.8 -0.1

③ 230800z 3502.1 -0.5 ✓
8716.6 ± 0

④ 233900z 3555.9 +0.1
8722.6 -0.1

⑤ 003000z 3607.3 +0.2 ✓
8640.8 +0.2 ✓

G1 = 701 BN

Intercomparison with G1 7/06/95

Point A : Nashville, Metropolitan Airport (36 08 N, 86 41W)

Close Doors : 14:40 CDT

Takeoff: 15:00 CDT

Calibration at 12 kft for 25 min, observer calls

Head direction of Pt. WS (35 00N, 87 30W)

At Pt. WS head direction of Pt. WN (36 15N, 87 30W) stay at constant altitude for calibration and return to Pt. WS

At 16:35 descend to

continue flight between Pt. WS and Pt. WN. Return to Pt. WS at 17:00

9 kft MSL

Intercomparison with the G1

between WS(35 00N, 87 30W) and WN (36 15N, 87 30W)

at 2 heights, 6 kft MSL, 2.5 kft MSL

Rendezvous with G1 at 16:00 at WS at

At 16:05 head direction of Pt. WN

HC sample : 16:10-16:15

HC sample : 16:25-16:30

At Pt. WN descend to 2.5 kft MSL, realign with G1

At 16:35 head direction of Pt. WS

HC sample : 16:40-16:45

HC sample : 16:55-17:00

Up and down profile to 10 kft MSL

At 17:05 racetrack profile or spiral to 10 kft MSL at 1500 ft/min

and return down to 500 ft AGL

(17:05-17:20)

HC sample : 17:10-17:15

End of Intercomparison

Racetrack profile or spiral to 15 kft MSL at 1500 ft/min

17:20-17:30

HC sample : 17:25-17:30

Calibration (~ 30 min)

between Pt. WS and Pt. WN at

15 kft MSL

17:30-18:00

HC sample : 17:40-17:45

HC sample : 17:55-18:00

Stay at 15 kft MSL until 18:03

Return to Nashville :

~ 1920
~ 1820

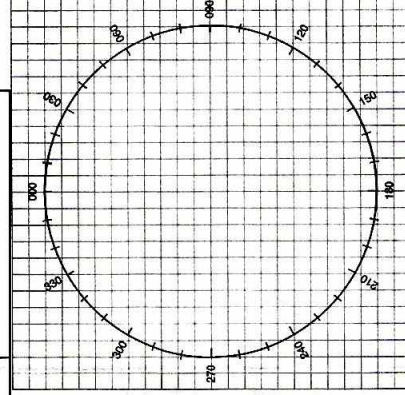
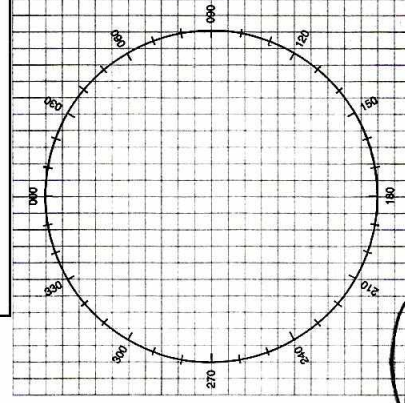
Investigator Crew for Flight #12 (July 6, 1995)

Aerosols	Pat Sheridan	
NO/NOx/NOy/NOy*	Tom Ryerson	
HC/GC	Bill Kuster	NOAA staff
Radon	Mike Farmer	NOAA staff
PAN	Jonathan Williams Jim Roberts	NOAA staff
Carbonyls	Jonathan Williams Jim Roberts Xianliang Zhou	
SO2, CO, O3	David Parrish	NOAA staff
H2O2	Tom Jobson	
Datasystems		
Ops	Gerd Hübler FRED FEHSENFELD BART VERHULST ELLIS COWLING LENNY NEWMAN	
Total	13	8 seats

CLEARANCES

[illegible]

MISSION LOG



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	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY. MAYDAY. MAYDAY.

THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N/S _____
E/W AT _____ Z _____

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE.

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD _____

- NATURE OF EMERGENCY

- ASSISTANCE DESIR

- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

[illegible]