

|                   |                      |                             |
|-------------------|----------------------|-----------------------------|
| FLT ID: 950703 H  | FM: KBNK             | TO: KBNK                    |
| FLT NO: 95-022    | BLK IN: 17142        | ATA: 17102                  |
| ETD: 1100 Z       | BLK OUT: 10572       | ATD: <del>1057</del> 1106 Z |
| ETE: 6+30         | BLK TIME: 6+17 (6.3) | FLT TIME: 6+04 (6.1)        |
| SPONSOR ORG: NOAA | PROGRAM: OZONE 95    | PURPOSE: FLT# 109           |

DAO PERSONNEL

|                     |                    |
|---------------------|--------------------|
| AC: PHILLIPS BORN ✓ | SYS ENG: BAER ✓    |
| CP: O'MARA ✓        | DATA SYS: PRADAS ✓ |
| NAV: RATHBUN ✓      | RADAR:             |
| FE: WADE ✓          | BT/ODW:            |
| RADIO: ARNASON ✓    | CLD PHYS:          |
| FD: BOGERT ✓        | DOPPLER:           |

PARTICIPATING SCIENTIST/VISITORS/DAO

| LAST, FIRST NAME  | ACTIVITY ON A/C | AFFILIATION  |
|-------------------|-----------------|--------------|
| Heibler           | P.I.            | CU/CRES/NOAA |
| Sheeidan          |                 | "            |
| Ryelson           |                 | "            |
| Tobson            |                 |              |
| Holloway          |                 |              |
| Coldan - Lee      |                 |              |
| Farmer            |                 |              |
| ROBERTS - TRAINER | ← 18 S.O.B. →   |              |

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

QNH - 2996 / 1014 mbs  
 PS - 993.4 mbs  
 SP - 993.2 mbs

D.P. BAL @ 1437Z  
 TWZ ↓ LOOKS WARM...

QNH - 2998 / 1015 mbs  
 PS - 992.8 mbs  
 SP - 992.5 mbs

## U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO. 2 DROWF2 FILE

FLT ID: 950703H TIME OFF: 1106Z TIME ON: 1710Z

|          |         |        |          |        |
|----------|---------|--------|----------|--------|
|          | 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         | 1 |  |
| 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

950703 ~~IF~~

| TIME    | LAT                                  | LONG | TRK | WL | WS  | TA  | TD   | PA   | GA   | SP   | BS   | PQ                    |
|---------|--------------------------------------|------|-----|----|-----|-----|------|------|------|------|------|-----------------------|
| 1117Z   | @ 12K MSL END 113515Z                |      |     |    |     |     |      |      |      |      |      |                       |
| 1139Z   | @ 7K MSL                             |      |     |    |     |     |      |      |      |      |      |                       |
| 1144Z   | 35                                   | 44   | 87  | 19 | 272 | 271 | 12.1 | 12.1 | 5.1  | 2116 | 1980 | 984.3 783.6 66.4 (7B) |
| 115430Z | @ 2.2 <sup>K</sup> AGL               |      |     |    |     |     |      |      |      |      |      |                       |
| 1206Z   | @ 1.3 <sup>K</sup> AGL               |      |     |    |     |     |      |      |      |      |      |                       |
| 122030Z | @ 600 AGL                            |      |     |    |     |     |      |      |      |      |      |                       |
| 1238Z   | @ PT 07 @ 500' AGL ~ 1241Z           |      |     |    |     |     |      |      |      |      |      |                       |
| 130315Z | @ PT 04 @ PT "D" 130830Z             |      |     |    |     |     |      |      |      |      |      |                       |
| 1312    | 36                                   | 40   | 86  | 32 | 089 | 209 | 10.6 | 20.4 | 15.5 | 381  | 203  | 992 968 83.4 (0.6K)   |
| 132130Z | @ 1.3 AGL (2K MSL)                   |      |     |    |     |     |      |      |      |      |      |                       |
| 133630Z | @ 2K AGL ENR PT "EPRIME" END 1349Z   |      |     |    |     |     |      |      |      |      |      |                       |
| 1356Z   | @ 6.5 MSL ENR PT "D"                 |      |     |    |     |     |      |      |      |      |      |                       |
| 143345Z | @ 1300 AGL E. TRK                    |      |     |    |     |     |      |      |      |      |      |                       |
| 1434    | 37                                   | 00   | 88  | 00 | 092 | 195 | 7.5  | 19.8 | 12.8 | 541  | 368  | 995 953 70.6 (1.3K)   |
| 1451Z   | @ 2K AGL                             |      |     |    |     |     |      |      |      |      |      |                       |
| 151230Z | @ 5K MSL                             |      |     |    |     |     |      |      |      |      |      |                       |
| 1524Z   | @ 15K MSL END 1549Z TO PT 04 @ 1000' |      |     |    |     |     |      |      |      |      |      |                       |
| 1557    | @ 1.0K AGL END 1655Z ...             |      |     |    |     |     |      |      |      |      |      |                       |

ENR BNA

# OZONE-95

FLIGHT #10 950703H Early Morn. Flt.

## TYPE OF DATA

## SENSOR OR OPTION

|                                                |                    |
|------------------------------------------------|--------------------|
| INE                                            | 1                  |
| Accelerometer                                  | 1                  |
| Temperature probe                              | 1                  |
| Altitude change option<br>(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 11 GPS positions.

F/D balanced the dewpointer at 143700Z. Data despiked/patched...

TW#2 looked too warm through<sup>out</sup> flight. Utilized TW#1 in post-processing.

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 | 993.4mb  | 992.8mb  |
| Corrected tower pressure | 1014.0mb | 1015.0mb |

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

Inc # 1

~~REVAV~~

950703 FI

|           |        |      |
|-----------|--------|------|
| ① 113500Z | 3545.2 | -0.2 |
|           | 8640.5 | -0.1 |

|           |        |      |
|-----------|--------|------|
| ② 120500Z | 3545.3 | -0.3 |
|           | 8636.5 | ±0   |

|           |        |      |
|-----------|--------|------|
| ③ 125200Z | 3623.2 | +0.2 |
|           | 8637.4 | +0.1 |

|           |        |      |
|-----------|--------|------|
| ④ 132200Z | 3637.3 | +0.2 |
|           | 8559.4 | +0.2 |

|           |        |      |
|-----------|--------|------|
| ⑤ 135700Z | 3633.1 | +0.4 |
|           | 8620.3 | -0.1 |

|           |        |      |
|-----------|--------|------|
| ⑥ 141800Z | 3659.4 | +0.4 |
|           | 8727.4 | -0.4 |

|           |        |      |
|-----------|--------|------|
| ⑦ 143400Z | 3659.9 | +0.4 |
|           | 8757.9 | +0.1 |

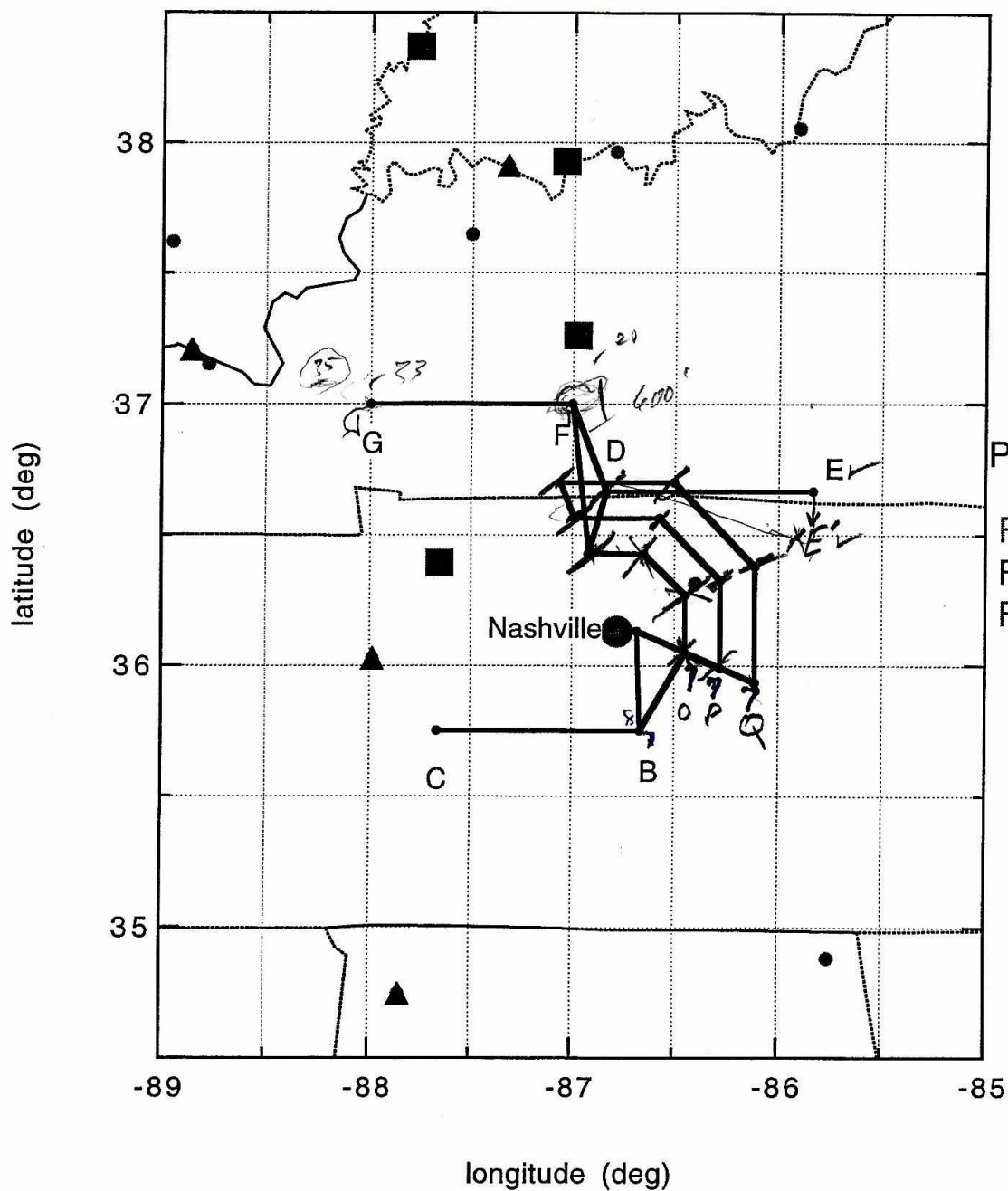
|           |        |      |
|-----------|--------|------|
| ⑧ 151600Z | 3659.5 | +1.2 |
|           | 8659.9 | +0.1 |

|           |        |      |
|-----------|--------|------|
| ⑨ 155300Z | 3651.1 | +1.0 |
|           | 8656.8 | -0.3 |

|           |        |      |
|-----------|--------|------|
| ⑩ 163200Z | 3642.6 | +1.7 |
|           | 8700.2 | -0.8 |

|           |        |      |
|-----------|--------|------|
| ⑪ 171000Z | 3605.9 | +1.6 |
|           | 8642.1 | -1.1 |

# Early Morning Flight, 3 July 1995



Point Sources

$F_{nox} \geq 5E24$

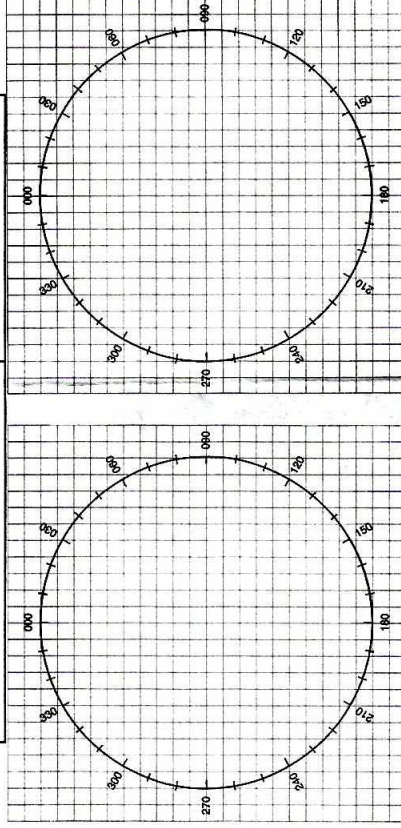
$F_{nox} \geq 1E25$

$F_{nox} \geq 2E25$

PTS. 06-05  
PLUME

[illegible]

# POSITION REPORT



| <b>1. POSITION</b> | <b>2. TIME</b> | <b>3. ALTITUDE</b> | <b>4. NEXT POSITION</b> | <b>5. ETA</b> | <b>6. NEXT POSITION</b> |
|--------------------|----------------|--------------------|-------------------------|---------------|-------------------------|
|                    |                |                    |                         |               |                         |

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 \_\_\_\_\_**

- 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

## - NATURE OF EMERGENCY

**- ASSISTANCE DESIR**

- PILOT INTENTIONS
- WE HAVE ENDURANCE REMAINING

[illegible]