U.. 'O.
NATION'L ... AND A... ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY

FLT # HU519

DIGITAL OZONESONDE CHECKLIST

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/12/08
INITIALS: B
PUMP NUMBER: 22707

PUMP CURRENT: 84.54
PUMP PRESSURE: 241
PUMP VACUUM: 22

30 MINUTES HI O_3 ✓ (√)
5 MINUTE NO O_3 ✓ (√)

ADD 3.0 CC CATHODE SOLUTION: ✓ (√)
WAIT 2 MINUTES: ✓ (√)
ADD 1.5 CC ANODE SOLUTION: ✓ (√)
RUN 20 MINUTES ON NO O_3 ✓ (√)

Short the cell leads: ✓ (√)
Add about 2.5 CC more Cathode Solution (2Z) ✓ (√)
Place Instrument inside plastic bag: ✓ (√)
Store inside Styrofoam flight box: ✓ (√)

Record the current after the 20 MINUTES ON NO O_3: = 0.586 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/26/08
INITIALS: SL
Cathode solution date written on bottle: 8/24/07
CHANGE CATHODE SOLUTION (3cc): ✓ (√)
CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
RUN ON NO O_3 FOR 5 MINUTES: ✓ (√)
RECORD THE NO O_3 BACKGRND#1: **BG1**= 0.038 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.29 sec
FLOWRATE #2: 29.23
FLOWRATE #3: 29.22
FLOWRATE #4: 29.25
FLOWRATE #5 29.32
AVERAGE T100: 29.26

DRY T100
#1: 28.70
#2: 28.59
#3: 28.60
DRY AVG: 28.63

WET T100
#1: 29.08
#2: 29.06
#3: 29.17
WET AVG: 29.10

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 25.66 sec.
RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 72
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 1.64 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU519
GMT DATE : 7/26/08
GMT LAUNCH TIME : 18:03

LOCAL DATE: 7/26/08
LOCAL TIME: 13:03

BALLOON TYPE 1200 **Gram :** Kaymont ✓ Scientific Sales ____ (√ one)

O_3 BACKGROUND (µamps from F9 key): 0.038

VAISALA NUMBER (9 digit): 117707205
SURFACE PRESSURE: ____
SURFACE TEMP. (C): ____
SURFACE HUMIDITY : ____

SKY CONDITIONS: Cloudy, launched right after big Thunderstorm moved through the area
~ BURST PRESSURE (mb) : 7.8 klb at 33.22 kft

REMARKS: ____

weighoff = ____ grams

*T100 flow corr (%) = [(WET/DRY)-1.0] X 100