U.S. DEPT. OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU538

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/11/08
INITIALS: B
PUMP NUMBER: 227801

PUMP CURRENT: 94.95
PUMP PRESSURE: >11
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: = ~345 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): BH 10/25
INITIALS: BH/RY
Cathode solution date written on bottle: 07/14/08
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**= 0.014 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.95 sec
FLOWRATE #2: 28.99
FLOWRATE #3: 28.80
FLOWRATE #4: 28.79
FLOWRATE #5 28.79
AVERAGE T100: 28.864

DRY T100
#1: 28.72
#2: 28.63
#3: 28.65
DRY AVG: 28.66

WET T100
#1: 28.93
#2: 28.97
#3: 28.93
WET AVG: 28.94

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 25.18 sec.
RECORD: ROOM TEMP (C) 19° ROOM REL. HUMID. (%) 34
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** .97 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU538
GMT DATE : 10/25
GMT LAUNCH TIME : 12:19:55

LOCAL DATE: 10/25
LOCAL TIME: 17:19:55

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

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 320602502
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: clear & windy

~ BURST PRESSURE (mb) : 32.184/8142.3

REMARKS: _____

weighoff = _____ grams

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