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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU541

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/11/08
INITIALS: B
PUMP NUMBER: 227696

PUMP CURRENT: 94.83
PUMP PRESSURE: 211
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: = .593 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/15/08
INITIALS: YR & SL
Cathode solution date written on bottle: 7/16/08
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**= 0.067 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.10 sec
FLOWRATE #2: 28.99
FLOWRATE #3: 28.95
FLOWRATE #4: 28.93
FLOWRATE #5 29.00
AVERAGE T100: 29.994

DRY T100
#1: 28.81
#2: 28.73
#3: 28.60
DRY AVG: 28.71

WET T100
#1: 28.99
#2: 28.99
#3: 28.98
WET AVG: 28.98

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 24.60 sec.
RECORD: ROOM TEMP (C) 18°C ROOM REL. HUMID. (%) 34%
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** .94 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU541
GMT DATE : 11/15/08
GMT LAUNCH TIME : 19:23

LOCAL DATE: 11/15/08
LOCAL TIME: 13:23

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

O_3 BACKGROUND (µamps from F9 key): ____

VAISALA NUMBER (9 digit): 188322952
SURFACE PRESSURE: ____
SURFACE TEMP. (C): ____
SURFACE HUMIDITY : ____

SKY CONDITIONS: Partly Cloudy & windy (≈12mph) from NW
~ BURST PRESSURE (mb) : 4.9970 35.3 KM

REMARKS: ____

weighoff = ____ grams

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