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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # Hu539

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/18/08
INITIALS: SL
PUMP NUMBER: 277803

PUMP CURRENT: 109.87
PUMP PRESSURE: >10
PUMP VACUUM: 23

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: = 0.335 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/01/08
INITIALS: B+RY
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**= 0.013 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.08 sec
FLOWRATE #2: 28.95
FLOWRATE #3: 29.09
FLOWRATE #4: 29.07
FLOWRATE #5 29.14
AVERAGE T100: 29.06

DRY T100
#1: 28.63
#2: 28.75
#3: 28.63
DRY AVG: 28.74

WET T100
#1: 29.13
#2: 29.16
#3: 29.08
WET AVG: 29.12

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.28 sec.
RECORD: ROOM TEMP (C) 17 ROOM REL. HUMID. (%) 33
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.32 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu539
GMT DATE : 11/11/08
GMT LAUNCH TIME : 1757

LOCAL DATE: 11/11/08
LOCAL TIME: 1257

5-7881

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

O_3 BACKGROUND (µamps from F9 key): 0.013

VAISALA NUMBER (9 digit): 148 322740
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS:

~ BURST PRESSURE (mb) : 9.19
33.09 Km

REMARKS:

weighoff =_____ grams

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