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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU499

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/01/08
INITIALS: SL
PUMP NUMBER: 27299

PUMP CURRENT: 102.18
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: = 0.245 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 03/15/08
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**= 0.004 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.19 sec
FLOWRATE #2: 29.21
FLOWRATE #3: 29.28
FLOWRATE #4: 29.28
FLOWRATE #5 29.15
AVERAGE T100: 29.22

DRY T100
#1: 28.18
#2: 28.26
#3: 28.23
DRY AVG: 28.22

WET T100
#1: 28.89
#2: 28.84
#3: 28.86
WET AVG: 28.86

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 22.84 sec.
RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 39
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.27%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU499
GMT DATE : 03/15/08
GMT LAUNCH TIME : 19:15

LOCAL DATE: 03/15/08
LOCAL TIME: 13:15

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

O_3 BACKGROUND (µamps from F9 key): 0.004

VAISALA NUMBER (9 digit): 189210543
SURFACE PRESSURE: ____
SURFACE TEMP. (C): ____
SURFACE HUMIDITY : ____

SKY CONDITIONS: cloudy/overcast

~ BURST PRESSURE (mb) : 7.084
burst at: 32.93km

REMARKS: ____

weighoff = ____ grams

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