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

FLT # HU495

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 02/02/08
INITIALS: SL
PUMP NUMBER: 227248

PUMP CURRENT: 105.45
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$_3$ = 0.259 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 02/16/08
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= 0.010 μamps
RUN ON 5 microamps of O$_3$ for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.84 sec
FLOWRATE #2: 28.77
FLOWRATE #3: 28.81
FLOWRATE #4: 28.77
FLOWRATE #5: 28.73
AVERAGE T100: 28.784

DRY T100
#1: 28.50
#2: 28.50
#3: 28.49
DRY AVG: 28.496

WET T100
#1: ~~28.90~~ 28.8
#2: 28.87
#3: 28.87
WET AVG: 28.876

RESONSE TIME
   SWITCH TO NO O$_3$ AIR.
   RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 23.29 sec.
   RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 43
   RECORD: 5 - T100 FLOWRATE TIMES:

T100 Flowrate correction. 1.33 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 495
GMT DATE : 02/16/08
GMT LAUNCH TIME : 19:29

LOCAL DATE: 02/16/08
LOCAL TIME: 13:29

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

O$_3$ BACKGROUND (μamps from F9 key): 0.010

VAISALA NUMBER (9 digit): 320510104
SURFACE PRESSURE: ____
SURFACE TEMP. (C): ____
SURFACE HUMIDITY : ____

SKY CONDITIONS: overcast / cloudy

~ BURST PRESSURE (mb) : 8.717
burst at: 31.62 km

REMARKS: Bill Brown attached small experiment.

weighoff = _____ grams

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