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

FLT # HU604

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/26/09
INITIALS: BM
PUMP NUMBER: 2Z 8693

PUMP CURRENT: 89.52
PUMP PRESSURE: >10
PUMP VACUUM: 18

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 ___✓___ (√)
Record the current after the 20 MINUTES ON NO O_3: = 0.496 μamps

Short the cell leads: ___✓___ (√)
Add about 2.5 CC more Cathode Solution (2Z) ___✓___ (√)
Place Instrument inside plastic bag: ___✓___ (√)
Store inside Styrofoam flight box: ___✓___ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/16/10
INITIALS: SL
Cathode solution date written on bottle: 4/17/09
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= 0.023 μamps
RUN ON 5 microamps of O_3 for 10 Minutes: ___✓___ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.18 sec
FLOWRATE #2: 18.29
FLOWRATE #3: 28.35
FLOWRATE #4: 28.74
FLOWRATE #5: 28.32
AVERAGE T100: 28.37

DRY T100
#1: 27.09 86
#2: 27.39 8C
#3: 27.52
DRY AVG: 27.49 83

WET T100
#1: 28.16
#2: 28.54
#3: 28.27
WET AVG: 28.32

RESONSE TIME

SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 39.28 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 14
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.76 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU604
GMT DATE : 1/16/10
GMT LAUNCH TIME : _____

LOCAL DATE: 1/16/10
LOCAL TIME: _____

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

O_3 BACKGROUND (μamps from F9 key): 0.023

VAISALA NUMBER (9 digit): 309015847
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: overcast, light rain no wind

~ BURST PRESSURE (mb) : _____ at 35. K1

REMARKS: _____

weighoff = _____ grams

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