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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU011

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 18 02 20 10
INITIALS: BH
PUMP NUMBER: 27857

PUMP CURRENT: 87.05
PUMP PRESSURE: >10
PUMP VACUUM: 22

30 MINUTES HI O_3 ✓(√)
5 MINUTE NO O_3 ✓(√)

ADD 3.0 CC CATHODE SOLUTION:	✓(√)	Short the cell leads:	✓(√)
WAIT 2 MINUTES:	✓(√)	Add about 2.5 CC more Cathode Solution (2Z)	✓(√)
ADD 1.5 CC ANODE SOLUTION:	✓(√)	Place Instrument inside plastic bag:	✓(√)
RUN 20 MINUTES ON NO O_3	✓(√)	Store inside Styrofoam flight box:	✓(√)

Record the current after the 20 MINUTES ON NO O_3: = 0.483 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3/6/10
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**=0.030 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.23 sec
FLOWRATE #2: 28.28
FLOWRATE #3: 28.33
FLOWRATE #4: 28.35
FLOWRATE #5 28.37
AVERAGE T100: 28.31

DRY T100
#1: 27.68
#2: 27.59
#3: 27.71
DRY AVG: 27.66

WET T100
#1: 28.21
#2: 28.23
#3: 28.27
WET AVG: 28.23

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.66 sec.
RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 10
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.06%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU011
GMT DATE : 3/6/10
GMT LAUNCH TIME : 19:00:15
LOCAL DATE: 3/6/10
LOCAL TIME: 13:00:15

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

O_3 BACKGROUND (µamps from F9 key): 0.030

VAISALA NUMBER (9 digit): 148752754
SURFACE PRESSURE:____
SURFACE TEMP. (C):____
SURFACE HUMIDITY :____

SKY CONDITIONS: clear skies
~ BURST PRESSURE (mb) :____ at 30.5km

REMARKS:

weighoff =____ grams

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