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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # 41562

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3/28/09
INITIALS: SL & WC
PUMP NUMBER: 2Z8109

PUMP CURRENT: 92.60
PUMP PRESSURE: 9
PUMP VACUUM: 22

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: = 0.347 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/4/09
INITIALS: WC/BH
Cathode solution date written on bottle: March 4, 2008
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**= 0.019 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.77 sec
FLOWRATE #2: 28.69
FLOWRATE #3: 28.85
FLOWRATE #4: 28.87
FLOWRATE #5 28.75
AVERAGE T100: 28.78

DRY T100
#1: 28.30
#2: 28.28
#3: 28.19
DRY AVG: 28.25

WET T100
#1: 28.44
#2: 28.54
#3: 28.49
WET AVG: 28.49

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.08 sec.
RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 26
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 0.8 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU562
GMT DATE : 04/04/2009
GMT LAUNCH TIME : 17:59:42
LOCAL DATE: 04/04/2009
LOCAL TIME: 12:59:42

BALLOON TYPE 1200 **Gram :** Kaymont___ Scientific Sales___ (√ one)

O_3 BACKGROUND (µamps from F9 key):

VAISALA NUMBER (9 digit): 51Z104303
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Clear
~ BURST PRESSURE (mb) : 7,339/33,030km

REMARKS:

weighoff =_____ grams

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