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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU579

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/11/09
INITIALS: B
PUMP NUMBER: 22 8230

PUMP CURRENT: 77.40
PUMP PRESSURE: >10
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: = 0.462 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 07/25/09
INITIALS: BH
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**= 0.020 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.98 sec
FLOWRATE #2: 29.23
FLOWRATE #3: 29.08
FLOWRATE #4: 28.99
FLOWRATE #5 29.23
AVERAGE T100: 29.10

DRY T100
#1: 28.04
#2: 28.26
#3: 28.04
DRY AVG: 28.11

WET T100
#1: 28.51
#2: 28.55
#3: 28.53
WET AVG: 28.53

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.67 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 49
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.49 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU579
GMT DATE : 07/25/2009
GMT LAUNCH TIME : 17:55

LOCAL DATE: 07/25/2009
LOCAL TIME: 12:55

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

O_3 BACKGROUND (µamps from F9 key):

VAISALA NUMBER (9 digit): 223105105
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Windy & cloudy

~ BURST PRESSURE (mb) : 32.86 km
8.13 mb

REMARKS:

weighoff =_____ grams

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