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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # 554

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 01/23/09
INITIALS: SL
PUMP NUMBER: 278130

PUMP CURRENT: 89.6
PUMP PRESSURE: 8.5
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: = 0.024 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 02/14/09
INITIALS: BH
Cathode solution date written on bottle: 3/4/08
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**= 0.013 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.22 sec
FLOWRATE #2: 28.12
FLOWRATE #3: 28.19
FLOWRATE #4: 28.16
FLOWRATE #5 28.17
AVERAGE T100: 28.18

DRY T100
#1: 28.22
#2: 28.19
#3: 28.38
DRY AVG: 28.33

WET T100
#1: 28.60
#2: 28.59
#3: 28.56
WET AVG: 28.58

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 28.87 sec.
RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 36
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** ~~0.78~~ 0.88 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU554
GMT DATE : 02/14/09
GMT LAUNCH TIME : 18:17:16

LOCAL DATE: 02/14/09
LOCAL TIME: 12:17:16

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

O_3 BACKGROUND (µamps from F9 key): -

VAISALA NUMBER (9 digit): 723105705
SURFACE PRESSURE: /
SURFACE TEMP. (C): /
SURFACE HUMIDITY : /

SKY CONDITIONS: windy a little cloudy

~ BURST PRESSURE (mb) : 29,094/12,545

REMARKS: pretty

weighoff =_____ grams

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