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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU574

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/6/09
INITIALS: SC
PUMP NUMBER: Z8233

PUMP CURRENT: 76.12
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: = 0.502 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/20/09
INITIALS: WC
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**= 0.051 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.03 sec
FLOWRATE #2: 28.93
FLOWRATE #3: 29.01
FLOWRATE #4: 28.86
FLOWRATE #5 28.73
AVERAGE T100: 28.91

DRY T100
#1: 28.19
#2: 28.06
#3: 28.23
DRY AVG: 28.16

WET T100
#1: 28.59
#2: 28.58
#3: 28.63
WET AVG: 28.60

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 31.26 sec.
RECORD: ROOM TEMP (C) 25 ROOM REL. HUMID. (%) 52
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.56 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU574
GMT DATE : 6/20/09
GMT LAUNCH TIME : 18:23:16

LOCAL DATE: 6/20/09
LOCAL TIME: 1:23:16

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

O_3 BACKGROUND (µamps from F9 key): 0.051

VAISALA NUMBER (9 digit): 72320081 4
SURFACE PRESSURE: /
SURFACE TEMP. (C): /
SURFACE HUMIDITY : /

SKY CONDITIONS: Partly cloudy

~ BURST PRESSURE (mb) : 10.746
Altitude: 30.90 km

REMARKS:

weighoff = _____ grams

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