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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # H4620

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4/27/2010
INITIALS: WTC
PUMP NUMBER: 278887

PUMP CURRENT: 82.10
PUMP PRESSURE: 11
PUMP VACUUM: 21

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: = 0.470 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/1/2010
INITIALS: WTC
Cathode solution date written on bottle: Oct 14, 2009
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: 29.57 sec
FLOWRATE #2: 29.58
FLOWRATE #3: 29.76
FLOWRATE #4: 29.62
FLOWRATE #5 29.65
AVERAGE T100: 29.63

DRY T100
#1: 27.47
#2: 27.90
#3: 27.63
DRY AVG: 27.63

WET T100
#1: 28.24
#2: 28.32
#3: 28.26
WET AVG: 28.29

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 33.83 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 34
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.39 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4620
GMT DATE : 5/1/2010
GMT LAUNCH TIME : 18:00:10
LOCAL DATE: 5/1/2010
LOCAL TIME: 13:00:10

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

O_3 BACKGROUND (µamps from F9 key): [redacted]

VAISALA NUMBER (9 digit): H4875252
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Cloudy
~ BURST PRESSURE (mb) :
Altitude: 34.25 km

REMARKS:

weighoff =_____ grams

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