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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HL1602

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/19/09
INITIALS: WTC
PUMP NUMBER: 27867

PUMP CURRENT: 81.58
PUMP PRESSURE: 11
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): 1/2/10
INITIALS: SK
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**= 0.008 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.71 sec
FLOWRATE #2: 28.87
FLOWRATE #3: 28.81
FLOWRATE #4: 28.86
FLOWRATE #5 28.69
AVERAGE T100: 28.79

DRY T100
#1:___
#2:___
#3:___
DRY AVG:___

WET T100
#1:___
#2:___
#3:___
WET AVG:___

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 30.23 sec.
RECORD: ROOM TEMP (C) 15 ROOM REL. HUMID. (%) 12
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HL1602
GMT DATE : 1/2/10
GMT LAUNCH TIME : ~~19:57:57~~

LOCAL DATE: 1/2/10
LOCAL TIME: ~~13:57:57~~

BALLOON TYPE_____ **Gram :** Kaymont ✓ Scientific Sales___ (√ one)

O_3 BACKGROUND (µamps from F9 key):_____

VAISALA NUMBER (9 digit): 30812165 3
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____
SURFACE HUMIDITY :_____

SKY CONDITIONS: clear, windy

~ BURST PRESSURE (mb) : 33 km

REMARKS:_____

weighoff =_____ grams

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