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

FLT # H4838

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/26/2013
INITIALS: NLP
PUMP NUMBER: 2Z24470

5 min ✓
PUMP CURRENT: 95.29
PUMP PRESSURE: >10
PUMP VACUUM: 20

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 ✓ (√)
Record the current after the 20 MINUTES ON NO O_3: = 0.164 µamps

Short the cell leads: ✓ (√)
Add about 2.5 CC more Cathode Solution (2Z) ____ (√)
Place Instrument inside plastic bag: ____ (√)
Store inside Styrofoam flight box: ____ (√)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/9/2013
INITIALS: WTC
Cathode solution date written on bottle: Aug 13, 2013
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**= 0.068 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.05 sec
FLOWRATE #2: 28.96
FLOWRATE #3: 29.14
FLOWRATE #4: 29.19
FLOWRATE #5 29.23
AVERAGE T100: 29.11

DRY T100
#1: 28.65
#2: 28.80
#3: 28.85
DRY AVG: 28.77

WET T100
#1: 29.13
#2: 29.29
#3: 29.84
WET AVG: 29.28

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.05 sec.
RECORD: ROOM TEMP (C) 18 ROOM REL. HUMID. (%) 26
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 1.60 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4838
GMT DATE : 11/9/2013
GMT LAUNCH TIME : 19:04
LOCAL DATE: 11/9/2013
LOCAL TIME: 13:04

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

O_3 BACKGROUND (µamps from F9 key): 0.068

VAISALA NUMBER (9 digit): 21114
SURFACE PRESSURE: 997.7
SURFACE TEMP. (C): 21.9
SURFACE HUMIDITY : 59.8

SKY CONDITIONS:
~ BURST PRESSURE (mb) :

REMARKS:

weighoff = 1700 grams

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