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

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

FLT # HU 837

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/19
INITIALS: BZY
PUMP NUMBER: 27222743

PUMP CURRENT: 104.30
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 ✓(√)

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: = 0.179 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/2/2013
INITIALS: NLP
Cathode solution date written on bottle: 239 ✓
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**= 0.056 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.28 sec
FLOWRATE #2: 29.17
FLOWRATE #3: 29.12
FLOWRATE #4: 29.03
FLOWRATE #5 29.07
AVERAGE T100: 29.13

DRY T100
#1: 29.47
#2: 29.49
#3: 29.40
DRY AVG: 29.4

WET T100
#1: 29.89
#2: 29.87
#3: 29.80
WET AVG: 29.85

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 35.25 sec.
RECORD: ROOM TEMP (C) 17.3 ROOM REL. HUMID. (%) 38
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 1.36 %

DAY OF FLIGHT @ THE LAUNCH SITE. NLP

FLIGHT NUMBER: HU 837
GMT DATE : 11/2/2013
GMT LAUNCH TIME : 18:01:58

LOCAL DATE: 11/2/2013
LOCAL TIME: 13:01:58

BALLOON TYPE 1200 **Gram :** Kaymont___ Scientific Sales___ (√ one) Hwoyee ✓

O_3 BACKGROUND (µamps from F9 key): 0.056

VAISALA NUMBER (5 digit): 21003
SURFACE PRESSURE: 990.1
SURFACE TEMP. (C): 17.7
SURFACE HUMIDITY : 38.4%

SKY CONDITIONS:

~ BURST PRESSURE (mb) : 35.8454 AIT

REMARKS: partly cloudy, Windy

weighoff = 1700 grams

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