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

FLT # HU839

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/02/2013
INITIALS: NLP
PUMP NUMBER: 2224468

PUMP CURRENT: 93.47
PUMP PRESSURE: 710
PUMP VACUUM: 20.5

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: = 0.329 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/16/2013
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: 27.73 sec
FLOWRATE #2: 27.89
FLOWRATE #3: 28.08
FLOWRATE #4: 28.33
FLOWRATE #5 28.44
AVERAGE T100: 28.094

DRY T100
#1: 28.83
#2: 28.69
#3: 28.79
DRY AVG: 28.77

WET T100
#1: 29.44
#2: 29.35
#3: 29.39
WET AVG: 29.39

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 27.63 sec.
RECORD: ROOM TEMP (C) 20.2 ROOM REL. HUMID. (%) 42
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.155%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU839
GMT DATE : 11/16/2013
GMT LAUNCH TIME : 19:09

LOCAL DATE: 11/16/2013
LOCAL TIME: 13:09

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

O_3 BACKGROUND (µamps from F9 key): 0.056

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

SKY CONDITIONS: Mostly cloudy, w/ high near 66. SE wind around 15 mph

~ BURST PRESSURE (mb) :

REMARKS:

weighoff = 1700 grams

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