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

FLT# HU 834

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/05/2013
INITIALS: NLP
PUMP NUMBER: 2234597

PUMP CURRENT: 93.48
PUMP PRESSURE: 710
PUMP VACUUM: 23

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: = 0.716 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/12/2013
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 0.056
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.55 sec
FLOWRATE #2: 29.49
FLOWRATE #3: 29.66
FLOWRATE #4: 29.57
FLOWRATE #5 29.60
AVERAGE T100: 29.57

DRY T100
#1: 29.09
#2: 29.19
#3: 29.16
DRY AVG: 29.15

WET T100
#1: 29.43
#2: 29.47
#3: 29.47
WET AVG: 29.41

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 25.19 sec.
RECORD: ROOM TEMP (C) 23.3 ROOM REL. HUMID. (%) 42
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 1.06 %

DAY OF FLIGHT @ THE LAUNCH SITE. NLP

FLIGHT NUMBER: HU 834
GMT DATE : 10/12/2013
GMT LAUNCH TIME : 18:00

LOCAL DATE: 10/12/2013
LOCAL TIME: ~~1:00~~ 13:00

BALLOON TYPE 800 **Gram :** Kaymont___ Scientific Sales___ (√ one) Hwoyee ✓

O_3 BACKGROUND (µamps from F9 key): 0.056

VAISALA NUMBER (9 digit): 21002
SURFACE PRESSURE: 992.1
SURFACE TEMP. (C): 16.9
SURFACE HUMIDITY : 75.2

SKY CONDITIONS: Mostly sunny w/a high near 82 North wind around 5 mph
~ BURST PRESSURE (mb) : 31.20

REMARKS:

weighoff = 1700 grams

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