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

FLT # HU846

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/21/2013
INITIALS: NLP
PUMP NUMBER: 2Z25172

PUMP CURRENT: 99.31
PUMP PRESSURE: >10
PUMP VACUUM: 19

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: = 0.711 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/4/2014
INITIALS: WTC
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**= 0.066 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.81 sec
FLOWRATE #2: 28.83
FLOWRATE #3: 28.91
FLOWRATE #4: 29.07
FLOWRATE #5 29.21
AVERAGE T100: 28.96

DRY T100
#1: 28.72
#2: 28.73
#3: 28.74
DRY AVG: 28.73

WET T100
#1: 29.16
#2: 29.13
#3: 29.11
WET AVG: 29.13

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 38.85 sec.
RECORD: ROOM TEMP (C) 16 ROOM REL. HUMID. (%) 17
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.40%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU846
GMT DATE : 1/4/2014
GMT LAUNCH TIME : 19:12

LOCAL DATE: 1/4/2014
LOCAL TIME: 13:12

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

O_3 BACKGROUND (µamps from F9 key):_____

VAISALA NUMBER (9 digit): [illegible] 21428
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____
SURFACE HUMIDITY :_____

SKY CONDITIONS:_____

~ BURST PRESSURE (mb) :_____
Alt (km): 27.3

REMARKS:_____

weighoff = 1700 grams

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