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

FLT # Hu 849

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 01/11/2014
INITIALS: NLP
PUMP NUMBER: 2225178

PUMP CURRENT: 97.86
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: = 0.594 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 01/25/2014
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**= 0.055 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: BJ1885 (√) ✓

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.55 sec
FLOWRATE #2: 29.64
FLOWRATE #3: 29.31
FLOWRATE #4: 29.67
FLOWRATE #5 29.67
AVERAGE T100: 29.57

DRY T100
#1: 29.20
#2: 29.13
#3: 29.12
DRY AVG: 29.15

WET T100
#1: 29.59
#2: 29.58
#3: 29.52
WET AVG: 29.56

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 31.85 sec.
RECORD: ROOM TEMP (C) 15.4 ROOM REL. HUMID. (%) 11
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.41 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu 849
GMT DATE : 01/25/2014
GMT LAUNCH TIME : 19:00

LOCAL DATE: 01/25/2014
LOCAL TIME: 13:00

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

O_3 BACKGROUND (µamps ~~from F9 key~~): 0.055

VAISALA NUMBER (5 digit): 21374
SURFACE PRESSURE: 987.6
SURFACE TEMP. (C): 5.2
SURFACE HUMIDITY : 29.4

SKY CONDITIONS: Mostly sunny with a high near 45, West Wind 10 to 15 mph, w/gusts as high as 25 mph
~ BURST PRESSURE (mb) :

REMARKS:

weighoff = 1700 grams

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