Hu739

FLT # [redacted]

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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/31/2012
INITIALS: WTC
PUMP NUMBER: 2210069

PUMP CURRENT: 85.77
PUMP PRESSURE: 711
PUMP VACUUM: 22

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: = 0.545 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/9/2012
INITIALS: WTC
Cathode solution date written on bottle: Sept 8, 2011
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**= 0.071 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.4 sec
FLOWRATE #2: 29.5
FLOWRATE #3: 29.1
FLOWRATE #4: 29.3
FLOWRATE #5 29.7
AVERAGE T100: 29.4

DRY T100
#1: 29.5
#2: 29.4
#3: 29.9
DRY AVG: 29.6

WET T100
#1: 30.4
#2: 30.2
#3: 31.0
WET AVG: 30.5

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 28.0 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 44
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 3.04 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu 739
GMT DATE : 6/9/2012
GMT LAUNCH TIME : 17:46:49
LOCAL DATE: 6/9/2012
LOCAL TIME: 12:46:49

BALLOON TYPE 800 **Gram :** Kaymont ✓ Scientific Sales____ (√ one)

O_3 BACKGROUND (µamps from F9 key):_____

VAISALA NUMBER (9 digit): 239113444
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____ +4.5
SURFACE HUMIDITY :_____

SKY CONDITIONS:_____

~ BURST PRESSURE (mb) :_____
30.7 km

REMARKS:_____

weighoff =_____ grams

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