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

FLT # HU732

DIGITAL OZONESONDE CHECKLIST — **Huntsville**

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4/18/2012
INITIALS: WDC
PUMP NUMBER: 2X10078

PUMP CURRENT: 92.94
PUMP PRESSURE: >11
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: = 0673 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 04/20
INITIALS: BH
Cathode solution date written on bottle: 09/05/2011
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**= 0.090 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.82 sec
FLOWRATE #2: 28.83
FLOWRATE #3: 28.90
FLOWRATE #4: 28.90
FLOWRATE #5 28.87
AVERAGE T100: 28.82

DRY T100
#1: 29.86
#2: 30.23
#3: 30.28
DRY AVG: 30.12

WET T100
#1: 30.91
#2: 30.87
#3: 30.81
WET AVG: 30.88

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 46.85 sec.
RECORD: ROOM TEMP (C) 23.9 ROOM REL. HUMID. (%) 38%
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction** 2.5%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER:_____
GMT DATE :_____
GMT LAUNCH TIME :_____
LOCAL DATE: _____
LOCAL TIME: _____

BALLOON TYPE_____ **Gram :** Kaymont___ Scientific Sales____ (√ one)

O_3 BACKGROUND (µamps from F9 key):_____

VAISALA NUMBER (9 digit): 12832375-3
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____
SURFACE HUMIDITY :_____

SKY CONDITIONS:_____
~ BURST PRESSURE (mb) :_____

REMARKS:_____

weighoff =_____ grams

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