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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU642

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 9/11/2010
INITIALS: SC ; BH
PUMP NUMBER: Z9422-V2D

PUMP CURRENT: 81.20
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: = 0.650 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/18/2010
INITIALS: BH, SC
Cathode solution date written on bottle: 06/21/2010
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: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.93 sec
FLOWRATE #2: 28.98
FLOWRATE #3: 29.09
FLOWRATE #4: 29.15
FLOWRATE #5 29.19
AVERAGE T100: 29.07

DRY T100
#1: 27.78
#2: 27.80
#3: 27.82
DRY AVG: 27.80

WET T100
#1: 28.23
#2: 28.37
#3: 28.27
WET AVG: 28.29

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.33 sec.
RECORD: ROOM TEMP (C) 23.8 ROOM REL. HUMID. (%) 48%
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.76%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 642
GMT DATE : 9/18/2010
GMT LAUNCH TIME : 18:14:46

LOCAL DATE: 9/18/2010
LOCAL TIME: 13:14:46

BALLOON TYPE 1200 **Gram :** Kaymont ✓ Scientific Sales ___ (√ one)

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 12832395 2
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Clear.
~ BURST PRESSURE (mb) : 32.93 km

REMARKS: _____

weighoff = _____ grams

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