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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU653

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/06
INITIALS: BH
PUMP NUMBER: 27 94644121)

PUMP CURRENT: 89.50
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: = 0.490 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/27
INITIALS: BH
Cathode solution date written on bottle: 06/2/2010
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**= 0.084 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓ (√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.63 sec
FLOWRATE #2: 28.65
FLOWRATE #3: 28.66
FLOWRATE #4: 28.70
FLOWRATE #5 28.63
AVERAGE T100: 28.66

DRY T100
#1: 27.81
#2: 27.86
#3: 28.03
DRY AVG: 27.95

WET T100
#1: 28.17
#2: 28.23
#3: 28.27
WET AVG: 28.22

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 40.61 sec.
RECORD: ROOM TEMP (C) 18.4 ROOM REL. HUMID. (%) 27
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.04 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU653
GMT DATE : 11/27
GMT LAUNCH TIME : 11/27

LOCAL DATE: 13:51
LOCAL TIME: 18:51

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

O_3 BACKGROUND (µamps from F9 key):_____

VAISALA NUMBER (9 digit): 128323853
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____
SURFACE HUMIDITY :_____

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

REMARKS:_____

weighoff =_____ grams

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