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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # H4713

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/19
INITIALS: BC
PUMP NUMBER: 2Z2053Y

PUMP CURRENT: 42.36
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: = 0.562 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/3/2011
INITIALS: VTC
Cathode solution date written on bottle: 9/8/2011 #213
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**= 0.031 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.64 sec
FLOWRATE #2: 29.69
FLOWRATE #3: 29.54
FLOWRATE #4: 29.57
FLOWRATE #5 29.61
AVERAGE T100: 29.61

DRY T100
#1: 27.69
#2: 27.71
#3: 27.66
DRY AVG: 27.68

WET T100
#1: 28.24
#2: 28.19
#3: 28.21
WET AVG: 28.21

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.91 sec.
RECORD: ROOM TEMP (C) 19.8 ROOM REL. HUMID. (%) 24
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.91 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4713
GMT DATE : 12/3/2011
GMT LAUNCH TIME : 19:09
LOCAL DATE: 12/3/2011
LOCAL TIME: 1:09

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

O_3 BACKGROUND (µamps from F9 key):_____

VAISALA NUMBER (9 digit): 639151010
SURFACE PRESSURE:_____
SURFACE TEMP. (C):_____
SURFACE HUMIDITY :_____

SKY CONDITIONS: clear

~ BURST PRESSURE (mb) :_____
Alt: 31.18 km

REMARKS:_____

weighoff =_____ grams

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