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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU708

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/22
INITIALS: BH
PUMP NUMBER: 27876

PUMP CURRENT: 127.54
PUMP PRESSURE: 760
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: = 0.383 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/29/2014
INITIALS: BH
Cathode solution date written on bottle: 3/20/2014
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**= .067 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.19 sec
FLOWRATE #2: 29.22
FLOWRATE #3: 29.17
FLOWRATE #4: 29.15
FLOWRATE #5 29.29
AVERAGE T100: 29.204

DRY T100
#1: 27.69
#2: 27.83
#3: 27.70
DRY AVG: 27.74

WET T100
#1: 28.19
#2: 28.63
#3: 28.32
WET AVG: 28.38

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.99 sec.
RECORD: ROOM TEMP (C) 15.6 ROOM REL. HUMID. (%) 36
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2.31 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU708
GMT DATE : 10/29/2014
GMT LAUNCH TIME : 1:00
LOCAL DATE: _____
LOCAL TIME: _____

BALLOON TYPE 1000 **Gram :** Kaymont ✓ Scientific Sales ____ (√ one)

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 178714148

SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb) : Burst at 27 hm

REMARKS: _____

weighoff = _____ grams

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