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

DIGITAL OZONESONDE CHECKLIST **Huntsville**

FLT # HU563

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 4/3/09
INITIALS: WTC
PUMP NUMBER: 2Z7965

PUMP CURRENT: 94.68
PUMP PRESSURE: 10 Psi
PUMP VACUUM: 23 Hg

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: = 0.245 µamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/11/09
INITIALS: WC/BH
Cathode solution date written on bottle: 7/16/08
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=** 0.017 µamps
RUN ON 5 microamps of O_3 for 10 Minutes: ✓(√)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.89 sec
FLOWRATE #2: 29.97
FLOWRATE #3: 29.89
FLOWRATE #4: 29.94
FLOWRATE #5 29.91
AVERAGE T100: 29.92

DRY T100
#1: 28.39
#2: 28.53
#3: 28.43
DRY AVG: 28.45

WET T100
#1: 28.45
#2: 28.71
#3: 28.69
WET AVG: 28.61

RESONSE TIME
SWITCH TO NO O_3 AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 µamps: 24.03 sec.
RECORD: ROOM TEMP (C) 18 ROOM REL. HUMID. (%) 34
RECORD: 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 0.56 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU563
GMT DATE : 04/11/2009
GMT LAUNCH TIME : 18:00:41

LOCAL DATE: 4/11/09
LOCAL TIME: 12:00:41

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

O_3 BACKGROUND (µamps from F9 key): _____

VAISALA NUMBER (9 digit): 517101203
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Cloudy

~ BURST PRESSURE (mb) : ~~32.28 km~~ 8.475

REMARKS: _____

weighoff = _____ grams

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