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

**DIGITAL OZONESONDE CHECKLIST** — **Huntsville**

***FLT #*** HU621

## INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/1/2010
INITIALS: WTC
PUMP NUMBER: 27 8880

PUMP CURRENT: 103.62
PUMP PRESSURE: 511
PUMP VACUUM: 21

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 $O_3$: = 0.480 µamps

## FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/5/2010
INITIALS: WTC
Cathode solution date written on bottle: 10/14/2009
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**= 0.030 µamps
RUN ON 5 microamps of $O_3$ for 10 Minutes: ✓(√)

*T100 FLOWRATE TIMES*:
FLOWRATE #1: 28.37 sec
FLOWRATE #2: 28.11
FLOWRATE #3: 28.29
FLOWRATE #4: 28.28
FLOWRATE #5 28.29
**AVERAGE T100:** 28.26

**DRY T100**
#1: 27.89
#2: 27.83
#3: 27.85
DRY AVG: 27.85

**WET T100**
#1: 28.33
#2: 29.49
#3: 28.34
WET AVG: 28.38

*RESONSE* TIME
SWITCH TO NO $O_3$ AIR.
**RECORD:** THE TIME TO DROP FROM 4 TO 1.5 µamps: 52.67 sec.
**RECORD:** ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 33
**RECORD:** 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.90 %

## DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU621
***GMT*** DATE : 5/5/2010
***GMT*** LAUNCH TIME : 17:34:54

LOCAL DATE: 5/5/2010
LOCAL TIME: 12:34:54

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

$O_3$ BACKGROUND (µamps from F9 key): _____

**VAISALA NUMBER (9 digit):** 148752755
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb) : _____
Altitude: 35.52 km

REMARKS: _____

weighoff = _____ grams

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