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

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

***FLT #*** HU512

## INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/31/08
INITIALS: SK
PUMP NUMBER: 227526

PUMP CURRENT: 102
PUMP PRESSURE: >11
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 $O_3$: = 0.263 µamps

## FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/7/08
INITIALS: SK
Cathode solution date written on bottle: 8/24/07
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**= 0.029 µamps
RUN ON 5 microamps of $O_3$ for 10 Minutes: ✓ (√)

*T100 FLOWRATE TIMES*:
FLOWRATE #1: 28.66 sec
FLOWRATE #2: 28.67
FLOWRATE #3: 28.73
FLOWRATE #4: 28.55
FLOWRATE #5 28.66
**AVERAGE T100:** 28.65

**DRY T100**
#1:
#2:
#3:
DRY AVG:

**WET T100**
#1:
#2:
#3:
WET AVG:

*RESONSE* TIME
SWITCH TO NO $O_3$ AIR.
**RECORD:** THE TIME TO DROP FROM 4 TO 1.5 µamps: 32.14 sec.
**RECORD:** ROOM TEMP (C) 25 ROOM REL. HUMID. (%) 60
**RECORD:** 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 2 %

## DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU512
***GMT*** DATE : 6/7/08
***GMT*** LAUNCH TIME : 17:48:45

LOCAL DATE: 6/7/08
LOCAL TIME: 12:48:45

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

$O_3$ BACKGROUND (µamps from F9 key):

**VAISALA NUMBER (9 digit):** 219110349
SURFACE PRESSURE:
SURFACE TEMP. (C):
SURFACE HUMIDITY :

SKY CONDITIONS: Clear
~ BURST PRESSURE (mb) : 30.41 km

REMARKS:

weighoff = grams

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