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

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

*FLT #* 4U690

## INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 07/02
INITIALS: BM
PUMP NUMBER: 229807 1/2D

PUMP CURRENT: 77.42
PUMP PRESSURE: 710
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 $O_3$: =0.550 µamps

## FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/16/2011
INITIALS: WTC
Cathode solution date written on bottle: 3/20/2010
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=** 0.062 µamps
RUN ON 5 microamps of $O_3$ for 10 Minutes: ✓ (√)

*T100 FLOWRATE TIMES*:
FLOWRATE #1: 29.20 sec
FLOWRATE #2: 29.23
FLOWRATE #3: 29.19
FLOWRATE #4: 29.13
FLOWRATE #5 29.19
**AVERAGE T100:** 29.18

**DRY T100**
#1: 27.72
#2: 27.77
#3: 27.77
DRY AVG: 27.75

**WET T100**
#1: 28.29
#2: 28.21
#3: 28.29
WET AVG: 28.24

*RESONSE* TIME
SWITCH TO NO $O_3$ AIR.
**RECORD:** THE TIME TO DROP FROM 4 TO 1.5 µamps: 31.30 sec.
**RECORD:** ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 54
**RECORD:** 5 - T100 FLOWRATE TIMES:

***T100 Flowrate correction.** 1.76%

## DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 4U690
*GMT* DATE : 7/16
*GMT* LAUNCH TIME : 18:28

LOCAL DATE: 7/16
LOCAL TIME: 1:28

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

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

**VAISALA NUMBER (9 digit):** 19871841
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: cloudy

~ BURST PRESSURE (mb) : _____
Alt: 28.0 KM

REMARKS: _____

weighoff = _____ grams

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