

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

FLT # \_\_\_\_\_

Huntsville

**INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.**

DATE (LOCAL): 4/12/2012 PUMP CURRENT: 47.12 30 MINUTES HI O<sub>3</sub>  (v)  
 INITIALS: SKP PUMP PRESSURE: 7.11 5 MINUTE NO O<sub>3</sub>  (v)  
 PUMP NUMBER: 2220682 PUMP VACUUM: ✓ 22

ADD 3.0 CC CATHODE SOLUTION:  (v) Short the cell leads:  (v)  
 WAIT 2 MINUTES:  (v) Add about 2.5 CC more Cathode Solution (2Z)  (v)  
 ADD 1.5 CC ANODE SOLUTION:  (v) Place Instrument inside plastic bag:  (v)  
 RUN 20 MINUTES ON NO O<sub>3</sub>  (v) Store inside Styrofoam flight box:  (v)  
 Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 44.8 μamps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 4/14/2012  
 INITIALS: WTC  
 Cathode solution date written on bottle: Sept 8, 2011  
 CHANGE CATHODE SOLUTION (3cc):  (v)  
 CHANGE ANODE SOLUTION (1.5cc):  (v) (Yes/No)  
 RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)  
 RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1= 0.087 μamps  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:  
 FLOWRATE #1: 28.99 sec  
 FLOWRATE #2: 28.94  
 FLOWRATE #3: 28.87  
 FLOWRATE #4: 28.91  
 FLOWRATE #5: 28.89  
**AVERAGE T100:** 28.92

**DRY T100**  
 #1: 29.57  
 #2: 29.75  
 #3: 29.68  
**DRY AVG:** 29.66  
  
**WET T100**  
 #1: 30.66  
 #2: 30.69  
 #3: 30.64  
**WET AVG:** 30.66

**RESONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
**RECORD:** THE TIME TO DROP FROM 4 TO 1.5 μamps: 30.29 sec.  
**RECORD:** ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 28  
**RECORD:** 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 3.37%

**DAY OF FLIGHT @ THE LAUNCH SITE.**

FLIGHT NUMBER: 44731  
 GMT DATE: 4/14/2012 LOCAL DATE: 4/14/2012  
 GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_

BALLOON TYPE 1200 Gram: Kaymont  Scientific Sales \_\_\_\_\_ (v one)

O<sub>3</sub> BACKGROUND (μamps from F9 key): \_\_\_\_\_

VAISALA NUMBER (9 digit): 178654045 SKY CONDITIONS: cloudy  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_ 71.6  
 SURFACE HUMIDITY: \_\_\_\_\_ ~ BURST PRESSURE (mb): \_\_\_\_\_  
Alt:

REMARKS: \_\_\_\_\_