

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

FLT # H4102

Huntsville

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

DATE (LOCAL): 2/8/2011 PUMP CURRENT: 195.55 30 MINUTES HI O<sub>3</sub> (✓)  
 INITIALS: JKH PUMP PRESSURE: >11 5 MINUTE NO O<sub>3</sub> (✓)  
 PUMP NUMBER: 229608-V21 PUMP VACUUM: 0.21

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

Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = ?  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 9/2/2011 **DRY T100**  
 INITIALS: WTC #1: 27.49  
 Cathode solution date written on bottle: 3/20/2011 #2: 27.53  
 CHANGE CATHODE SOLUTION (3cc): (✓) #3: 27.51  
 CHANGE ANODE SOLUTION (1.5cc): (✓) (Yes/No) DRY AVG: 27.51  
 RUN ON NO O<sub>3</sub> FOR 5 MINUTES: (✓) **WET T100**  
 RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.021  $\mu$ amps #1: 28.00  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: (✓) #2: 27.92  
 #3: 27.99  
 WET AVG: 27.97

T100 FLOWRATE TIMES:  
 FLOWRATE #1: 30.24 sec  
 FLOWRATE #2: 30.26  
 FLOWRATE #3: 30.34  
 FLOWRATE #4: 30.31  
 FLOWRATE #5: 30.28  
 AVERAGE T100: 30.28

**RESPONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
 RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 22.64 sec. \*T100 Flowrate correction: 1.67%  
 RECORD: ROOM TEMP (C) 22.9 ROOM REL. HUMID. (%) 42  
 RECORD: 5 - T100 FLOWRATE TIMES:

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

FLIGHT NUMBER: H4702  
 GMT DATE: 9/24/2011 LOCAL DATE: 9/24/2011  
 GMT LAUNCH TIME: 18:08:49 LOCAL TIME: 13:08:49

BALLOON TYPE 1000 Gram: Kaymont (✓) Scientific Sales (✓) (one)

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): \_\_\_\_\_

VAISALA NUMBER (9 digit): 123569209 SKY CONDITIONS: Clear  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_  
 SURFACE HUMIDITY: \_\_\_\_\_

+0.4

- BURST PRESSURE (mb): \_\_\_\_\_  
Alt: 29.9

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

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