

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

FLT # HU692

Huntsville

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

DATE (LOCAL): 7/26/2011 PUMP CURRENT: 84.20 30 MINUTES HI O<sub>3</sub>  (✓)  
 INITIALS: SKH PUMP PRESSURE: 211 5 MINUTE NO O<sub>3</sub>  (✓)  
 PUMP NUMBER: 239796-V25 PUMP VACUUM: 772

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>: = 232 μamps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 07/30/2011  
 INITIALS: SKH  
 Cathode solution date written on bottle: 08/20/2010  
 CHANGE CATHODE SOLUTION (3cc):  (✓)  
 CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
 RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (✓)  
 RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.047 μamps  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (✓)

T100 FLOWRATE TIMES:  
 FLOWRATE #1: 29.93 sec  
 FLOWRATE #2: 29.76  
 FLOWRATE #3: 29.75  
 FLOWRATE #4: 30.13  
 FLOWRATE #5: 29.82  
 AVERAGE T100: 29.88

**DRY T100**  
 #1: 27.73  
 #2: 27.84  
 #3: 27.76  
 DRY AVG: 27.78  
**WET T100**  
 #1: 28.23  
 #2: 28.29  
 #3: 28.15  
 WET AVG: 28.21

**RESPONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 38.39 sec.

RECORD: ROOM TEMP (C) 24.1 ROOM REL. HUMID. (%) 59

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction 1.73 %

56 %

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

FLIGHT NUMBER: HU692  
 GMT DATE: \_\_\_\_\_ LOCAL DATE: \_\_\_\_\_  
 GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_

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

O<sub>3</sub> BACKGROUND (μamps from F9 key): 0

VAISALA NUMBER (9 digit): 639151001  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_  
 SURFACE HUMIDITY : \_\_\_\_\_

SKY CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 ~ BURST PRESSURE (mb) : \_\_\_\_\_

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

weighoff = \_\_\_\_\_ grams

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