

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

FLT # HU582

Huntsville

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

DATE (LOCAL): 08/01/09  
 INITIALS: SL  
 PUMP NUMBER: 228397

PUMP CURRENT: 86.90  
 PUMP PRESSURE: >10  
 PUMP VACUUM: 22

30 MINUTES HI O<sub>3</sub>  (v)  
 5 MINUTE NO O<sub>3</sub>  (v)

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>: = 0.578 μamps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 08/15/2009  
 INITIALS: BH

Cathode solution date written on bottle: 4/17/09  
 CHANGE CATHODE SOLUTION (3cc):  (v)  
 CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
 RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)  
 RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 2.023 μamps  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:  
 FLOWRATE #1: 29.04 sec  
 FLOWRATE #2: 28.87  
 FLOWRATE #3: 28.75  
 FLOWRATE #4: 28.80  
 FLOWRATE #5: 28.63  
 AVERAGE T100: 28.82

**DRY T100**  
 #1: 27.93  
 #2: 27.95  
 #3: 27.97  
 DRY AVG: 27.95  
  
**WET T100**  
 #1: 28.46  
 #2: 28.55  
 #3: 28.43  
 WET AVG: 28.48

**RESONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 25.61 sec.  
 RECORD: ROOM TEMP (C) 25      ROOM REL. HUMID. (%) 47  
 RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction: 1.89 %

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

FLIGHT NUMBER: HU582  
 GMT DATE: 08/15/2009      LOCAL DATE: 08/15/2009  
 GMT LAUNCH TIME: 18:29      LOCAL TIME: 1:29

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

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

VAISALA NUMBER (9 digit): 723200806  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_  
 SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 - BURST PRESSURE (mb): 29.680  
2993

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

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

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