

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

FLT # HU 489

Huntsville

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

DATE (LOCAL): 12/15/07  
 INITIALS: PI  
 PUMP NUMBER: 227247

PUMP CURRENT: 97.15  
 PUMP PRESSURE: >10  
 PUMP VACUUM: 24

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

ADD 3.0 CC CATHODE SOLUTION:  (v)  
 WAIT 2 MINUTES:  (v)  
 ADD 1.5 CC ANODE SOLUTION:  (v)  
 RUN 20 MINUTES ON NO O<sub>3</sub>:  (v)  
 Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.258 μamps

Short the cell leads:  (v)  
 Add about 2.5 CC more Cathode Solution (2Z)  (v)  
 Place Instrument inside plastic bag:  (v)  
 Store inside Styrofoam flight box:  (v)

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 01/05/08  
 INITIALS: SL

Cathode solution date written on bottle: 8-24-07  
 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 = 0.009 μamps  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:  
 FLOWRATE #1: 28.51 sec  
 FLOWRATE #2: 28.44  
 FLOWRATE #3: 28.50  
 FLOWRATE #4: 28.47  
 FLOWRATE #5: 28.50  
 AVERAGE T100: 28.48

**DRY T100**  
 #1: 28.24  
 #2: 28.21  
 #3: 28.24  
 DRY AVG: 28.23  
  
**WET T100**  
 #1: 28.77  
 #2: 28.81  
 #3: 28.73  
 WET AVG: 28.77

**RESPONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 26.40 sec.  
 RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 14  
 RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.91 %

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

FLIGHT NUMBER: HU 489  
 GMT DATE: 01/05/08  
 GMT LAUNCH TIME: 19:19:22

LOCAL DATE: 01/05/08  
 LOCAL TIME: 13:19:22

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

O<sub>3</sub> BACKGROUND (μamps from F9 key): 0.009

VAISALA NUMBER (9 digit): 320510103  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_  
 SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: cloudy

- BURST PRESSURE (mb): 6.972  
 burst at: 32.97 km

REMARKS: wrong solution in anode cell, corrected on 12/29/07 SL  
good flight

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

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