

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

FLT # HU496

Huntsville

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

DATE (LOCAL): 02/16/08 PUMP CURRENT: 100.8 30 MINUTES HI O<sub>3</sub>  (N)  
 INITIALS: SL PUMP PRESSURE: > 10 5 MINUTE NO O<sub>3</sub>  (N)  
 PUMP NUMBER: 227301 PUMP VACUUM: 23

ADD 3.0 CC CATHODE SOLUTION:  (N) Short the cell leads:  (N)  
 WAIT 2 MINUTES:  (N) Add about 2.5 CC more Cathode Solution (2Z)  (N)  
 ADD 1.5 CC ANODE SOLUTION:  (N) Place Instrument inside plastic bag:  (N)  
 RUN 20 MINUTES ON NO O<sub>3</sub>  (N) Store inside Styrofoam flight box:  (N)  
 Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.338  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 2-23-08  
 INITIALS: DLN  
 Cathode solution date written on bottle: 8-24-07  
 CHANGE CATHODE SOLUTION (3cc):  (N)  
 CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
 RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (N)  
 RECORD THE NO O<sub>3</sub> BACKGRND#1: **BG1**= 0.012  $\mu$ amps  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (N)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 29.51 sec  
 FLOWRATE #2: 29.50  
 FLOWRATE #3: 29.60  
 FLOWRATE #4: 29.51  
 FLOWRATE #5: 29.50  
**AVERAGE T100:** 29.52

**DRY T100**  
 #1: 28.58  
 #2: 28.43  
 #3: 28.48  
 DRY AVG: 28.50

**WET T100**  
 #1: 29.00  
 #2: 28.90  
 #3: 28.90  
 WET AVG: 28.93

**RESPONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
**RECORD:** THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 25.60 sec.  
**RECORD:** ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 27  
**RECORD:** 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction: 1.52 %

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

FLIGHT NUMBER: HU496  
 GMT DATE: 2-23-08 LOCAL DATE: \_\_\_\_\_  
 GMT LAUNCH TIME: 19:00 LOCAL TIME: \_\_\_\_\_

BALLOON TYPE \_\_\_\_\_ Gram : Kaymont \_\_\_\_\_ Scientific Sales \_\_\_\_\_ (None)

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.012

VAISALA NUMBER (9 digit): 320303307  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_  
 SURFACE HUMIDITY : \_\_\_\_\_

SKY CONDITIONS: overcast

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

30.83

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

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

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