

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

FLT # HW508

Huntsville

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

DATE (LOCAL): 4/26/08  
INITIALS: SL  
PUMP NUMBER: 227544

PUMP CURRENT: 110.79  
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)  
WAIT 2 MINUTES:  (v)  
ADD 1.5 CC ANODE SOLUTION:  (v)  
RUN 20 MINUTES ON NO O<sub>3</sub>:  (v)

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)

Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.463  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 5/10  
INITIALS: SK

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=0.012  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:  
FLOWRATE #1: 30.44 sec  
FLOWRATE #2: 30.68  
FLOWRATE #3: 30.74  
FLOWRATE #4: 30.70  
FLOWRATE #5: 30.81  
AVERAGE T100: 30.67

**DRY T100**

#1: \_\_\_\_\_  
#2: \_\_\_\_\_  
#3: \_\_\_\_\_  
DRY AVG: \_\_\_\_\_

**WET T100**

#1: \_\_\_\_\_  
#2: \_\_\_\_\_  
#3: \_\_\_\_\_  
WET AVG: \_\_\_\_\_

**RESPONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 27.18 sec.  
RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 50  
RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 2 %

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

FLIGHT NUMBER: HW508  
GMT DATE: 5/10/08  
GMT LAUNCH TIME: 17:56:16

LOCAL DATE: 5/10/08  
LOCAL TIME: 12:56:16

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

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

VAISALA NUMBER (9 digit): 320303100  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY : \_\_\_\_\_

SKY CONDITIONS: Cloudy  
~ BURST PRESSURE (mb) : 30.58 Km.

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

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

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