

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

FLT # H0498

Huntsville

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

DATE (LOCAL): 2-23-08  
INITIALS: DLN  
PUMP NUMBER: 277297

PUMP CURRENT: 121  
PUMP PRESSURE: 210  
PUMP VACUUM: 23

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>: = 0.293  $\mu$ amps

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): 3-8-08  
INITIALS: DLN

Cathode solution date written on bottle: Aug 24, 2007  
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=0.010  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 29.26 sec  
FLOWRATE #2: 29.33  
FLOWRATE #3: 29.31  
FLOWRATE #4: 29.20  
FLOWRATE #5: 29.27  
AVERAGE T100: 29.27

**DRY T100**

#1: 28.48  
#2: 28.38  
#3: 28.39  
DRY AVG: 28.42

**WET T100**

#1: 28.93  
#2: 28.90  
#3: 28.83  
WET AVG: 28.89

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 26.50 sec.

RECORD: ROOM TEMP (C) 16 ROOM REL. HUMID. (%) 24

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction: 1.65 %

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

FLIGHT NUMBER: \_\_\_\_\_

GMT DATE: 3-8-08

LOCAL DATE: \_\_\_\_\_

GMT LAUNCH TIME: 19:03:35

LOCAL TIME: 13:03:35

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

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

VAISALA NUMBER (9 digit): 320303615

SKY CONDITIONS: clear

SURFACE PRESSURE: \_\_\_\_\_

SURFACE TEMP. (C): \_\_\_\_\_

SURFACE HUMIDITY: \_\_\_\_\_

~ BURST PRESSURE (mb): 8.515 mb  
31.74 km

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

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

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