

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

FLT # H04984

Huntsville

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

DATE (LOCAL): 1-26-08  
INITIALS: DLN  
PUMP NUMBER: 227304

PUMP CURRENT: 87.87  
PUMP PRESSURE: >10  
PUMP VACUUM: 18

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>: = 0.278 μamps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 2-9-08  
INITIALS: DLN

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 = 0.063 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 27.73 sec  
FLOWRATE #2: 27.73  
FLOWRATE #3: 27.69  
FLOWRATE #4: 27.90  
FLOWRATE #5: 27.62

**AVERAGE T100:** 27.73

**DRY T100**

#1: 28.11  
#2: 28.24  
#3: 28.21  
DRY AVG: 28.19

**WET T100**

#1: 28.88  
#2: 28.79  
#3: 28.87

WET AVG: 28.85

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 30.37 sec.

\*T100 Flowrate correction: 2.34 %

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 22

RECORD: 5 - T100 FLOWRATE TIMES:

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

FLIGHT NUMBER: H04984

GMT DATE: 2-9-08

LOCAL DATE: 2-9-08

GMT LAUNCH TIME: 18:58

LOCAL TIME: 12:58

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

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

VAISALA NUMBER (9 digit): 189211049

SKY CONDITIONS: \_\_\_\_\_

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

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

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

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

31 Km

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

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

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