

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

FLT # H2510

Huntsville

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

DATE (LOCAL): 5/17/08  
INITIALS: SL  
PUMP NUMBER: 227543

PUMP CURRENT: 86.40  
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>: = 0.360  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

**DRY T100**

DATE (LOCAL): 5/24/08  
INITIALS: B

**T100 FLOWRATE TIMES:**

Cathode solution date written on bottle: 5/24/07  
CHANGE CATHODE SOLUTION (3cc):  (v)  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)

FLOWRATE #1: 28.46 sec  
FLOWRATE #2: 28.23  
FLOWRATE #3: 28.46  
FLOWRATE #4: 28.65  
FLOWRATE #5: 28.35

#1: 28.46  
#2: 28.55  
#3: 28.45  
DRY AVG: 28.49

RECORD THE NO O<sub>3</sub> BACKGRND#1: **BG1**=0.020  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**AVERAGE T100:** 28.43

**WET T100**  
#1: 28.99  
#2: 28.99  
#3: 29.00

WET AVG: 28.99

**RESPONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 27.56 sec.

\*T100 Flowrate correction: 1.76 %

RECORD: ROOM TEMP (C) 26 ROOM REL. HUMID. (%) 56

RECORD: 5 - T100 FLOWRATE TIMES:

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

FLIGHT NUMBER: H2510

GMT DATE: 5/24/08

LOCAL DATE: 5/24/08

GMT LAUNCH TIME: 1802

LOCAL TIME: 1302

BALLOON TYPE 140D Gram: Kaymont  Scientific Sales  (v one)

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.020

VAISALA NUMBER (9 digit): 189210549

SKY CONDITIONS: Mostly Cloudy

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

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

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

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

30.88 km

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

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

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