

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

FLT # HU714

Huntsville

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

DATE (LOCAL): 11/29/2011  
INITIALS: SAH  
PUMP NUMBER: 2706679

PUMP CURRENT: 92.32  
PUMP PRESSURE: 200  
PUMP VACUUM: 522

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>: = 843  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 12/10  
INITIALS: BH

Cathode solution date written on bottle: 09/08/2011  
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 = 0.043  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 28.37 sec  
FLOWRATE #2: 28.36  
FLOWRATE #3: 28.34  
FLOWRATE #4: 28.19  
FLOWRATE #5: 28.49

AVERAGE T100: 28.15

**DRY T100**

#1: 27.92  
#2: 27.85  
#3: 27.89  
DRY AVG: 27.89

**WET T100**

#1: 28.15  
#2: 28.36  
#3: 28.22  
WET AVG: 28.24

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amp 27.5 sec.

RECORD: ROOM TEMP (C) 18.9 ROOM REL. HUMID. (%) 21

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction: 1.25%

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

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

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

GMT LAUNCH TIME : \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_

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

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

VAISALA NUMBER (9 digit): 639151012

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

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

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

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

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

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

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

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