

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

FLT # H0710

Huntsville

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

DATE (LOCAL): 11/10/2011 PUMP CURRENT: 29.56 30 MINUTES HI O<sub>3</sub>   
INITIALS: W+c PUMP PRESSURE: 21 5 MINUTE NO O<sub>3</sub>   
PUMP NUMBER: 7220532 PUMP VACUUM: 22

ADD 3.0 CC CATHODE SOLUTION:  Short the cell leads:   
WAIT 2 MINUTES:  Add about 2.5 CC more Cathode Solution (2Z)   
ADD 1.5 CC ANODE SOLUTION:  Place Instrument inside plastic bag:   
RUN 20 MINUTES ON NO O<sub>3</sub>:  Store inside Styrofoam flight box:   
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.456  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 12/2/10  
INITIALS: SKH  
Cathode solution date written on bottle: 3/10/2010  
CHANGE CATHODE SOLUTION (3cc):  (Yes/No)  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:   
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1= 0.099  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:

T100 FLOWRATE TIMES:  
FLOWRATE #1: 29.86 sec  
FLOWRATE #2: 29.02  
FLOWRATE #3: 29.93  
FLOWRATE #4: 29.11  
FLOWRATE #5: 29.08  
AVERAGE T100: 29.20

**DRY T100**  
#1: 27.69  
#2: 27.60  
#3: 27.79  
DRY AVG: 27.69  
**WET T100**  
#1: 28.07  
#2: 27.67  
#3: 27.92  
WET AVG: 27.88

**RESPONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 3.22 sec.  
RECORD: ROOM TEMP (C) 20.3 ROOM REL. HUMID. (%) 23  
RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 0.69 %

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

FLIGHT NUMBER: H0710  
GMT DATE: 11/12/2011 LOCAL DATE: 11/12/2011  
GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: 2:00

BALLOON TYPE F200 Gram: \_\_\_\_\_ Kaymont  Scientific Sales \_\_\_\_\_ (✓ one)

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): \_\_\_\_\_  
VAISALA NUMBER (9 digit): 178634049 SKY CONDITIONS: cloudy  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_ ~ BURST PRESSURE (mb): \_\_\_\_\_

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

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

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