

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
CLIMATE MONITORING AND DIAGNOSTICS LABORATORY  
**DIGITAL OZONESONDE CHECKLIST**

FLT # 44657

Huntsville

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

DATE (LOCAL): 12/11/2010 PUMP CURRENT: 99.13 30 MINUTES HI O<sub>3</sub>  (v)  
 INITIALS: SKH PUMP PRESSURE: >11 5 MINUTE NO O<sub>3</sub>  (v)  
 PUMP NUMBER: 220619 V20 PUMP VACUUM: 21

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>: = .439 μamps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 12/24/2010 **DRY T100**  
 INITIALS: WTC #1: 27.60  
 Cathode solution date written on bottle: 6/21/2010 #2: 27.73  
 CHANGE CATHODE SOLUTION (3cc):  T100 FLOWRATE TIMES: #3: 27.87  
 CHANGE ANODE SOLUTION (1.5cc):  (Yes/No) FLOWRATE #1: 29.89 sec DRY AVG: 27.23  
 RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v) FLOWRATE #2: 29.92  
 RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.006 μamps FLOWRATE #3: 29.91  
 RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v) FLOWRATE #4: 29.98 **WET T100**  
 FLOWRATE #5: 29.42 #1: 28.69  
**AVERAGE T100: 29.86** #2: 28.23  
 #3: 28.17  
**WET AVG: 28.16**

RESONSE TIME  
 SWITCH TO NO O<sub>3</sub> AIR.  
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 29.73 sec. \*T100 Flowrate correction. 1.55%  
 RECORD: ROOM TEMP (C) 17 ROOM REL. HUMID. (%) 17  
 RECORD: 5 - T100 FLOWRATE TIMES:

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

FLIGHT NUMBER: 44657  
 GMT DATE: 12/24/2010 LOCAL DATE: 12/24/2010  
 GMT LAUNCH TIME: 18:46:04 LOCAL TIME: 12:46:04

BALLOON TYPE 1000 Gram: Kaymont  Scientific Sales  (none)

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

VAISALA NUMBER (9 digit): 128323941 SKY CONDITIONS: clear  
 SURFACE PRESSURE: \_\_\_\_\_  
 SURFACE TEMP. (C): \_\_\_\_\_  
 SURFACE HUMIDITY: \_\_\_\_\_ ~ BURST PRESSURE (mb): \_\_\_\_\_  
Alt: 31.82 km

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

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

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