

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

FLT # H0734

Huntsville

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

DATE (LOCAL): 4/25/2012 PUMP CURRENT: 88.96 30 MINUTES HI O<sub>3</sub> (v)  
INITIALS: WTC PUMP PRESSURE: 29 5 MINUTE NO O<sub>3</sub> (v)  
PUMP NUMBER: 2210072 PUMP VACUUM: 22

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)  
WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)  
ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)  
RUN 20 MINUTES ON NO O<sub>3</sub>: (v) Store inside Styrofoam flight box: (v)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.522  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 5/5/2012 **DRY T100**  
INITIALS: WTC #1: 30.5  
Cathode solution date written on bottle: 5/5/2012 #2: 30.4  
CHANGE CATHODE SOLUTION (3cc): (v) #3: 30.5  
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No) #4: 30.46  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES: (v) #5: 30.7  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.092  $\mu$ amps #6: 30.9  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: (v) #7: 30.8  
**AVERAGE T100:** 29.66 **WET T100**  
**WET AVG:** 30.8

**RESPONSE TIME**

SWITCH TO NO O<sub>3</sub> AIR.  
RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 27.5 sec.  
RECORD: ROOM TEMP (C) 24.0 ROOM REL. HUMID. (%) 52 \*T100 Flowrate correction. 1.12%  
RECORD: 5 - T100 FLOWRATE TIMES:

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

FLIGHT NUMBER: H0734  
GMT DATE: 5/5/2012 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): 1230223946 SKY CONDITIONS: cloudy  
SURFACE PRESSURE: \_\_\_\_\_ no rain  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_ ~ BURST PRESSURE (mb): 30.746

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

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

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