

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

FLT # 140544

Huntsville

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

DATE (LOCAL): 11/24/08 PUMP CURRENT: 94.76 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: SL PUMP PRESSURE: >10 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 227426 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>: = 0.312  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

**DRY T100**

DATE (LOCAL): \_\_\_\_\_ #1: 28.44  
INITIALS: YR/BH #2: 28.47  
Cathode solution date written on bottle: \_\_\_\_\_ #3: 28.56  
CHANGE CATHODE SOLUTION (3cc):  (v) T100 FLOWRATE TIMES: #4: 28.49  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No) FLOWRATE #1: 29.39 29.18  
FLOWRATE #2: 29.32 29.26 DRY AVG: 28.49

RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v) FLOWRATE #3: 29.27 29.17  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1= 0.03  $\mu$ amps FLOWRATE #4: 29.30 29.17  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v) FLOWRATE #5: 29.16 29.35  
AVERAGE T100: 29.28 29.22

**WET T100**

RESONSE TIME #1: 29.07  
SWITCH TO NO O<sub>3</sub> AIR. #2: 29.03  
RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 30.09 sec. \*T100 Flowrate correction: 1.96 %  
RECORD: ROOM TEMP (C) 14.0 ROOM REL. HUMID. (%) 177  
RECORD: 5 - T100 FLOWRATE TIMES: #3: 29.07  
WET AVG: 29.05

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

FLIGHT NUMBER: 140544  
GMT DATE: 12/06/08 LOCAL DATE: 12/06/08  
GMT LAUNCH TIME: 19:06:19 LOCAL TIME: 13:06:19

BALLOON TYPE 1200 Gram: Kaymont  Scientific Sales  (v one)

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

VAISALA NUMBER (9 digit): 516505404 SKY CONDITIONS: cloudy, windy  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_  
~ BURST PRESSURE (mb): 34.520 / 30.8  
5604

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

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

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