

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

FLT # HU509

Huntsville

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

DATE (LOCAL): 5/13/08  
INITIALS: IS  
PUMP NUMBER: 227548

PUMP CURRENT: 83.62  
PUMP PRESSURE: 3.11  
PUMP VACUUM: 22

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>: = 0.496  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 5/17/08  
INITIALS: SL

**DRY T100**

#1: 28.37  
#2: 28.43  
#3: 28.44  
DRY AVG: 28.41

**T100 FLOWRATE TIMES:**

Cathode solution date written on bottle: 8/24/07  
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**=0.020  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

FLOWRATE #1: 28.51 sec  
FLOWRATE #2: 28.37  
FLOWRATE #3: 28.37  
FLOWRATE #4: 28.44  
FLOWRATE #5: 28.40

**AVERAGE T100:** 28.42

**WET T100**

#1: 28.86  
#2: 28.91  
#3: 28.95  
WET AVG: 28.91

**RESPONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 29.60 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 34

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.76%

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

FLIGHT NUMBER: HU509

GMT DATE: 5/17/08

GMT LAUNCH TIME: 18:06

LOCAL DATE: 5/17/08

LOCAL TIME: 13:06

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

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.020

VAISALA NUMBER (9 digit): 320303302

SURFACE PRESSURE: /

SURFACE TEMP. (C): /

SURFACE HUMIDITY: /

SKY CONDITIONS: clear / partly cloudy

~ BURST PRESSURE (mb): 10.096 at 31.11 km

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

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

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