

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

FLT # HU501

Huntsville

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

DATE (LOCAL): 03/14/09  
INITIALS: SL  
PUMP NUMBER: 277967

PUMP CURRENT: 101.31  
PUMP PRESSURE: 210  
PUMP VACUUM: 21

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>: = 0.406  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 3/28/09  
INITIALS: SLB, WC

Cathode solution date written on bottle: 3/14/08  
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=0.007  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 30.09 sec  
FLOWRATE #2: 30.13  
FLOWRATE #3: 30.09  
FLOWRATE #4: 30.14  
FLOWRATE #5: 30.13

**DRY T100**  
#1: 28.30  
#2: 28.31  
#3: 28.32  
DRY AVG: 28.31

**AVERAGE T100:** 30.116

**WET T100**  
#1: 28.70  
#2: 28.74  
#3: 28.54  
WET AVG: 28.666

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 22.83 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 52

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction: 1.24%

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

FLIGHT NUMBER: HU501

GMT DATE: 3/28/09

LOCAL DATE: 3/28/09

GMT LAUNCH TIME: \_\_\_\_\_

LOCAL TIME: \_\_\_\_\_

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

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.007

VAISALA NUMBER (9 digit): 723200101

SURFACE PRESSURE: \_\_\_\_\_

SURFACE TEMP. (C): \_\_\_\_\_

SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: partly cloudy  
windy

~ BURST PRESSURE (mb): 8.160 at 32.25 K<sub>1</sub>

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

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

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