

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

FLT # HU612

Huntsville

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

DATE (LOCAL): 2/27/10  
INITIALS: B  
PUMP NUMBER: 278543

PUMP CURRENT: 91.29  
PUMP PRESSURE: > 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>: ~~22.352~~ 0.352  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 3/13/10  
INITIALS: WTC

Cathode solution date written on bottle: 10/14/10  
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=~~ 0.014  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 28.59 sec  
FLOWRATE #2: 28.47  
FLOWRATE #3: 28.37  
FLOWRATE #4: 28.21  
FLOWRATE #5: 28.40

**DRY T100**  
#1: 27.77  
#2: 27.52  
#3: 27.85  
DRY AVG: 27.71

**AVERAGE T100:** 28.41

**WET T100**  
#1: 28.04  
#2: 28.24  
#3: 28.07  
WET AVG: 28.12

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 26.79 sec.

\*T100 Flowrate correction: 1.47%

RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 28

RECORD: 5 - T100 FLOWRATE TIMES:

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

FLIGHT NUMBER: HU612  
GMT DATE: 3/13/10  
GMT LAUNCH TIME: 18:11:25

LOCAL DATE: 3/13/10  
LOCAL TIME: 13:11:25

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales  (one)

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

VAISALA NUMBER (9 digit): 309015848  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Cloudy

~ BURST PRESSURE (mb): \_\_\_\_\_  
Alt: 34.76 km

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

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

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