

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

FLT # HU511

Huntsville

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

DATE (LOCAL): 5/10/08  
INITIALS: SK  
PUMP NUMBER: 227534

PUMP CURRENT: 96  
PUMP PRESSURE: 11  
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>: = 0.463  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

**DRY T100**

DATE (LOCAL): 5/31/08  
INITIALS: SK

#1: \_\_\_\_\_  
#2: \_\_\_\_\_  
#3: \_\_\_\_\_

Cathode solution date written on bottle: 8/20/07  
CHANGE CATHODE SOLUTION (3cc):  (v)  
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 28.77 sec  
FLOWRATE #2: 28.82  
FLOWRATE #3: 28.86  
FLOWRATE #4: 28.81  
FLOWRATE #5: 28.86

DRY AVG: \_\_\_\_\_

RECORD THE NO O<sub>3</sub> BACKGRND#1: **BG1**= 0.013  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

**AVERAGE T100:** 28.82

**WET T100**

#1: \_\_\_\_\_  
#2: \_\_\_\_\_  
#3: \_\_\_\_\_

WET AVG: \_\_\_\_\_

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 24.37 sec.

\*T100 Flowrate correction. 2 %

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 60

RECORD: 5 - T100 FLOWRATE TIMES:

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

FLIGHT NUMBER: HU511

GMT DATE: 5/31/08

LOCAL DATE: 5/31/08

GMT LAUNCH TIME: 17:20:07

LOCAL TIME: 12:20:07

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

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

VAISALA NUMBER (9 digit): 219110350

SKY CONDITIONS: partly cloudy

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

low clouds 1 km

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

westerly wind

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

~ BURST PRESSURE (mb): 33.72 km

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

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

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