

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

FLT # HU524

Huntsville

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

DATE (LOCAL): 9/8/2008  
INITIALS: SK / Brian  
PUMP NUMBER: 227866

PUMP CURRENT: 87.0  
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>: = 0.495 μamps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 8/13/08  
INITIALS: SL & OH

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**= 0.023 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: 28 (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 28.38 sec  
FLOWRATE #2: 28.24  
FLOWRATE #3: 28.20  
FLOWRATE #4: 28.34  
FLOWRATE #5: 28.29

**AVERAGE T100:** 28.29

**DRY T100**

#1: 28.56  
#2: 28.47  
#3: 28.57  
DRY AVG: 28.53

**WET T100**

#1: 29.01  
#2: 29.98  
#3: 29.03

WET AVG: 29.02

**RESONSE TIME**

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

**RECORD:** THE TIME TO DROP FROM 4 TO 1.5 μamps: 28.38 sec.

**RECORD:** ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 51

**RECORD:** 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.72%

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

FLIGHT NUMBER: HU524

GMT DATE: 14/08/2008

LOCAL DATE: 14/08/2008

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

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

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

O<sub>3</sub> BACKGROUND (μamps from F9 key): 0.023

VAISALA NUMBER (9 digit): 516102114

SKY CONDITIONS: partly cloudy

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

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

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

~ BURST PRESSURE (mb): 9.899 / Alt: 31.554

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

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

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