

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

FLT# HV547

Huntsville

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

DATE (LOCAL): 13/12/08  
INITIALS: YR/PB  
PUMP NUMBER: 2 Z 8051

PUMP CURRENT: 85.03  
PUMP PRESSURE: 10  
PUMP VACUUM: 19

30 MINUTES HI O<sub>3</sub> 1 (v)  
5 MINUTE NO O<sub>3</sub> 1 (v)

ADD 3.0 CC CATHODE SOLUTION: 1 (v)  
WAIT 2 MINUTES: 1 (v)  
ADD 1.5 CC ANODE SOLUTION: 1 (v)  
RUN 20 MINUTES ON NO O<sub>3</sub>: 1 (v)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 760 μamps

Short the cell leads: 1 (v)  
Add about 2.5 CC more Cathode Solution (2Z) 1 (v)  
Place Instrument inside plastic bag: 1 (v)  
Store inside Styrofoam flight box: 1 (v)

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 12/27  
INITIALS: YR/SK

Cathode solution date written on bottle: \_\_\_\_\_  
CHANGE CATHODE SOLUTION (3cc): 1 (v)  
CHANGE ANODE SOLUTION (1.5cc): 1 (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES: 1 (v)  
RECORD THE NO O<sub>3</sub> BACKGRND#1: **BG1**= 0.011 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: \_\_\_\_\_ (v)

**T100 FLOWRATE TIMES:**

FLOWRATE #1: 28.47 sec  
FLOWRATE #2: 28.41  
FLOWRATE #3: 28.36  
FLOWRATE #4: 28.32  
FLOWRATE #5: 28.27

**AVERAGE T100:** 28.36

**DRY T100**

#1: 28.27  
#2: 28.31  
#3: 28.69

DRY AVG: 28.25

**WET T100**

#1: 28.83  
#2: 28.93  
#3: 28.92

WET AVG: 28.89

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 25.67 sec.

RECORD: ROOM TEMP (C) 20°C ROOM REL. HUMID. (%) 47

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction: 1.91 %

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

FLIGHT NUMBER: HV547  
GMT DATE: 12/27  
GMT LAUNCH TIME: 19:18:59

LOCAL DATE: 12/27  
LOCAL TIME: 13:18:59

BALLOON TYPE 1200 Gram: Kaymont 1 Scientific Sales \_\_\_\_\_ (v one)

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

VAISALA NUMBER (9 digit): 320602806  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Windy, Clear.

~ BURST PRESSURE (mb): 6.729

REMARKS: I forgot to remove the cap from the temperature sensor of the vaisala.

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

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