

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

FLT # HU542

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 15/11/08  
INITIALS: YR & SL  
PUMP NUMBER: 227869

PUMP CURRENT: 86.45  
PUMP PRESSURE: 23  
PUMP VACUUM: >10

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)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.407 μamps

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)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/22/08  
INITIALS: YR & BH

Cathode solution date written on bottle: 7/11/08  
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=0.024 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: ^ (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.07 sec  
FLOWRATE #2: 29.27  
FLOWRATE #3: 29.17  
FLOWRATE #4: 29.29  
FLOWRATE #5: 29.14

AVERAGE T100: 29.188

DRY T100

#1: 28.72  
#2: 28.63  
#3: 28.62  
DRY AVG: 28.65

WET T100

#1: 29.07  
#2: 28.99  
#3: 28.85  
WET AVG: 28.97

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 27.53 sec.

RECORD: ROOM TEMP (C) 14.4°C ROOM REL. HUMID. (%) 12%

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.11 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU542  
GMT DATE: 11/22/08  
GMT LAUNCH TIME: 18:59:20

LOCAL DATE: 11/22/08  
LOCAL TIME: 12:59:20

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

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

VAISALA NUMBER (9 digit): 320602912  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: windy, no cloud

~ BURST PRESSURE (mb): 30.68 hPa / 10.151

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

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

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