

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

FLT# 46651

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/30/2010 PUMP CURRENT: 91.37 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: SC PUMP PRESSURE: 710 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 279463 V2D PUMP VACUUM: 18

ADD 3.0 CC CATHODE SOLUTION:  (v) Short the cell leads:  (v)  
WAIT 2 MINUTES:  (v) Add about 2.5 CC more Cathode Solution (2Z)  (v)  
ADD 1.5 CC ANODE SOLUTION:  (v) Place Instrument inside plastic bag:  (v)  
RUN 20 MINUTES ON NO O<sub>3</sub>  (v) Store inside Styrofoam flight box:  (v)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.442  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/13/2010  
INITIALS: WTC  
Cathode solution date written on bottle: 6/21/2010  
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=0.015  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.83 sec  
FLOWRATE #2: 29.85  
FLOWRATE #3: 29.88  
FLOWRATE #4: 29.76  
FLOWRATE #5: 29.78  
AVERAGE T100: 29.82

DRY T100

#1: 27.066  
#2: 27.077  
#3: 27.096  
DRY AVG: 27.083

WET T100

#1: 28.25  
#2: 28.31  
#3: 28.20  
WET AVG: 28.25

RESPONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 31.51 sec.

RECORD: ROOM TEMP (C) 20.6 ROOM REL. HUMID. (%) 38

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 143%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 46651  
GMT DATE: 11/13/2010 LOCAL DATE: 11/13/2010  
GMT LAUNCH TIME: 19:05:50 LOCAL TIME: 13:05:50

BALLOON TYPE 1200 Gram: Kaymont  Scientific Sales  (none)

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

VAISALA NUMBER (9 digit): 229112950  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: clear

~ BURST PRESSURE (mb): \_\_\_\_\_  
Alt = 28.8 km

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

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

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