

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

FLT # \_\_\_\_\_

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/13/2010  
INITIALS: WTC  
PUMP NUMBER: 229467-V20

PUMP CURRENT: 82.98  
PUMP PRESSURE: 211  
PUMP VACUUM: 23

30 MINUTES HI O<sub>3</sub>   
5 MINUTE NO O<sub>3</sub>

ADD 3.0 CC CATHODE SOLUTION:   
WAIT 2 MINUTES:   
ADD 1.5 CC ANODE SOLUTION:   
RUN 20 MINUTES ON NO O<sub>3</sub>

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

Record the current after the 20 MINUTES ON NO O<sub>3</sub> = 0.690  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/4/10  
INITIALS: WTC  
Cathode solution date written on bottle: 6/21/2010  
CHANGE CATHODE SOLUTION (3cc):   
CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:   
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1=0.018  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:

T100 FLOWRATE TIMES:  
FLOWRATE #1: 29.01 sec  
FLOWRATE #2: 29.03  
FLOWRATE #3: 29.90  
FLOWRATE #4: 29.26  
FLOWRATE #5: 29.13  
AVERAGE T100: 29.10

DRY T100  
#1: 27.65  
#2: 27.63  
#3: 27.79  
DRY AVG: 27.69  
WET T100  
#1: 29.17  
#2: 28.46  
#3: 28.25  
WET AVG: 28.28

RESPONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 21.61 sec.

RECORD: ROOM TEMP (C) 18.9 ROOM REL. HUMID. (%) 39

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction 2.13%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H0654  
GMT DATE: 12/4  
GMT LAUNCH TIME: 19:14

LOCAL DATE: 12/4  
LOCAL TIME: 1:14

BALLOON TYPE 1206 Gram: Kaymont  Scientific Sales  (none)

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

VAISALA NUMBER (9 digit): 229113247  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Cloudy

~ BURST PRESSURE (mb): \_\_\_\_\_  
Alt: 36.85 km

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

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

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