

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

FLT# H4656

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/27 PUMP CURRENT: 81.10 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: BA PUMP PRESSURE: 710 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 229618V2D PUMP VACUUM: 19

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>: = 0.453  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/18/2010  
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= 0.008  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:  
FLOWRATE #1: 29.35 sec  
FLOWRATE #2: 29.22  
FLOWRATE #3: 29.25  
FLOWRATE #4: 29.24  
FLOWRATE #5: 29.27  
AVERAGE T100: 29.26

DRY T100  
#1: 27.87  
#2: 27.97  
#3: 27.93  
DRY AVG: 27.92  
WET T100  
#1: 28.24  
#2: 28.23  
#3: 28.29  
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: 29.41 sec.  
RECORD: ROOM TEMP (C) 16 ROOM REL. HUMID. (%) 28  
RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.18%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4656  
GMT DATE: 12/18/2010 LOCAL DATE: 12/18/2010  
GMT LAUNCH TIME: 19:26:29 LOCAL TIME: 13:26:29

BALLOON TYPE 900 Gram: Kaymont  Scientific Sales  (none)

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

VAISALA NUMBER (9 digit): 168711945  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Partly Cloudy

~ BURST PRESSURE (mb): \_\_\_\_\_

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

Alt: 32.74 km

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

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