

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

FLT # H6646

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/2/2010  
INITIALS: SC: BH  
PUMP NUMBER: 2Z9408-V20

PUMP CURRENT: 93.65  
PUMP PRESSURE: 710  
PUMP VACUUM: 21

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

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>: = 0.612  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/16/2010  
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= 0.026  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.53 sec  
FLOWRATE #2: 29.58  
FLOWRATE #3: 29.40  
FLOWRATE #4: 29.54  
FLOWRATE #5: 29.27  
AVERAGE T100: 29.46

DRY T100

#1: 27.69  
#2: 27.79  
#3: 27.89  
DRY AVG: 27.79

WET T100

#1: 28.81  
#2: 28.09  
#3: 28.05  
WET AVG: 28.08

RESPONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 29.67 sec.

RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 34

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.04 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H6646  
GMT DATE: 10/16/2010  
GMT LAUNCH TIME: 18:13:09

LOCAL DATE: 10/16/2010  
LOCAL TIME: 13:13:09

BALLOON TYPE 1000 Gram: Kaymont  Scientific Sales  (v one)

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

VAISALA NUMBER (9 digit): 128323953  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb): \_\_\_\_\_  
Alt: 33.0 fm

REMARKS:

launched @ Shelby Center for Weatherfest ~~2010~~ 2010!

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

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