

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

FLT # H4845

Huntsville

**INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.**

DATE (LOCAL): 12/14/2013 PUMP CURRENT: 91.23 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: NLP PUMP PRESSURE: >10 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 2224599 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>: = 0.164  $\mu$ amps

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 12/28/2013 **DRY T100**  
INITIALS: NLP #1: \_\_\_\_\_  
Cathode solution date written on bottle: 239 #2: \_\_\_\_\_  
CHANGE CATHODE SOLUTION (3cc):  (v) #3: \_\_\_\_\_  
CHANGE ANODE SOLUTION (1.5cc):  (v) (Yes/No) FLOWRATE #1: \_\_\_\_\_ sec DRY AVG: \_\_\_\_\_  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v) FLOWRATE #2: \_\_\_\_\_  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1= 0.054  $\mu$ amps FLOWRATE #3: \_\_\_\_\_  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v) FLOWRATE #4: \_\_\_\_\_ **WET T100**  
#1: \_\_\_\_\_  
#2: \_\_\_\_\_  
#3: \_\_\_\_\_  
WET AVG: \_\_\_\_\_

**T100 FLOWRATE TIMES:**

FLOWRATE #1: \_\_\_\_\_ sec  
FLOWRATE #2: \_\_\_\_\_  
FLOWRATE #3: \_\_\_\_\_  
FLOWRATE #4: \_\_\_\_\_  
FLOWRATE #5: \_\_\_\_\_  
**AVERAGE T100:** \_\_\_\_\_

**RESONSE TIME**

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 33.83 sec.

RECORD: ROOM TEMP (C) 11.8 ROOM REL. HUMID. (%) 25.22

\*T100 Flowrate correction. \_\_\_\_\_ %

RECORD: 5 - T100 FLOWRATE TIMES:

**DAY OF FLIGHT @ THE LAUNCH SITE.**

FLIGHT NUMBER: H4845  
GMT DATE: 12/28/2013 LOCAL DATE: 12/28/2013  
GMT LAUNCH TIME: 19:00 LOCAL TIME: 13:00

BALLOON TYPE 1200 Gram: Kaymont \_\_\_\_\_ Scientific Sales \_\_\_\_\_ (None) Hwoyee

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.054

VAISALA NUMBER (9 digit): 20975  
SURFACE PRESSURE: 998.9  
SURFACE TEMP. (C): 5.8  
SURFACE HUMIDITY: 74.5

SKY CONDITIONS: Rain, High near 50  
SE Wind 5 to 10 mph.

~ BURST PRESSURE (mb): 34.41

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

weighoff = 1700 grams

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