

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

FLT # HU606

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 1/16/10  
INITIALS: SL  
PUMP NUMBER: 278688

PUMP CURRENT: 88.16  
PUMP PRESSURE: >10  
PUMP VACUUM: 22

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

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

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

Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.434  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 01/30/2010  
INITIALS: BM

Cathode solution date written on bottle: 10/14/2009  
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 = 0.017  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.10 sec  
FLOWRATE #2: 28.50  
FLOWRATE #3: 28.40  
FLOWRATE #4: 28.52  
FLOWRATE #5: 28.43

AVERAGE T100: 28.51

DRY T100

#1: 27.83  
#2: 28.07  
#3: 27.87  
DRY AVG: 27.92

WET T100

#1: 28.37  
#2: 28.40  
#3: 28.40  
WET AVG: 28.39

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 24.82 sec.

RECORD: ROOM TEMP (C) 18 ROOM REL. HUMID. (%) 23

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction 1.68 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU606  
GMT DATE: 01/30/2010  
GMT LAUNCH TIME: 18:54

LOCAL DATE: 01/30/2010  
LOCAL TIME: 12:54

BALLOON TYPE \_\_\_\_\_ Gram : Kaymont \_\_\_\_\_ Scientific Sales \_\_\_\_\_ (v one)

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

VAISALA NUMBER (9 digit): 309016042  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY : \_\_\_\_\_

SKY CONDITIONS: Windy and Snowing.

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

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

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

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