

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

FLT # HU567

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): \_\_\_\_\_ PUMP CURRENT: 83.39 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: WC/BH PUMP PRESSURE: 11.16 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 2Z7963 PUMP VACUUM: 20 in

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>: = 0.103 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/9/09  
INITIALS: WC  
Cathode solution date written on bottle: 7/16/2008  
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= 0.010 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: \_\_\_\_\_ (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.31 sec  
FLOWRATE #2: 29.11  
FLOWRATE #3: 29.12  
FLOWRATE #4: 29.16  
FLOWRATE #5: 29.19

DRY T100

#1: 28.33  
#2: 28.26  
#3: 28.25  
DRY AVG: 28.28

WET T100

#1: 28.81  
#2: 28.80  
#3: 28.75  
WET AVG: 28.78

AVERAGE T100: 29.17

\*T100 Flowrate correction: 1.76 %

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 25.68 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 65

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU567  
GMT DATE: 9/5/09 LOCAL DATE: 9/5/09  
GMT LAUNCH TIME: 18:06:53 LOCAL TIME: 13:06:53

BALLOON TYPE 1200 Gram: Kaymont  Scientific Sales \_\_\_\_\_ (v one)

O<sub>3</sub> BACKGROUND (μamps from F9 key): \_\_\_\_\_

VAISALA NUMBER (9 digit): 221404101  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Cloudy

~ BURST PRESSURE (mb): 5.76  
Altitude: 34.95

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

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

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