

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

FLT # 577

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 06/27/09  
INITIALS: BH  
PUMP NUMBER: 228238

PUMP CURRENT: 84.96  
PUMP PRESSURE: 210  
PUMP VACUUM: 29.6

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)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.543 μamps

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)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/11/09  
INITIALS: B

Cathode solution date written on bottle: 4/17/09  
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=0.044 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.65 sec  
FLOWRATE #2: 29.92  
FLOWRATE #3: 29.47  
FLOWRATE #4: 29.51  
FLOWRATE #5: 29.50  
AVERAGE T100: 29.62

DRY T100

#1: 27.89  
#2: 27.97  
#3: 28.05  
DRY AVG: 27.97

WET T100

#1: 28.73  
#2: 29.87  
#3: 28.92  
WET AVG: 28.84

RESPONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 24.09 sec.

RECORD: ROOM TEMP (C) 25 ROOM REL. HUMID. (%) 50

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 3.11 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu 577  
GMT DATE: 7/11/09  
GMT LAUNCH TIME: 1756

LOCAL DATE: 7/11/09  
LOCAL TIME: 1256

BALLOON TYPE 1400 Gram: Kaymont  Scientific Sales  (v one)

O<sub>3</sub> BACKGROUND (μamps from F9 key): 0.014

VAISALA NUMBER (9 digit): 723201002  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: \_\_\_\_\_

~ BURST PRESSURE (mb): 6.48  
34.76 km

REMARKS: Bad data !!

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

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