

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

FLT # HU575

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/13/09  
INITIALS: B  
PUMP NUMBER: 228243

PUMP CURRENT: 86.22  
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)  
Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 0.387  $\mu$ amps

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): 06/27/09  
INITIALS: BH

Cathode solution date written on bottle: 04/17/09  
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=0.036  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: 25.37 (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.54 sec  
FLOWRATE #2: 28.62  
FLOWRATE #3: 28.72  
FLOWRATE #4: 28.69  
FLOWRATE #5: 28.73

AVERAGE T100: 28.66

DRY T100

#1: 28.06  
#2: 28.29  
#3: 28.17  
DRY AVG: 28.17

WET T100

#1: 28.66  
#2: 28.76  
#3: 28.74  
WET AVG: 28.72

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 25.37 sec.

RECORD: ROOM TEMP (C) 25 ROOM REL. HUMID. (%) 43

RECORD: 5 T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.95 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 575  
GMT DATE: 06/27/09  
GMT LAUNCH TIME: \_\_\_\_\_

LOCAL DATE: 06/27/09  
LOCAL TIME: \_\_\_\_\_

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

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

VAISALA NUMBER (9 digit): 723200501  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: sunny, no cloud,  
with some wind.

- BURST PRESSURE (mb): 40.599/2.520

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

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

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