

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

FLT # 614

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3/13/10 PUMP CURRENT: 80.14 30 MINUTES HI O<sub>3</sub>  (v)  
INITIALS: WTC PUMP PRESSURE: 11 5 MINUTE NO O<sub>3</sub>  (v)  
PUMP NUMBER: 228886 PUMP VACUUM: 23

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>: = 0.342  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 03/27/2010  
INITIALS: BH  
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: BGI = 0.041  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.37 sec  
FLOWRATE #2: 29.38  
FLOWRATE #3: 29.40  
FLOWRATE #4: 29.14  
FLOWRATE #5: 29.21  
AVERAGE T100: 29.30

DRY T100

#1: 27.85  
#2: 27.87  
#3: 28.04  
DRY AVG: 27.92

WET T100

#1: 28.37  
#2: 28.26  
#3: 28.40  
WET AVG: 28.34

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 29.57 sec.  
RECORD: ROOM TEMP (C) 18 ROOM REL. HUMID. (%) 29  
RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction 1.50%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 614  
GMT DATE: 03/27/2010 LOCAL DATE: 03/27/2010  
GMT LAUNCH TIME: 17:52:14 LOCAL TIME: 12:52:14

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

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

VAISALA NUMBER (9 digit): ~~148752542~~ 148752542 SKY CONDITIONS: Windy  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_ ~ BURST PRESSURE (mb): \_\_\_\_\_

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

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

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