

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

FLT # HU 576

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/20/09  
INITIALS: WC  
PUMP NUMBER: 228237

PUMP CURRENT: 79.92  
PUMP PRESSURE: 11  
PUMP VACUUM: 23

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

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>: = 0.429 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/4/09  
INITIALS: WC

Cathode solution date written on bottle: 4/17/09  
CHANGE CATHODE SOLUTION (3cc):  (v)  
CHANGE ANODE SOLUTION (1.5cc):  (v) (Yes/No)  
RUN ON NO O<sub>3</sub> FOR 5 MINUTES:  (v)  
RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1=0.029 μamps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.24 sec  
FLOWRATE #2: 29.23  
FLOWRATE #3: 29.28  
FLOWRATE #4: 29.24  
FLOWRATE #5: 29.26

AVERAGE T100: 29.25

DRY T100

#1: 28.23  
#2: 28.21  
#3: 28.25  
DRY AVG: 28.23

WET T100

#1: 28.76  
#2: 28.77  
#3: 28.68  
WET AVG: 28.73

RESPONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 29.55 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 40

RECORD: 5 - T100 FLOWRATE TIMES:

\*T100 Flowrate correction. 1.77%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 576  
GMT DATE: 7/4/09  
GMT LAUNCH TIME: 18:02:05

LOCAL DATE: 7/4/09  
LOCAL TIME: 1:02:05

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

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

VAISALA NUMBER (9 digit): 721404407  
SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

SKY CONDITIONS: Light Clouds, 3-5mph wind

~ BURST PRESSURE (mb): 6.010  
Alt: 34.8 km

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

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

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