

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

FLT # HU488

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/22/07  
INITIALS: PT  
PUMP NUMBER: 227249

PUMP CURRENT: 80.96  
PUMP PRESSURE: 20  
PUMP VACUUM: >11

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)

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)

Record the current after the 20 MINUTES ON NO O<sub>3</sub>: = 301  $\mu$ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12-29-07  
INITIALS: SL

Cathode solution date written on bottle: 8-24-07  
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=0.012  $\mu$ amps  
RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.78 sec  
FLOWRATE #2: 28.57  
FLOWRATE #3: 28.62  
FLOWRATE #4: 28.73  
FLOWRATE #5: 28.65

AVERAGE T100: 28.67

DRY T100

#1: 28.14

#2: 28.10

#3: 28.08

DRY AVG: 28.11

WET T100

#1: 28.43

#2: 28.60

#3: 28.65

WET AVG: 28.63

RESONSE TIME

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

RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 24.85 sec.

\*T100 Flowrate correction. 1.85 %

RECORD: ROOM TEMP (C) 22° ROOM REL. HUMID. (%) 30%

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

Bearings should be: NE

FLIGHT NUMBER: HU 488  
GMT DATE: 12-29-07  
GMT LAUNCH TIME: 19:05

LOCAL DATE: 12-29-07  
LOCAL TIME: 13:05

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

O<sub>3</sub> BACKGROUND ( $\mu$ amps from F9 key): 0.012

VAISALA NUMBER (9 digit): 320510214

SKY CONDITIONS: clear/partly cloudy

SURFACE PRESSURE: \_\_\_\_\_  
SURFACE TEMP. (C): \_\_\_\_\_  
SURFACE HUMIDITY: \_\_\_\_\_

~ BURST PRESSURE (mb): \_\_\_\_\_

REMARKS: bad flight, very weak signal & bad reception, most likely bad  
vaisala. lost signal at 11.2 km

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

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