

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

FLT # HU491

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 01/05/08
INITIALS: SL
PUMP NUMBER: 227250

PUMP CURRENT: 83.00
PUMP PRESSURE: 710
PUMP VACUUM: 23

30 MINUTES HI O₃ (v)
5 MINUTE NO O₃ (v)

ADD 3.0 CC CATHODE SOLUTION: (v)
WAIT 2 MINUTES: (v)
ADD 1.5 CC ANODE SOLUTION: (v)
RUN 20 MINUTES ON NO O₃: (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 O₃: = 0.254 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 01/19/08
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 O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1=0.012 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.67 sec
FLOWRATE #2: 28.67
FLOWRATE #3: 28.58
FLOWRATE #4: 28.66
FLOWRATE #5: 28.69

AVERAGE T100: 28.65

DRY T100

#1: 28.23
#2: 28.18
#3: 28.27
DRY AVG: 28.23

WET T100

#1: 28.67
#2: 28.70
#3: 28.77
WET AVG: 28.71

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.41 sec.

*T100 Flowrate correction: 1.70 %

RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 15

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU491
GMT DATE: 01/19/08
GMT LAUNCH TIME: 19:03

LOCAL DATE: 01/19/08
LOCAL TIME: 13:03

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

O₃ BACKGROUND (μ amps from F9 key): 0.012

VAISALA NUMBER (9 digit): 516101503
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Overcast, windy,
cold

- BURST PRESSURE (mb): 7.850
burst at: 32.42 km

REMARKS: _____

weighoff = _____ grams

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