

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

FLT # H0497

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2-23-08
INITIALS: DW
PUMP NUMBER: 227296

PUMP CURRENT: 94.66
PUMP PRESSURE: 29
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: = 0.3401 μ amps
0.337

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 03/01/08
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 = 0.018 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.17 sec
FLOWRATE #2: 28.05
FLOWRATE #3: 28.07
FLOWRATE #4: 28.12
FLOWRATE #5: 28.05

DRY T100
#1: 28.21
#2: 28.21
#3: 28.24
DRY AVG: 28.22

AVERAGE T100: 28.09

WET T100
#1: 28.87
#2: 28.88
#3: 28.89
WET AVG: 28.85

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 26.00 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 27

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 2.23%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H0497
GMT DATE: 03/01/08
GMT LAUNCH TIME: 19:00:08

LOCAL DATE: 03/01/08
LOCAL TIME: 13:00:08

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (None)

O₃ BACKGROUND (μ amps from F9 key): 0.018

VAISALA NUMBER (9 digit): 516101705
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: clear

~ BURST PRESSURE (mb): 9.132
burst alt: 31.21 km

REMARKS: _____

weighoff = _____ grams

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