

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

FLT # 14527

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/15/08
INITIALS: JB/BH
PUMP NUMBER: 227861

PUMP CURRENT: 81.51
PUMP PRESSURE: 9
PUMP VACUUM: 922

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)
Record the current after the 20 MINUTES ON NO O₃: = 0.511 μ amps

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)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/16/08
INITIALS: SL

DRY T100

#1: 28.70
#2: 28.70
#3: 28.63
DRY AVG: 28.68

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=0.038 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: 30.07 (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.25 sec
FLOWRATE #2: 29.37
FLOWRATE #3: 29.20
FLOWRATE #4: 29.20
FLOWRATE #5: 29.25
AVERAGE T100: 29.27

WET T100

#1: 28.91
#2: 28.95
#3: 28.99
WET AVG: 28.95

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 30.01 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 44

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 0.94%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 14527
GMT DATE: 08/17/08
GMT LAUNCH TIME: 13:01

LOCAL DATE: 08/17/08
LOCAL TIME: 8:01 AM

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

O₃ BACKGROUND (μ amps from F9 key): 0.038

VAISALA NUMBER (9 digit): 514102000
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb): 9.380/115, 31.823

REMARKS: _____

weighoff = _____ grams

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