

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

FLT# HU652

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/23/2010
INITIALS: SC
PUMP NUMBER: 229466-V20

PUMP CURRENT: 86.82
PUMP PRESSURE: >10
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: = 0.590 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/20/2010
INITIALS: SC

Cathode solution date written on bottle: 6/21/2010
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=0.030 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.92 sec
FLOWRATE #2: 28.87
FLOWRATE #3: 28.80
FLOWRATE #4: 28.94
FLOWRATE #5: 28.88

DRY T100

#1: 27.65
#2: 27.71
#3: 27.73
DRY AVG: 27.69

WET T100

#1: 28.13
#2: 28.24
#3: 28.33
WET AVG: 28.23

AVERAGE T100: 28.88

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.77 sec.

*T100 Flowrate correction: 1.95 %

RECORD: ROOM TEMP (C) 20.2 ROOM REL. HUMID. (%) 41

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU652

GMT DATE: 11/20/2010

LOCAL DATE: 11/20/2010

GMT LAUNCH TIME: 18:51:11

LOCAL TIME: 12:51:11

BALLOON TYPE 800 Gram: Kaymont Scientific Sales (none)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 229112947

SKY CONDITIONS: ~~Partly Cloudy~~ Partly Cloudy
slightly breezy

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): 29.50 km

REMARKS: _____

weighoff = _____ grams

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