

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

FLT # HU640

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT:

DATE (LOCAL): 9/11/2010
INITIALS: SC ? WC
PUMP NUMBER: 229420-V20

PUMP CURRENT: 82.28
PUMP PRESSURE: 2.10
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: = 0.567 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/11/2010
INITIALS: SC ? WC ? BH

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=0.053 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.89 sec
FLOWRATE #2: 28.92
FLOWRATE #3: 29.12 29.00
FLOWRATE #4: 28.77
FLOWRATE #5: 28.88
AVERAGE T100: 28.89

DRY T100

#1: 27.57
#2: 27.67
#3: 27.67
DRY AVG: 27.64

WET T100

#1: 28.19
#2: 28.21
#3: 28.37
WET AVG: 28.26

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 32.09 sec.

RECORD: ROOM TEMP (C) 24.9°C ROOM REL. HUMID. (%) 61%

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 2.24%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU640
GMT DATE: 9/11/2010
GMT LAUNCH TIME: 18:59:16

LOCAL DATE: 9/11/2010
LOCAL TIME: 13:59:16

BALLOON TYPE 1000 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 422200607
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Thunderstorm started @ launch.

~ BURST PRESSURE (mb): NO DATA

REMARKS: Bad Vaisala. no data after 10 mins.

weighoff = _____ grams

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