

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

FLT # HU840

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/9/2013
INITIALS: WRC
PUMP NUMBER: 2224472

PUMP CURRENT: 98.55
PUMP PRESSURE: 11
PUMP VACUUM: 22

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: = 0.321 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): 11/23/2013
INITIALS: NLP

Cathode solution date written on bottle: 239
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1 = 0.058 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 27.93 sec
FLOWRATE #2: 27.81
FLOWRATE #3: 28.02
FLOWRATE #4: 27.99
FLOWRATE #5: 28.02
AVERAGE T100: 27.96

DRY T100

#1: 29.09
#2: 29.05
#3: 29.17
DRY AVG: 29.10

WET T100

#1: 29.55
#2: 29.42
#3: 29.55
WET AVG: 29.51

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 34.98 sec.

RECORD: ROOM TEMP (C) 16.3 ROOM REL. HUMID. (%) 37

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.41 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU840
GMT DATE: 11/23/2013
GMT LAUNCH TIME: 19:00

LOCAL DATE: 11/23/2013
LOCAL TIME: 13:00

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

O₃ BACKGROUND (μ amps from F9 key): 0.058

VAISALA NUMBER (5 digit): 20980
SURFACE PRESSURE: 997.7
SURFACE TEMP. (C): 21.9
SURFACE HUMIDITY: 59.8

SKY CONDITIONS: partly sunny
North wind 15 to 20 mph

- BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = 1700 grams

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