

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

FLT# HU836

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/12/2013
INITIALS: NLP
PUMP NUMBER: 2224598

PUMP CURRENT: 91.67
PUMP PRESSURE: >10
PUMP VACUUM: 21.5

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: = 0.602 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): 10/26/2013
INITIALS: NLP

Cathode solution date written on bottle: 239
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 = 0.042 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.53 sec
FLOWRATE #2: 29.33
FLOWRATE #3: 29.47
FLOWRATE #4: 29.40
FLOWRATE #5: 29.57
AVERAGE T100: 29.44

DRY T100
28.95 #1: 29.3
28.93 #2: 29.3
28.89 #3: 29.42
DRY AVG: 29.3
28.92
29.31 WET T100
29.31 #1: 29.5
29.33 #2: 29.5
29.33 #3: 29.5
WET AVG: 29.5

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 30.69 sec.

RECORD: ROOM TEMP (C) 17.1 ROOM REL. HUMID. (%) 24

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.38 %

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DAY OF FLIGHT @ THE LAUNCH SITE. NLP

FLIGHT NUMBER: HU836
GMT DATE: 10/26/2013
GMT LAUNCH TIME: 18:10

LOCAL DATE: 10/26/2013
LOCAL TIME: 13:10

BALLOON TYPE 800 Gram: Kaymont Scientific Sales (v one) Hwoyee

O₃ BACKGROUND (μ amps from F9 key): 0.042

VAISALA NUMBER (9 digit): 20978
SURFACE PRESSURE: 999.3
SURFACE TEMP. (C): 15.8
SURFACE HUMIDITY: 34.2

SKY CONDITIONS: _____
~ BURST PRESSURE (mb): 29.96

REMARKS: _____

weighoff = 1700 grams

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