

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

FLT # HU 848

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 1/9/2014
INITIALS: WTC
PUMP NUMBER: 2225173

PUMP CURRENT: 110.80
PUMP PRESSURE: 11 in. Hg
PUMP VACUUM: 0.22 in. Hg

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: = 0.501 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): 01/18/2014
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 = 0.055 μ amps

RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 30.62 sec

FLOWRATE #2: 30.72

FLOWRATE #3: 30.93

FLOWRATE #4: 30.73

FLOWRATE #5: 30.70

AVERAGE T100: 30.74

DRY T100

#1: 28.94

#2: 28.97

#3: 28.97

DRY AVG: 28.96

WET T100

#1: 29.32

#2: 29.23

#3: 29.28

WET AVG: 29.28

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 34.70 sec.

RECORD: ROOM TEMP (C) 17.1 ROOM REL. HUMID. (%) 16

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.15%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 848

GMT DATE: 01/18/2014

GMT LAUNCH TIME: 19:00

LOCAL DATE: 01/18/2014

LOCAL TIME: 13:00

BALLOON TYPE 1200 Gram:

Kaymont

Scientific Sales

(None) Hwoyee

O₃ BACKGROUND (μ amps from F9 key): 0.055

VAISALA NUMBER (9 digit): 21373

SURFACE PRESSURE: 992.5

SURFACE TEMP. (C): 6.5

SURFACE HUMIDITY: 22.4

SKY CONDITIONS: Partly sunny with a high near 47 South wind around 15 mph.

* BURST PRESSURE (mb): 35.28

REMARKS:

weighoff = 1700 grams

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