

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

FLT # HU 842

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/30/2013
INITIALS: NLP
PUMP NUMBER: 2225192

PUMP CURRENT: 98.11
PUMP PRESSURE: >10
PUMP VACUUM: 12

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: = 0.543 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/07/2013
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=0.056 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.67 sec
FLOWRATE #2: 28.60
FLOWRATE #3: 28.77
FLOWRATE #4: 28.76
FLOWRATE #5: 28.67
AVERAGE T100: 28.69

DRY T100

#1: 29.10
#2: 29.21
#3: 29.27
DRY AVG: 29.19

WET T100

#1: 29.63
#2: 29.67
#3: 29.64

WET AVG: 29.65

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 35.41 sec.

RECORD: ROOM TEMP (C) 18.3 ROOM REL. HUMID. (%) 22

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.58%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 842

GMT DATE: 12/07/2013 LOCAL DATE: 12/07/2013

GMT LAUNCH TIME: 19:00 LOCAL TIME: 13:00

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (None) Hwoyee

O₃ BACKGROUND (μ amps from E9 key): 0.056

VAISALA NUMBER (⁵ digit): 21106
SURFACE PRESSURE: 1003.5
SURFACE TEMP. (C): 1.0
SURFACE HUMIDITY: 84.8

SKY CONDITIONS: Mostly cloudy w/ a high near 42, North wind around 15 mph

- BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = 1700 grams

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