

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 07/25/2009
INITIALS: BH
PUMP NUMBER: 228396

PUMP CURRENT: 84.64
PUMP PRESSURE: 210
PUMP VACUUM: 22

30 MINUTES HI O₃ (v)
5 MINUTE NO O₃ (v)

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)
WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)
ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)
RUN 20 MINUTES ON NO O₃: (v) Store inside Styrofoam flight box: (v)
Record the current after the 20 MINUTES ON NO O₃: = 0.430 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/8/09
INITIALS: B

Cathode solution date written on bottle: 4/17/09
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=0.022 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.78 sec
FLOWRATE #2: 28.72
FLOWRATE #3: 28.71
FLOWRATE #4: 28.79
FLOWRATE #5: 28.99
AVERAGE T100: 28.80

DRY T100
#1: 28.07
#2: 28.17
#3: 28.60
DRY AVG: 28.01
WET T100
#1: 28.37
#2: 28.52
#3: 28.38
WET AVG: 28.42

RESPONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 35.59 sec.
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 53
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.46 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu581
GMT DATE: 8/8/09
GMT LAUNCH TIME: 1759

LOCAL DATE: 8/8/09
LOCAL TIME: 1259

BALLOON TYPE 1208 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μamps from F9 key): 0.021

VAISALA NUMBER (9 digit): 721401311
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____
BURST PRESSURE (mb): 7.57
33,30 km

REMARKS: _____

weighoff = _____ grams

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

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

FLT# HU 580

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 07/18/09
INITIALS: SL
PUMP NUMBER: 238391

PUMP CURRENT: 84.62
PUMP PRESSURE: 10
PUMP VACUUM: 20

30 MINUTES HI O₃
5 MINUTE NO O₃

ADD 3.0 CC CATHODE SOLUTION:
WAIT 2 MINUTES:
ADD 1.5 CC ANODE SOLUTION:
RUN 20 MINUTES ON NO O₃:
Record the current after the 20 MINUTES ON NO O₃: = 0.447 μ amps

Short the cell leads:
Add about 2.5 CC more Cathode Solution (2Z)
Place Instrument inside plastic bag:
Store inside Styrofoam flight box:

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 08/01/09
INITIALS: SL

Cathode solution date written on bottle: 4/17/09
CHANGE CATHODE SOLUTION (3cc):
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES:
RECORD THE NO O₃ BACKGRND#1: BG1 = 0.006 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes:

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.46 sec
FLOWRATE #2: 28.67
FLOWRATE #3: 28.63
FLOWRATE #4: 28.59
FLOWRATE #5: 28.57

AVERAGE T100: 28.62

DRY T100

#1: 28.13
#2: 28.16
#3: 28.20
DRY AVG: 28.16

WET T100

#1: 28.57
#2: 28.55
#3: 28.59
WET AVG: 28.57

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 26.01 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 58

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.45%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 580
GMT DATE: 08/01/09
GMT LAUNCH TIME: 18:29

LOCAL DATE: 08/01/09
LOCAL TIME: 13:29

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (none)

O₃ BACKGROUND (μ amps from F9 key): 0.006

VAISALA NUMBER (9 digit): 635202800
SURFACE PRESSURE: /
SURFACE TEMP. (C): /
SURFACE HUMIDITY: /

SKY CONDITIONS: sunny, partly cloudy

~ BURST PRESSURE (mb): 7.333 at 33.65 km

REMARKS: _____

weighoff = _____ grams

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

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FLT # HU579

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/11/09
INITIALS: B
PUMP NUMBER: 228230

PUMP CURRENT: 77.40
PUMP PRESSURE: >10
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)

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: = 0.462 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 07/25/09

INITIALS: BL

Cathode solution date written on bottle: 4/17/09

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 = 0.00 μ amps

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

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.98 sec

FLOWRATE #2: 29.23

FLOWRATE #3: 29.08

FLOWRATE #4: 28.99

FLOWRATE #5: 29.23

AVERAGE T100: 29.10

DRY T100

#1: 28.04

#2: 28.26

#3: 28.04

DRY AVG: 28.11

WET T100

#1: 28.51

#2: 28.55

#3: 28.53

WET AVG: 28.53

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.67 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 49

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.49 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU579

GMT DATE: 07/25/2009

GMT LAUNCH TIME: 17:55

LOCAL DATE: 07/25/2009

LOCAL TIME: 12:55

BALLOON TYPE 200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 223105105

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: Windy & cloudy

~ BURST PRESSURE (mb): 32.86 km
8.13 mb

REMARKS: _____

weighoff = _____ grams

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