

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

FLT# Hu 610

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2/13/10
INITIALS: SL
PUMP NUMBER: 278692

PUMP CURRENT: 101
PUMP PRESSURE: 10
PUMP VACUUM: 20

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: = 0.426 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 2/27/10
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= 0.024 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.59 sec
FLOWRATE #2: 29.61
FLOWRATE #3: 29.61
FLOWRATE #4: 29.64
FLOWRATE #5: 29.62

DRY T100
#1: 27.49
#2: 27.69
#3: 27.57
DRY AVG: 27.58
WET T100
#1: 28.15
#2: 28.19
#3: 28.13
WET AVG: 28.16

AVERAGE T100: 29.62

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 25.61 sec.

*T100 Flowrate correction: 2.1 %

RECORD: ROOM TEMP (C) 17 ROOM REL. HUMID. (%) 11

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu 610
GMT DATE: 2/27/10
GMT LAUNCH TIME: 1802

LOCAL DATE: 2/27/10
LOCAL TIME: 1302

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

O₃ BACKGROUND (μ amps from F9 key): 0.024

VAISALA NUMBER (9 digit): 148752548 SKY CONDITIONS: _____

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____ ~ BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = _____ grams

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