

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

FLT# HU631

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 07/01/10 PUMP CURRENT: 94.14 30 MINUTES HI O₃ (v)
INITIALS: SL PUMP PRESSURE: 710 5 MINUTE NO O₃ (v)
PUMP NUMBER: 279270-V20 PUMP VACUUM: 22

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: = 0.470 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 07/10/2010
INITIALS: BH
Cathode solution date written on bottle: 10/14/2009
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 = 0.012 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: 28.93 (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.86 sec
FLOWRATE #2: 28.99
FLOWRATE #3: 28.88
FLOWRATE #4: 28.98
FLOWRATE #5: 28.93
AVERAGE T100: 28.93

DRY T100

#1: 27.73
#2: 27.78
#3: 27.82
DRY AVG: 27.78

WET T100

#1: 28.27
#2: 28.28
#3: 28.27
WET AVG: 28.27

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 79.26 sec.

RECORD: ROOM TEMP (C) 23.9 ROOM REL. HUMID. (%) 47

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 1.76 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU631
GMT DATE: 07/10/2010 LOCAL DATE: 07/10/2010
GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 22211740 SKY CONDITIONS: _____
SURFACE PRESSURE: 300855940 _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____ ~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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