

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

FLT # _____

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/3/2012 PUMP CURRENT: 29.43 30 MINUTES HI O₃ (h)
 INITIALS: WTC PUMP PRESSURE: 511 5 MINUTE NO O₃ (h)
 PUMP NUMBER: 2210063 PUMP VACUUM: 23

ADD 3.0 CC CATHODE SOLUTION: (h) Short the cell leads: (h)
 WAIT 2 MINUTES: (h) Add about 2.5 CC more Cathode Solution (2Z) (h)
 ADD 1.5 CC ANODE SOLUTION: (h) Place Instrument inside plastic bag: (h)
 RUN 20 MINUTES ON NO O₃ (h) Store inside Styrofoam flight box: (h)
 Record the current after the 20 MINUTES ON NO O₃: = 0.0699 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 05/12
 INITIALS: BH
 Cathode solution date written on bottle: 09/05/2011
 CHANGE CATHODE SOLUTION (3cc): (h) (v)
 CHANGE ANODE SOLUTION (1.5cc): (h) (v) (Yes/No)
 RUN ON NO O₃ FOR 5 MINUTES: (h) (v) 0.083 μ amps
 RECORD THE NO O₃ BACKGRND#1: BG1= 0.083 μ amps
 RUN ON 5 microamps of O₃ for 10 Minutes: (h) (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.34 sec
 FLOWRATE #2: 29.48
 FLOWRATE #3: 29.55
 FLOWRATE #4: 29.42
 FLOWRATE #5: 29.50
AVERAGE T100: 29.46

DRY T100

#1: 29.17
 #2: 29.61
 #3: 30.02
DRY AVG: 29.60

WET T100

#1: 30.63
 #2: 30.63
 #3: 30.84
WET AVG: 30.7

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 32.22 sec.
RECORD: ROOM TEMP (C) 24.3 ROOM REL. HUMID. (%) 37
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 3.77%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____
 GMT DATE _____ LOCAL DATE: _____
 GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): 229113445

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

REMARKS: _____

weighoff = _____ grams

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