

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

FLT # HU730

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/31
 INITIALS: BH
 PUMP NUMBER: 2720680

PUMP CURRENT: 87.76
 PUMP PRESSURE: 210
 PUMP VACUUM: 21

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: = 0.640 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/7/2012
 INITIALS: BH

Cathode solution date written on bottle: 9/5/2011
 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= 0.828 μ amps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
 FLOWRATE #1: 28.66 sec
 FLOWRATE #2: 28.83
 FLOWRATE #3: 28.85
 FLOWRATE #4: 28.85
 FLOWRATE #5: 28.87
 AVERAGE T100: 28.80

DRY T100
 #1: 28.87
 #2: 28.83
 #3: 28.85
 DRY AVG: 28.85

WET T100
 #1: 29.25
 #2: 29.23
 #3: 29.22
 WET AVG: 29.23

*T100 Flowrate correction: 1.02%
1.106

RESONSE TIME

SWITCH TO NO O₃ AIR.
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 33.13 sec.
 RECORD: ROOM TEMP (C) 20.2 ROOM REL. HUMID. (%) 41
 RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU730
 GMT DATE: _____ LOCAL DATE: 4/7/2012
 GMT LAUNCH TIME: _____ LOCAL TIME: _____

BALLOON TYPE 1209 Gram : Kaymont Scientific Sales _____ (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 639151011 SKY CONDITIONS: _____
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY : _____ ~ BURST PRESSURE (mb) : _____

REMARKS: _____

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