

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

FLT# HU601

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/21/09
 INITIALS: BH
 PUMP NUMBER: 278533

PUMP CURRENT: 87.10
 PUMP PRESSURE: 710
 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: = 0.545 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/26/09
 INITIALS: BH
 Cathode solution date written on bottle: 04/17/09
 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: 29.02 sec
 FLOWRATE #2: 29.03
 FLOWRATE #3: 28.97
 FLOWRATE #4: 29.00
 FLOWRATE #5: 29.03

DRY T100
 #1: 27.63
 #2: 27.74
 #3: 27.59
 DRY AVG: 27.65

WET T100
 #1: 28.26
 #2: 28.19
 #3: 28.16
 WET AVG: 28.20

AVERAGE T100: 29.01

*T100 Flowrate correction: 1.99%

RESONSE TIME

SWITCH TO NO O₃ AIR.
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 26.73 sec.
 RECORD: ROOM TEMP (C) 17 ROOM REL. HUMID. (%) 17
 RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 601
 GMT DATE: 12/26/09 LOCAL DATE: 12/26/09
 GMT LAUNCH TIME: 19:06:52 LOCAL TIME: 13:04:52

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 309010453
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY : _____

SKY CONDITIONS: windy
 ~ BURST PRESSURE (mb) : _____

REMARKS: _____

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