

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

FLT # H4688

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/21/2011 PUMP CURRENT: 78.83 30 MINUTES HI O₃: (y)
 INITIALS: SKH PUMP PRESSURE: >11 5 MINUTE NO O₃: (y)
 PUMP NUMBER: 229410-V20 PUMP VACUUM: >22

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

Record the current after the 20 MINUTES ON NO O₃: = 506 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 07/02 INITIALS: BH CATHODE SOLUTION DATE WRITTEN ON BOTTLE: 0323

CHANGE CATHODE SOLUTION (3cc): (y) T100 FLOWRATE TIMES:
 CHANGE ANODE SOLUTION (1.5cc): (Yes/No) FLOWRATE #1: 29.64 sec
 RUN ON NO O₃ FOR 5 MINUTES: (y) FLOWRATE #2: 29.77
 RECORD THE NO O₃ BACKGRND#1: BG1= 0.017 μ amps FLOWRATE #3: 29.62
 RUN ON 5 microamps of O₃ for 10 Minutes: (y) FLOWRATE #4: 29.70
 FLOWRATE #5: 29.82
 AVERAGE T100: 29.73

DRY T100
 #1: 27.68
 #2: 27.68
 #3: 27.64
 DRY AVG: 27.67

WET T100
 #1: 28.22
 #2: 28.13
 #3: 28.17
 WET AVG: 28.17

RESPONSE TIME

SWITCH TO NO O₃ AIR.
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 29.14 sec. *T100 Flowrate correction: 1.8 %
 RECORD: ROOM TEMP (C) 23.8C ROOM REL. HUMID. (%) 53
 RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4688
 GMT DATE: _____ LOCAL DATE: _____
 GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 118221353 SKY CONDITIONS: _____
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY: _____ ~ BURST PRESSURE (mb): _____

REMARKS: _____

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