

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

FLT # HU535

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 09/20/08
 INITIALS: BH
 PUMP NUMBER: 227802

PUMP CURRENT: 92.64
 PUMP PRESSURE: >10
 PUMP VACUUM: 24

30 MINUTES HI O₃ (v)
 5 MINUTE NO O₃ (v)

ADD 3.0 CC CATHODE SOLUTION: (v)
 WAIT 2 MINUTES: (v)
 ADD 1.5 CC ANODE SOLUTION: (v)
 RUN 20 MINUTES ON NO O₃: (v)
 Record the current after the 20 MINUTES ON NO O₃: = 0.510 μ amps

Short the cell leads: (v)
 Add about 2.5 CC more Cathode Solution (2Z): (v)
 Place Instrument inside plastic bag: (v)
 Store inside Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/04/08
 INITIALS: BH
 Cathode solution date written on bottle: 07/16/08
 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=0.017 μ amps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
 FLOWRATE #1: 28.29 sec
 FLOWRATE #2: 28.17
 FLOWRATE #3: 28.09
 FLOWRATE #4: 28.23
 FLOWRATE #5: 28.23
AVERAGE T100: 28.20

DRY T100

#1: 28.87
 #2: 28.79
 #3: 28.82
DRY AVG: 28.72

WET T100

#1: 29.09
 #2: 29.20
 #3: 28.89
WET AVG: 29.03

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 25.86 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 35

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 11 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU535
 GMT DATE: 18:01 10/04
 GMT LAUNCH TIME: 18:01

LOCAL DATE: 12:01 10/04
 LOCAL TIME: 13:01

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 320602713
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY : _____

SKY CONDITIONS: good weather, no cloud, no or almost no wind
 - BURST PRESSURE (mb): 9.575 / 31.41 km

REMARKS: _____

weighoff = _____ grams

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