

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

FLT # HU597

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/14/09
 INITIALS: B
 PUMP NUMBER: 228539

PUMP CURRENT: 203.25
 PUMP PRESSURE: >11
 PUMP VACUUM: 21

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: = 84.85 μamps

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): 11/28/09
 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=0.029 μamps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
 FLOWRATE #1: 27.99 sec
 FLOWRATE #2: 28.04
 FLOWRATE #3: 27.80
 FLOWRATE #4: 28.00
 FLOWRATE #5: 27.93
AVERAGE T100: 27.95

DRY T100
 #1: 27.92
 #2: 28.00
 #3: 27.95
 DRY AVG: 27.96
WET T100
 #1: 28.43
 #2: 28.33
 #3: 28.35
 WET AVG: 28.37

RESONSE TIME

SWITCH TO NO O₃ AIR.
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 21.70 sec.
 RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 72
 RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.47%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU597
 GMT DATE: 11/28/2009 LOCAL DATE: 11/28/2009
 GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μamps from F9 key): 318126967
 VAISALA NUMBER (9 digit): 309012248
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY: _____

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

REMARKS: good play, no cloud

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