

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

FLT # HU540

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/25/08
 INITIALS: BH/RJ
 PUMP NUMBER: 227545

PUMP CURRENT: 106.74
 PUMP PRESSURE: 10
 PUMP VACUUM: 22

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: = 0.401 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): 11/8/08
 INITIALS: YR, SL
 Cathode solution date written on bottle: 7/16/08

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**= 0.012 μamps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
 FLOWRATE #1: 29.40 sec
 FLOWRATE #2: 29.32
 FLOWRATE #3: 29.35
 FLOWRATE #4: 29.31
 FLOWRATE #5: 29.28
AVERAGE T100: 29.33

DRY T100
 #1: 28.62
 #2: 28.67
 #3: 28.69
 DRY AVG: 28.66

WET T100
 #1: 28.92
 #2: 29.00
 #3: 29.03
 WET AVG: 28.93

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 33.99 sec.
RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 26
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 0.94 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU540
 GMT DATE: 11/8/08
 GMT LAUNCH TIME: 19:32

LOCAL DATE: 11/8/08
 LOCAL TIME: 13:32

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μamps from F9 key): 0.012

VAISALA NUMBER (9 digit): 320602902
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY: _____

SKY CONDITIONS: clear, windy E
 ~ BURST PRESSURE (mb): 8.480
31.72 km

REMARKS: Launched late because of lidar overlap

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