

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

FLT # HU586

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/29/09
 INITIALS: SL
 PUMP NUMBER: 228447

PUMP CURRENT: 91
 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: = 0.241 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): 09/12/2009
 INITIALS: SL
 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 = 0.017 μamps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
 FLOWRATE #1: 29.32 sec
 FLOWRATE #2: 29.41
 FLOWRATE #3: 29.49
 FLOWRATE #4: 29.32
 FLOWRATE #5: 29.26
AVERAGE T100: 29.37

DRY T100

#1: 28.25
 #2: 28.09
 #3: 28.03
 DRY AVG: 28.12

WET T100

#1: 28.53
 #2: 28.63
 #3: 28.50
 WET AVG: 28.53

RESONSE TIME

SWITCH TO NO O₃ AIR.
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 27.18 sec.
 RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 47
 RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.46 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU586
 GMT DATE: 09/12/2009
 GMT LAUNCH TIME: 17:49:06

LOCAL DATE: 09/12/2009
 LOCAL TIME: 12:49

BALLOON TYPE _____ Gram: _____ Kaymont _____ Scientific Sales _____ (none)

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 723201009
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY: _____

SKY CONDITIONS: _____
 BURST PRESSURE (mb): 329.89
852

REMARKS: _____

weighoff = _____ grams

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