

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

FLT # HU593

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/17/09
 INITIALS: WC
 PUMP NUMBER: 228227

PUMP CURRENT: 90.03
 PUMP PRESSURE: 11
 PUMP VACUUM: 22

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

ADD 3.0 CC CATHODE SOLUTION: (N)
 WAIT 2 MINUTES: (N)
 ADD 1.5 CC ANODE SOLUTION: (N)
 RUN 20 MINUTES ON NO O₃: (N)
 Record the current after the 20 MINUTES ON NO O₃: = 0.496 μ amps

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

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/31
 INITIALS: 01-1

Cathode solution date written on bottle: (N)
 CHANGE CATHODE SOLUTION (3cc): (N)
 CHANGE ANODE SOLUTION (1.5cc): (N) (Yes/No)
 RUN ON NO O₃ FOR 5 MINUTES: (N)
 RECORD THE NO O₃ BACKGRND#1: BG1 = 0.02 μ amps
 RUN ON 5 microamps of O₃ for 10 Minutes: (N)

T100 FLOWRATE TIMES:
 FLOWRATE #1: 28.42 sec
 FLOWRATE #2: 28.45
 FLOWRATE #3: 28.38
 FLOWRATE #4: 28.50
 FLOWRATE #5: 28.36
AVERAGE T100: 28.42

DRY T100
 #1: 27.94
 #2: 27.90
 #3: 28.03
DRY AVG: 27.96

WET T100
 #1: 28.21
 #2: 28.19
 #3: 28.34
WET AVG: 28.25

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.58 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 38
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.04%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU593
 GMT DATE: 10/31
 GMT LAUNCH TIME: 08:36

LOCAL DATE: 13/10/31
 LOCAL TIME: 13:36

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

O₃ BACKGROUND (μ amps from F9 key): 30901024.5

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

SKY CONDITIONS: _____
 ~ BURST PRESSURE (mb) : 34.41/5.72

REMARKS: _____

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