

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

FLT # HU546

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/06/08 PUMP CURRENT: 89.28 30 MINUTES HI O₃ (v)
INITIALS: YR/BH PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 228044 PUMP VACUUM: 20

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)
WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)
ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)
RUN 20 MINUTES ON NO O₃ (v) Store inside Styrofoam flight box: (v)
Record the current after the 20 MINUTES ON NO O₃: = 0.312 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/20
INITIALS: YR/SL
Cathode solution date written on bottle: _____
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 = 0.021 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: _____ (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.88 sec
FLOWRATE #2: 29.77
FLOWRATE #3: 29.78
FLOWRATE #4: 29.76
FLOWRATE #5: 29.87
AVERAGE T100: 29.81

DRY T100

#1: 28.50
#2: 28.56
#3: 28.47
DRY AVG: 28.51

WET T100

#1: 28.91
#2: 28.91
#3: 28.96
WET AVG: 28.92

*T100 Flowrate correction: 1.43%

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 35.37 sec.
RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 49
RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU546
GMT DATE: 12/20/08 LOCAL DATE: 12/20/08
GMT LAUNCH TIME: 19:19:02 LOCAL TIME: 13:19:02

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 517101513
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: overcast, rainy
~ BURST PRESSURE (mb) : 14.195
28.32 km

REMARKS: Rain storm just passed through right before launch

weighoff = _____ grams

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