

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

FLT # HV549

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/27/08
INITIALS: YR/SK
PUMP NUMBER: 228134

PUMP CURRENT: 89.30
PUMP PRESSURE: 10
PUMP VACUUM: 23

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: = 0.680 μ amps

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): 1/10/09
INITIALS: YR/BH

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: 28.85 sec
FLOWRATE #2: 29
FLOWRATE #3: 28.92
FLOWRATE #4: 28.84
FLOWRATE #5: 28.89

DRY T100

#1: 28.52
#2: 28.49
#3: 28.33
DRY AVG: 28.41

WET T100

#1: 28.68
#2: 28.83
#3: 28.72
WET AVG: 28.74

AVERAGE T100: 28.9

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.6 sec.

RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 41

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.17 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV549
GMT DATE: 1/10/09
GMT LAUNCH TIME: 19:02:47

LOCAL DATE: 1/10/09
LOCAL TIME: 13:02:47

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 715904001
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: very cloudy, windy

~ BURST PRESSURE (mb): 6.603
33.62 Km.

REMARKS: _____

weighoff = _____ grams

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