

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

FLT # HV543

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/24/08 PUMP CURRENT: 86.02 30 MINUTES HI O₃ (v)
INITIALS: SL PUMP PRESSURE: 10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 227414 PUMP VACUUM: 20.5

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: = 0.288 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 11/29
INITIALS: YR/SK
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=0.03 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.18 sec
FLOWRATE #2: 29.17
FLOWRATE #3: 29.19
FLOWRATE #4: 29.19
FLOWRATE #5: 29.21
AVERAGE T100: 29.18

DRY T100

#1: 28.33
#2: 28.35
#3: 28.40
DRY AVG: 28.36

WET T100

#1: 28.81
#2: 28.73
#3: 28.70
WET AVG: 28.74

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 30.65 sec.

RECORD: ROOM TEMP (C) 19° ROOM REL. HUMID. (%) 35

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.33%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV543
GMT DATE: 11/29/08 LOCAL DATE: 11/29/08
GMT LAUNCH TIME: 19:26 LOCAL TIME: 13:26

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 188322944

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb): 3.703
37.01 KM

REMARKS: _____

weighoff = _____ grams

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