

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

FLT # HW503

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/26/08
INITIALS: SL
PUMP NUMBER: 277421

PUMP CURRENT: 93.16
PUMP PRESSURE: >10
PUMP VACUUM: 19

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)

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)

Record the current after the 20 MINUTES ON NO O₃: = 0.245 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/5/08
INITIALS: SK

Cathode solution date written on bottle: 8-24-07
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=0.020 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.88 sec
FLOWRATE #2: 28.93
FLOWRATE #3: 28.89
FLOWRATE #4: 28.96
FLOWRATE #5: 28.89

DRY T100

#1: 28.19
#2: 28.25
#3: 28.24
DRY AVG: 28.23

WET T100

#1: 28.85
#2: 28.82
#3: 28.77
WET AVG: 28.81

AVERAGE T100: 28.91

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 25.73 sec.

RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 37

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 2.05%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HW503

GMT DATE: 4/5/08

LOCAL DATE: 4/5/08

GMT LAUNCH TIME: 19:10:44

LOCAL TIME: 13:10:44

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 189210548

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy

rainy

Surface wind: N

~ BURST PRESSURE (mb) : 33.2km

REMARKS: _____

weighoff = _____ grams

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