

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

HU
FLT # 530

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/23/08
INITIALS: BH/PB
PUMP NUMBER: 27706

PUMP CURRENT: 92.48
PUMP PRESSURE: >10
PUMP VACUUM: 24

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: = 0.560 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): 8/30/08
INITIALS: SL/BH

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=0.062 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 30.17 sec
FLOWRATE #2: 29.89
FLOWRATE #3: 29.97
FLOWRATE #4: 29.92
FLOWRATE #5: 29.90

AVERAGE T100: 29.97

DRY T100

#1: 28.60
#2: 28.81
#3: 28.61

DRY AVG: 28.67

WET T100

#1: 29.03
#2: 28.96
#3: 29.02

WET AVG: 29.00

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 34.29 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 58

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.1%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU530

GMT DATE: 08/30/08

LOCAL DATE: 08/30/08

GMT LAUNCH TIME: 18:10

LOCAL TIME: 13:10

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (None)

O₃ BACKGROUND (μ amps from F9 key): 0.062

VAISALA NUMBER (9 digit): 516102006

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: no wind, good launch
use the replaceable sonde.

~ BURST PRESSURE (mb): 9.633/31.724

REMARKS: _____

weighoff = _____ grams

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