

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

FLT # Hu514

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/7/08
INITIALS: SK
PUMP NUMBER: 227535

PUMP CURRENT: 99
PUMP PRESSURE: 10
PUMP VACUUM: 20

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: = 0.468 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/21/08
INITIALS: B

Cathode solution date written on bottle: 8/14/08
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=0.048 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.30 sec
FLOWRATE #2: 29.28
FLOWRATE #3: 29.36
FLOWRATE #4: 29.31
FLOWRATE #5: 29.30

AVERAGE T100: 29.31

DRY T100

#1: 28.55
#2: 28.47
#3: 28.49
DRY AVG: 28.50

WET T100

#1: 28.73
#2: 28.88
#3: 29.03
WET AVG: 28.88

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 28.02 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 56

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.33 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hu 514

GMT DATE: 6/21/08

GMT LAUNCH TIME: 1802

LOCAL DATE: 6/21/08

LOCAL TIME: 1302

BALLOON TYPE 1400 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): 0.048

VAISALA NUMBER (9 digit): 219110451

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: Mostly Cloudy

~ BURST PRESSURE (mb): 11.203 mb
30.60 km

REMARKS: _____

weighoff = _____ grams

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