

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

FLT # H4516

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/2/08
INITIALS: B
PUMP NUMBER: 2245.30

PUMP CURRENT: 89.03
PUMP PRESSURE: 211
PUMP VACUUM: 22

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: = 0.226 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/5/08
INITIALS: SK

Cathode solution date written on bottle: 8-20-07
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=0.037 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.72 sec
FLOWRATE #2: 28.69
FLOWRATE #3: 28.76
FLOWRATE #4: 28.69
FLOWRATE #5: 28.71

AVERAGE T100: 28.71

DRY T100

#1: _____
#2: _____
#3: _____

DRY AVG: _____

WET T100

#1: _____
#2: _____
#3: _____

WET AVG: _____

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.65 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 70

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 0.1 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4516
GMT DATE: 7/5/08
GMT LAUNCH TIME: 17:35:55

LOCAL DATE: 7/5/08
LOCAL TIME: 12:35:55

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 119203313
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy
Southerly wind

~ BURST PRESSURE (mb): ~33km

REMARKS: _____

weighoff = _____ grams

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