

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

FLT # 144736

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/14/2012
INITIALS: SKH
PUMP NUMBER: 221007A

PUMP CURRENT: 89.09
PUMP PRESSURE: 711
PUMP VACUUM: 522

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: = 643 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): 05/19
INITIALS: SKH

Cathode solution date written on bottle: 09/08/2011
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 = 0.09 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.72 sec
FLOWRATE #2: 29.65
FLOWRATE #3: 29.63
FLOWRATE #4: 29.23
FLOWRATE #5: 29.68
AVERAGE T100: 29.58

DRY T100
#1: 30.11
#2: 29.95
#3: 30.11
DRY AVG: 30.06
WET T100
#1: 30.61
#2: 30.85
#3: 30.78
WET AVG: 30.74

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 4084 sec.
RECORD: ROOM TEMP (C) 23.9 ROOM REL. HUMID. (%) 41
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 2.30 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 2210072
GMT DATE: _____ LOCAL DATE: _____
GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 229113441
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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