

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

FLT # _____

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 2/21/2011 PUMP CURRENT: 86.64 30 MINUTES HI O₃: ✓ (v)
INITIALS: SMK PUMP PRESSURE: 211 5 MINUTE NO O₃: ✓ (v)
PUMP NUMBER: 22220-V2D PUMP VACUUM: 222

ADD 3.0 CC CATHODE SOLUTION: ✓ (v) Short the cell leads: ✓ (v)
WAIT 2 MINUTES: ✓ (v) Add about 2.5 CC more Cathode Solution (2Z): ✓ (v)
ADD 1.5 CC ANODE SOLUTION: ✓ (v) Place Instrument inside plastic bag: ✓ (v)
RUN 20 MINUTES ON NO O₃: ✓ (v) Store inside Styrofoam flight box: ✓ (v)

Record the current after the 20 MINUTES ON NO O₃: = .641 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 06/04/2011 INITIALS: BH

Cathode solution date written on bottle: 03/02/2010

CHANGE CATHODE SOLUTION (3cc): ✓ (v)
CHANGE ANODE SOLUTION (1.5cc): ✓ (v) (Yes/No).

RUN ON NO O₃ FOR 5 MINUTES: ✓ (v)

RECORD THE NO O₃ BACKGRND#1: BG1 = 0.011 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: ✓ (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.24 sec
FLOWRATE #2: 28.99
FLOWRATE #3: 29.14
FLOWRATE #4: 29.03
FLOWRATE #5: 29.05
AVERAGE T100: 27.08

DRY T100
#1: 27.89
#2: 27.48
#3: 27.66
DRY AVG: 27.58

WET T100
#1: 28.38
#2: 28.23
#3: 28.19
WET AVG: 28.27

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 30.79 sec.
RECORD: ROOM TEMP (C) 24.4 ROOM REL. HUMID. (%) 54
RECORD: 5 - T100 FLOWRATE TIMES: *T100 Flowrate correction. 2.5%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 14684

GMT DATE: _____ LOCAL DATE: _____
GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 1018225345 SKY CONDITIONS: _____
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____ ~ BURST PRESSURE (mb): _____

REMARKS: _____

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