

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): 6/12/2012 PUMP CURRENT: 111.27 30 MINUTES HI O₃ (v)
INITIALS: WTC PUMP PRESSURE: 211 5 MINUTE NO O₃ (v)
PUMP NUMBER: 2210211 PUMP VACUUM: 22

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: = 0.347 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/30/2012 **DRY T100**
INITIALS: WTC #1: _____
Cathode solution date written on bottle: Sept 8, 2011 #2: _____
CHANGE CATHODE SOLUTION (3cc): (v) #3: _____
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No) DRY AVG: _____
RUN ON NO O₃ FOR 5 MINUTES: (v) 0.098 μ amps **WET T100**
RECORD THE NO O₃ BACKGRND#1: BG1= 0.098 μ amps #1: _____
RUN ON 5 microamps of O₃ for 10 Minutes: (v) **AVERAGE T100: 28.58** #2: _____
#3: _____
WET AVG: _____

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 41.1 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 46

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.85%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____

GMT DATE: 6/30/2012 LOCAL DATE: 6/30/2012

GMT LAUNCH TIME: 18:20:28 LOCAL TIME: 13:10:28

BALLOON TYPE 1000 Gram: Hywoec Kaymont Scientific Sales (none)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 106165114

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: clear

~ BURST PRESSURE (mb): _____

Alt: 35 km

REMARKS: _____

weighoff = _____ grams

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