

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

FLT # HU740

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 6/6/2012 PUMP CURRENT: 83.76 30 MINUTES HI O₃
INITIALS: DTC PUMP PRESSURE: 21 5 MINUTE NO O₃
PUMP NUMBER: 2210075 PUMP VACUUM: 22

ADD 3.0 CC CATHODE SOLUTION: Short the cell leads:
WAIT 2 MINUTES: Add about 2.5 CC more Cathode Solution (2Z)
ADD 1.5 CC ANODE SOLUTION: Place Instrument inside plastic bag:
RUN 20 MINUTES ON NO O₃: Store inside Styrofoam flight box:
Record the current after the 20 MINUTES ON NO O₃: = 0.78 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 06/16 **DRY T100**
INITIALS: BH #1: 29.97
Cathode solution date written on bottle: 09/08/2011 #2: 30.14
CHANGE CATHODE SOLUTION (3cc): (v) #3: 30.30
CHANGE ANODE SOLUTION (1.5cc): (Yes/No) DRY AVG: 30.14
RUN ON NO O₃ FOR 5 MINUTES: (v) **WET T100**
RECORD THE NO O₃ BACKGRND#1: BG1=0.087 μ amps #1: 30.70
RUN ON 5 microamps of O₃ for 10 Minutes: (v) #2: 30.96
#3: 30.90
WET AVG: 30.85

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.61/sec
FLOWRATE #2: 28.72
FLOWRATE #3: 28.85
FLOWRATE #4: 28.76
FLOWRATE #5: 28.76
AVERAGE T100: 28.74

RESONSE TIME
SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 30.16 sec. *T100 Flowrate correction 2.36%
RECORD: ROOM TEMP (C) 22.9 ROOM REL. HUMID. (%) 45%
RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____
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): 128323843 SKY CONDITIONS: _____
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____ ~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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