

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

FLT # HU698

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/20 PUMP CURRENT: 100.53 30 MINUTES HI O₃ (v)
INITIALS: BH PUMP PRESSURE: 27.0 5 MINUTE NO O₃ (v)
PUMP NUMBER: 229833V2D PUMP VACUUM: 23

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: = 0.492 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/03 **DRY T100**
INITIALS: BH #1: 27.72
Cathode solution date written on bottle: 03/20/2010 #2: 27.74
CHANGE CATHODE SOLUTION (3cc): (v) #3: 27.60
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No) DRY AVG: 27.69
RUN ON NO O₃ FOR 5 MINUTES: (v) **WET T100**
RECORD THE NO O₃ BACKGRND#1: BG1 = 0.041 μ amps #1: 28.13
RUN ON 5 microamps of O₃ for 10 Minutes: (v) #2: 28.16
#3: 28.39
WET AVG: 28.23

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.89 sec
FLOWRATE #2: 28.71
FLOWRATE #3: 28.81
FLOWRATE #4: 28.89
FLOWRATE #5: 28.83
AVERAGE T100: 28.85

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.69 sec. *T100 Flowrate correction: 1.85%
RECORD: ROOM TEMP (C) 24.1 ROOM REL. HUMID. (%) 39%
RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU698
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): 198711842 SKY CONDITIONS: _____
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____ ~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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