

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

FLT # HU835

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 09/28/2013 PUMP CURRENT: 101.12 30 MINUTES HI O₃ (v)
INITIALS: NLP PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 2225191 PUMP VACUUM: 20

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 = 88.08 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/19 **DRY T100**
INITIALS: BH #1: 28.61
Cathode solution date written on bottle: 08/13/2013 #2: 28.79
CHANGE CATHODE SOLUTION (3cc): (v) #3: 28.70
CHANGE ANODE SOLUTION (1.5cc): (Yes/No) DRY AVG: 28.70
RUN ON NO O₃ FOR 5 MINUTES: (v) **WET T100**
RECORD THE NO O₃ BACKGRND#1: BG1 = 0.048 μ amps #1: 29.33
RUN ON 5 microamps of O₃ for 10 Minutes: (v) #2: 29.17
#3: 29.24
WET AVG: 29.25

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.97 sec
FLOWRATE #2: 29.21
FLOWRATE #3: 28.66
FLOWRATE #4: 28.79
FLOWRATE #5: 28.97
AVERAGE T100: 28.92

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 23.17 sec. *T100 Flowrate correction: 1.97 %
RECORD: ROOM TEMP (C) 20.3 ROOM REL. HUMID. (%) 44
RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU835
GMT DATE: 10/19/2013 LOCAL DATE: 10/19/2013
GMT LAUNCH TIME: 17:57:14 LOCAL TIME: 12:57:14

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 20102 SKY CONDITIONS: _____
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____ ~ BURST PRESSURE (mb) : _____
Alt: 30 km

REMARKS: _____

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