

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

FLT# HU637

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/07 PUMP CURRENT: 73.95 30 MINUTES HI O₃ (v)
INITIALS: BH PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 229273 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 = 0.454 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/21/2010 DRY T100
INITIALS: SC: BH #1: 27.74
Cathode solution date written on bottle: 10/14/2009 #2: 27.80
CHANGE CATHODE SOLUTION (3cc): (v) T100 FLOWRATE-TIMES: #3: 27.77
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No) FLOWRATE #1: 28.79 sec DRY AVG: 27.77
RUN ON NO O₃ FOR 5 MINUTES: (v) FLOWRATE #2: 28.98
RECORD THE NO O₃ BACKGRND#1: BG1 = .013 μamps FLOWRATE #3: 29.06
RUN ON 5 microamps of O₃ for 10 Minutes: (v) FLOWRATE #4: 29.04 WET T100
AVERAGE T100: 28.97 FLOWRATE #5: 28.97 #1: 28.19
#2: 28.29
#3: 28.37
WET AVG: 28.28

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 26.67 sec.

*T100 Flowrate correction: 1.83 %

RECORD: ROOM TEMP (C) 24.8 ROOM REL. HUMID. (%) 54%

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU637
GMT DATE: 08/21/2010 LOCAL DATE: 08/21/2010
GMT LAUNCH TIME: 18:08 LOCAL TIME: 13:08

BALLOON TYPE 1,200 Gram: Kaymont Scientific Sales (none)

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 229111942

SKY CONDITIONS: cloudy/windy

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): 33.14 km

REMARKS: _____

weighoff = _____ grams

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