

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

FLT# HU639

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/28/2010
INITIALS: SC & WC
PUMP NUMBER: 279421420

PUMP CURRENT: 87.06
PUMP PRESSURE: 210
PUMP VACUUM: 23

30 MINUTES HI O₃ (v)
5 MINUTE NO O₃ (v)

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: = 538 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/4/2010
INITIALS: SC & WC

Cathode solution date written on bottle: 6/21/2010
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1=0.045 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

*T100 FLOWRATE TIMES:

FLOWRATE #1: 28.55 sec
FLOWRATE #2: 28.37
FLOWRATE #3: 28.50
FLOWRATE #4: 28.36
FLOWRATE #5: 28.43
AVERAGE T100: 28.44

DRY T100

#1: 27.77
#2: 27.84
#3: 27.93
DRY AVG: 27.85

WET T100

#1: 28.36
#2: 28.33
#3: 28.27
WET AVG: 28.32

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 28.05 sec.

RECORD: ROOM TEMP (C) 24.2 ROOM REL. HUMID. (%) 43

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.69 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU639
GMT DATE: 9/4/2010
GMT LAUNCH TIME: 18:17:55

LOCAL DATE: 9/4/2010
LOCAL TIME: 13:17:55

BALLOON TYPE 800 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 229111741
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Clear

~ BURST PRESSURE (mb): 29.62 km

REMARKS: _____

weighoff = _____ grams

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