

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

FLT# HU 635

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 07/24
INITIALS: BH
PUMP NUMBER: 229260V2D

PUMP CURRENT: 97.86
PUMP PRESSURE: 210
PUMP VACUUM: 22

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: = 0.1534 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 08/07/2010
INITIALS: BH
Cathode solution date written on bottle: 10/14/2009
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 = 0.013 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.89 sec
FLOWRATE #2: 29.89
FLOWRATE #3: 29.82
FLOWRATE #4: 29.85
FLOWRATE #5: 29.78
AVERAGE T100: 29.85

DRY T100

#1: 27.89
#2: 27.64
#3: 27.87
DRY AVG: 27.80

WET T100

#1: 28.31
#2: 28.37
#3: 28.38
WET AVG: 28.35

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 25.97 sec.

RECORD: ROOM TEMP (C) 24.3 ROOM REL. HUMID. (%) 47

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.98 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 635

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): 229111948

SKY CONDITIONS: _____

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = _____ grams

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