

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

FLT # HU633

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 07/10/2010 PUMP CURRENT: 9/135 30 MINUTES HI O₃ (v)
INITIALS: BH PUMP PRESSURE: 210 5 MINUTE NO O₃ (v)
PUMP NUMBER: ~~2229~~ PUMP VACUUM: 23
229274-V2D
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: = 0.460 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 07/24
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= 0.010 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.52 sec
FLOWRATE #2: 29.37
FLOWRATE #3: 29.47
FLOWRATE #4: 29.43
FLOWRATE #5: 29.43

AVERAGE T100: 29.44

DRY T100

#1: 27.89
#2: 27.66
#3: 27.62
DRY AVG: 27.72

WET T100

#1: ~~28.05~~ 28.1
#2: ~~28.05~~ 28.1
#3: ~~28.05~~ 28.1
WET AVG: 28.18

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 26.09 sec.

RECORD: ROOM TEMP (C) 24.4 ROOM REL. HUMID. (%) 42

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.66%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU633
GMT DATE : 07/24/2010 LOCAL DATE: 07/24/2010
GMT LAUNCH TIME : _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 22911747
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: _____
~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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