

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

FLT # H4725

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 02/25
INITIALS: Bjt
PUMP NUMBER: 27965425

PUMP CURRENT: 77.32
PUMP PRESSURE: 510
PUMP VACUUM: 22

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

ADD 3.0 CC CATHODE SOLUTION: (v)
WAIT 2 MINUTES: (v)
ADD 1.5 CC ANODE SOLUTION: (v)
RUN 20 MINUTES ON NO O₃: (v)

Short the cell leads: (v)
Add about 2.5 CC more Cathode Solution (2Z): (v)
Place Instrument inside plastic bag: (v)
Store inside Styrofoam flight box: (v)

Record the current after the 20 MINUTES ON NO O₃: = 8.48 μ amps

FLIGHT PREPARATION IN LAB.

DRY T100

DATE (LOCAL): 3/3/2012
INITIALS: WTC

#1: 27.52
#2: 27.44
#3: 27.49

Cathode solution date written on bottle: Sept. 8, 2011
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.49 sec
FLOWRATE #2: 29.17
FLOWRATE #3: 29.24
FLOWRATE #4: 29.20
FLOWRATE #5: 29.55
AVERAGE T100: 29.33

DRY AVG: 27.62

RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1= 0.018 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

WET T100
#1: 28.41
#2: 27.89
#3: 28.30

WET AVG: 28.1

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.09 sec.

*T100 Flowrate correction: 1.73%

RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 16

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4725
GMT DATE: 3/3/2012
GMT LAUNCH TIME: 18:59

LOCAL DATE: 3/3/2012
LOCAL TIME: 12:59

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 345303610
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____ 10.8

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

REMARKS: _____

weighoff = _____ grams

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