

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

FLT # H4587

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 09/05/2009
INITIALS: BCV
PUMP NUMBER: 238448

PUMP CURRENT: 99.12
PUMP PRESSURE: >10
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: = 0.276 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/19/09
INITIALS: WC
Cathode solution date written on bottle: 4/17/09
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1=0.030 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.32 sec
FLOWRATE #2: 29.17
FLOWRATE #3: 29.15
FLOWRATE #4: 29.19
FLOWRATE #5: 29.05

AVERAGE T100: 29.18

DRY T100

#1: 28.03
#2: 27.94
#3: 27.95

DRY AVG: 27.97

WET T100

#1: 28.23
#2: 28.34
#3: 28.35

WET AVG: 28.31

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 35.34 sec.

*T100 Flowrate correction. 1.21 %

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 54

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4587
GMT DATE: 9/19/09 LOCAL DATE: 9/19/09
GMT LAUNCH TIME: 13:11:09 LOCAL TIME: 1:13:09

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 517310703
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy, Rain

- BURST PRESSURE (mb): 7.158
Alt: 33.64 km

REMARKS: _____

weighoff = _____ grams

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