

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

FLT# 4n613

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/06/10 PUMP CURRENT: 80.54 30 MINUTES HI O₃ (v)
INITIALS: SL PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 27887P-V20 PUMP VACUUM: 22

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: = 0.212 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3/20/10
INITIALS: B
Cathode solution date written on bottle: 10/14/09
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= 0.025 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.59 sec
FLOWRATE #2: 28.37
FLOWRATE #3: 28.49
FLOWRATE #4: 28.51
FLOWRATE #5: 28.42

AVERAGE T100: 28.48

DRY T100

#1: 27.69
#2: 27.63
#3: 27.67

DRY AVG: 27.66

WET T100

#1: 28.21
#2: 28.28
#3: 28.37

WET AVG: 28.29

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 32.17 sec.

*T100 Flowrate correction: 2.28 %

RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 24

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 4n613
GMT DATE: 3/20/10 LOCAL DATE: 3/20/10
GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): 0.025

VAISALA NUMBER (9 digit): 148752455

SKY CONDITIONS: B-E-A-UTIFUL

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): _____
34.05 km

REMARKS: _____

weighoff = _____ grams

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