

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

FLT# 617

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 04/03/10 PUMP CURRENT: 83.60 30 MINUTES HI O₃ (v)
INITIALS: SL PUMP PRESSURE: 210 5 MINUTE NO O₃ (v)
PUMP NUMBER: 278878-V2D PUMP VACUUM: 23

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: = 0.739 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 04/17/2010
INITIALS: BL
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=0.020 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.93 sec
FLOWRATE #2: 28.99
FLOWRATE #3: 28.89
FLOWRATE #4: 28.89
FLOWRATE #5: 29.07
AVERAGE T100: 28.97

DRY T100

#1: 27.57
#2: 27.48
#3: 27.57
DRY AVG: 27.54

WET T100

#1: 28.14
#2: 28.13
#3: 28.18

WET AVG: 28.15

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 29.17 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 33

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 2.21 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 14617

GMT DATE: 04/17

LOCAL DATE: 04/17

GMT LAUNCH TIME: _____

LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 148752454

SKY CONDITIONS: _____

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): _____

REMARKS: After 20 mins on No/L0 in 3-7 day prep 0.914 μ amps
After 23 mins, 0.739 μ amps.

weighoff = _____ grams

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