

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

FLT # H4600

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/5/09
INITIALS: SL
PUMP NUMBER: 278535

PUMP CURRENT: 102
PUMP PRESSURE: 10
PUMP VACUUM: 14

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: = 0.303 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/19/09
INITIALS: WTC

Cathode solution date written on bottle: 4/17/09
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 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.24 sec
FLOWRATE #2: 29.26
FLOWRATE #3: 29.11
FLOWRATE #4: 29.30
FLOWRATE #5: 29.18
AVERAGE T100: 29.21

DRY T100

#1: 27.73
#2: 27.77
#3: 27.77
DRY AVG: 27.75

WET T100

#1: 28.42
#2: 28.33
#3: 28.33
WET AVG: 28.36

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 27.52 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 23
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 2.19%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4600
GMT DATE: 12/19/09 LOCAL DATE: 12/19/09
GMT LAUNCH TIME: 19:05:33 LOCAL TIME: 13:05:33

BALLOON TYPE 1200 Gram : Kaymont Scientific Sales (None)

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 308910952
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy, Windy

- BURST PRESSURE (mb): _____
Alt: 34.17 km

REMARKS: _____

weighoff = _____ grams

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