

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

FLT # H4738

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/19
INITIALS: BM
PUMP NUMBER: 226074

PUMP CURRENT: 85.96
PUMP PRESSURE: 760
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: = 0.537 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/2/2012
INITIALS: WZ

Cathode solution date written on bottle: Sept 8, 2011
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 = 0.022 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.6 sec
FLOWRATE #2: 28.6
FLOWRATE #3: 28.7
FLOWRATE #4: 28.6
FLOWRATE #5: 28.6
AVERAGE T100: 28.6

DRY T100
#1: 29.1
#2: 29.2
#3: 29.1
DRY AVG: 29.15
WET T100
#1: 30.5
#2: 30.6
#3: 30.6
WET AVG: 30.6

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 26.1 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 35

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 4.92%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4738
GMT DATE: 6/2/2012
GMT LAUNCH TIME: 12:50:43

LOCAL DATE: 6/2/2012
LOCAL TIME: 12:50:43

BALLOON TYPE 800 Gram : Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 128323785
SURFACE PRESSURE: _____
SURFACE TEMP. (C): 70.3
SURFACE HUMIDITY: _____

SKY CONDITIONS: Light clouds
~ BURST PRESSURE (mb): _____
A1+ = 30.4 km

REMARKS: _____