

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

FLT # Hn618

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT

DATE (LOCAL): 4/10/2010
INITIALS: WTC
PUMP NUMBER: 228870

PUMP CURRENT: 25.18
PUMP PRESSURE: 11
PUMP VACUUM: 22

30 MINUTES HI O₃ (v)
5 MINUTE NO O₃ (v)

ADD 3.0 CC CATHODE SOLUTION: (v)
WAIT 2 MINUTES: (v)
ADD 1.5 CC ANODE SOLUTION: (v)
RUN 20 MINUTES ON NO O₃: (v)

Short the cell leads: (v)
Add about 2.5 CC more Cathode Solution (2Z) (v)
Place Instrument inside plastic bag: (v)
Store inside Styrofoam flight box: (v)

Record the current after the 20 MINUTES ON NO O₃: = 0.445 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/23/2010
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=0.018 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.44 sec
FLOWRATE #2: 28.41
FLOWRATE #3: 28.46
FLOWRATE #4: 28.43
FLOWRATE #5: 28.49
AVERAGE T100: 28.45

DRY T100

#1: 27.40
#2: 27.53
#3: 27.57
95
57
150

DRY AVG: 27.50

WET T100

#1: 28.05
#2: 28.13
#3: 28.13

WET AVG: 28.11

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 29.73 sec.

*T100 Flowrate correction: 2.21 %

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 33

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hn618
GMT DATE: 4/23/10
GMT LAUNCH TIME: 1620

LOCAL DATE: 4/23/10
LOCAL TIME: 1120

658-2118
Vanessa

BALLOON TYPE 1400 Gram: Kaymont Scientific Sales (none)

O₃ BACKGROUND (μ amps from F9 key): 0.018

VAISALA NUMBER (9 digit): 148752747
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb): _____
33.49 km

REMARKS: _____

weighoff = _____ grams

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