

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

FLT # HU552

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 1/20/09
INITIALS: SL
PUMP NUMBER: 278045

PUMP CURRENT: 81.24
PUMP PRESSURE: 710
PUMP VACUUM: 20

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: = 0.796 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/31/09
INITIALS: B

Cathode solution date written on bottle: 3/4/08
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= 0.031 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.90 sec
FLOWRATE #2: 28.87
FLOWRATE #3: 28.93
FLOWRATE #4: 28.90
FLOWRATE #5: 28.93

DRY T100

#1: 28.25
#2: 28.55
#3: 28.43

DRY AVG: 28.41

WET T100

#1: 28.86
#2: 28.70
#3: 28.75

WET AVG: 28.75

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 50.51 sec.

RECORD: ROOM TEMP (C) 15 ROOM REL. HUMID. (%) 19

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 120 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU552
GMT DATE: 1/31/09
GMT LAUNCH TIME: _____

LOCAL DATE: 1/31/09
LOCAL TIME: _____

BALLOON TYPE r200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): 0.031

VAISALA NUMBER (9 digit): 308911046
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb): _____

REMARKS: took 25 min. to get below 0.8 mamps at current in initial prep; tested again on 1/28/09 maintained 0.03 mamps. should be OK to fly! SL

weighoff = _____ grams

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