

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

FLT # Hn525

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 8/11/08
INITIALS: SL
PUMP NUMBER: 227863

PUMP CURRENT: 73.72
PUMP PRESSURE: >10
PUMP VACUUM: 21

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)
Record the current after the 20 MINUTES ON NO O₃: = 0.585 μ amps

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)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/15/08
INITIALS: SL

Cathode solution date written on bottle: 8/24/07
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 = 0.041 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.40 sec
FLOWRATE #2: 29.47
FLOWRATE #3: 29.47
FLOWRATE #4: 29.47
FLOWRATE #5: 29.40
AVERAGE T100: 29.44

DRY T100

#1: 28.63
#2: 28.66
#3: 28.69
DRY AVG: 28.66

WET T100

#1: 28.99
#2: 29.05
#3: 28.93
WET AVG: 28.99

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 34.00 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 50

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.15 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: Hn525

GMT DATE: 8/15/08

LOCAL DATE: 8/15/08

GMT LAUNCH TIME: 1821

LOCAL TIME: 1321

BALLOON TYPE: 200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): 0.041

VAISALA NUMBER (9 digit): 117707210

SKY CONDITIONS: clear, few clouds *lots of*

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): 8.202
32.88 km

REMARKS: _____

weighoff = _____ grams

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