

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

FLT # HU523

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 8/8/08
INITIALS: SL
PUMP NUMBER: 227693

PUMP CURRENT: 85.22
PUMP PRESSURE: >10
PUMP VACUUM: 23

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: = 0.371 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/11/08
INITIALS: SL

DRY T100

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=0.021 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.52 sec
FLOWRATE #2: 29.49 sec
FLOWRATE #3: 29.48 sec
FLOWRATE #4: 29.43 sec
FLOWRATE #5: 29.45 sec

#1: 28.59
#2: 28.53
#3: 28.69
DRY AVG: 28.60

WET T100

#1: 29.09
#2: 29.00
#3: 29.04
WET AVG: 29.04

AVERAGE T100: 29.47

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 33.62 sec.

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

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.54%

WET AVG: 29.04

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU523

GMT DATE: 8/11/08

LOCAL DATE: 8/11/08

GMT LAUNCH TIME: 18:45:56

LOCAL TIME: 13:45:56

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): 0.021

VAISALA NUMBER (9 digit): 119203412

SKY CONDITIONS: partly cloudy

SURFACE PRESSURE: /

SURFACE TEMP. (C): /

SURFACE HUMIDITY: /

~ BURST PRESSURE (mb): 9.415 at 31.87kr

REMARKS: _____

weighoff = _____ grams

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