

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

FLT # HU504

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 03/29/08
INITIALS: SL
PUMP NUMBER: 227418

PUMP CURRENT: 90.39
PUMP PRESSURE: 710
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: = 0.358 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/12/08
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**=0.037 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 27.77 sec
FLOWRATE #2: 27.64
FLOWRATE #3: 27.73
FLOWRATE #4: 27.77
FLOWRATE #5: 27.66
AVERAGE T100: 27.714

DRY T100

#1: 28.47
#2: 28.36
#3: 28.40
DRY AVG: 28.41

WET T100

#1: 28.28
#2: 28.89
#3: 28.92
WET AVG: 28.89

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.97 sec.

RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 25

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.69%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU504

GMT DATE: 04/12/08

LOCAL DATE: 04/12/08

GMT LAUNCH TIME: 18:36

LOCAL TIME: 13:36

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

O₃ BACKGROUND (μ amps from F9 key): 0.037

VAISALA NUMBER (9 digit): 189210544

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: partly cloudy
windy ~13 mph

~ BURST PRESSURE (mb): 10.133 at 30.74k

REMARKS: Bill Brown attached high freq. sensor to balloon
launched at 13:30 for IES overpass

weighoff = _____ grams

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