

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

FLT # HU537

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/04/08
INITIALS: BJH
PUMP NUMBER: 227804

PUMP CURRENT: 31.95
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: = 0.472 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/18/08
INITIALS: SL & RY

Cathode solution date written on bottle: 7/10/08

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**= 0.012 μ amps

RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.05 sec

FLOWRATE #2: 29.15

FLOWRATE #3: 29.17

FLOWRATE #4: 29.19

FLOWRATE #5: 29.21

AVERAGE T100: 29.15

DRY T100

#1: 28.70

#2: 28.77

#3: 28.74

DRY AVG: 28.75

WET T100

#1: 29.08

#2: 29.05

#3: 29.11

WET AVG: 29.08

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 25.99 sec.

RECORD: ROOM TEMP (C) 21^oC ROOM REL. HUMID. (%) 26%

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 1.14 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU537

GMT DATE: 10/18/08

GMT LAUNCH TIME: 18:03

LOCAL DATE: 10/18/08

LOCAL TIME: 13:03

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

O₃ BACKGROUND (μ amps from F9 key): 0.012

VAISALA NUMBER (9 digit): 320602709

SURFACE PRESSURE: /

SURFACE TEMP. (C): /

SURFACE HUMIDITY: /

SKY CONDITIONS: mostly sunny, some clouds, Wind to SE

~ BURST PRESSURE (mb): 8.371 at 32.20 km

REMARKS: _____

weighoff = _____ grams

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