

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

FLT # HU521

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/26/08
INITIALS: SL
PUMP NUMBER: 227709

PUMP CURRENT: 84.30
PUMP PRESSURE: >10
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: = 0.635 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/7/08
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 = 0.064 μamps

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

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.45 sec

FLOWRATE #2: 29.43

FLOWRATE #3: 29.48

FLOWRATE #4: 29.37

FLOWRATE #5: 29.29

AVERAGE T100: 29.40

DRY T100

#1: 28.68

#2: 28.67

#3: 28.67

DRY AVG: 28.67

WET T100

#1: 29.09

#2: 29.10

#3: 29.09

WET AVG: 29.09

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 37.76 sec.

RECORD: ROOM TEMP (C) 22 ROOM REL. HUMID. (%) 53

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.46%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU521

GMT DATE: 19:00:57

LOCAL DATE: 14:00:57

GMT LAUNCH TIME: 8/8/08

LOCAL TIME: 8/8/08

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

O₃ BACKGROUND (μamps from F9 key): 0.064

VAISALA NUMBER (9 digit): 117707209

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: partly cloudy

~ BURST PRESSURE (mb): 11.366 at 30.54km

REMARKS: omi validation with WSA, George Mount and Elena Spinei

weighoff = _____ grams

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