

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

FLT # HU483

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11-17-07
INITIALS: DLW
PUMP NUMBER: 277067

PUMP CURRENT: 81
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)
Record the current after the 20 MINUTES ON NO O₃: = 0.265 μamps

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): 11/24/07
INITIALS: PI
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=0.010 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.73 sec
FLOWRATE #2: 28.50
FLOWRATE #3: 28.53
FLOWRATE #4: 28.59
FLOWRATE #5: 28.54
AVERAGE T100: 28.578

DRY T100

#1: 28.795
#2: 28.296
#3: 28.49
DRY AVG: 28.54
(repeated values below)

WET T100

#1: 28.65
#2: 28.91
#3: 28.81
WET AVG: 28.79

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 28.33 sec.

RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 23.1

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.4 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 110483
GMT DATE: 11/24/07
GMT LAUNCH TIME: 19:29:25

LOCAL DATE: 11/24/07
LOCAL TIME: 19:29:25

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

O₃ BACKGROUND (μamps from F9 key): 0.010

VAISALA NUMBER (9 digit): 320510106
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: MOSTLY cloudy

~ BURST PRESSURE (mb) : 8.667

REMARKS: Had problems reaching E.O had to use air pump
First time correction factor was less. so to repeat dry test to get
Correction factor

weighoff = _____ grams

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