

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

FLT # HU 534

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 09/13
INITIALS: BT
PUMP NUMBER: 227300

PUMP CURRENT: 97.17
PUMP PRESSURE: 210
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: = 0.365 μ amps

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): 9/27/08
INITIALS: SL

Cathode solution date written on bottle: 7/16/08
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=0.021 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.01 sec
FLOWRATE #2: 28.97
FLOWRATE #3: 28.94
FLOWRATE #4: 28.97
FLOWRATE #5: 28.93

AVERAGE T100: 28.96

DRY T100

#1: 28.83
#2: 28.09
#3: 28.68
DRY AVG: 28.73

WET T100

#1: 29.22
#2: 29.25
#3: 29.30
WET AVG: 29.26

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.44 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 43

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.84 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 534

GMT DATE: 9/27/08

GMT LAUNCH TIME: 18:00:56

LOCAL DATE: 9/27/08

LOCAL TIME: 13:00:56

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

O₃ BACKGROUND (μ amps from F9 key): 0.021

VAISALA NUMBER (9 digit): 320602501

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: cloudy
SE wind

~ BURST PRESSURE (mb): 8.868 at 32.06k

REMARKS: _____

weighoff = _____ grams

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