

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

FLT # HU518

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/5/08
INITIALS: SK
PUMP NUMBER: 237710

PUMP CURRENT: 88
PUMP PRESSURE: 10
PUMP VACUUM: 20

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: = 0.66 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 7/19/08
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: 29.62 sec
FLOWRATE #2: 29.59
FLOWRATE #3: 29.59
FLOWRATE #4: 29.53
FLOWRATE #5: 29.51

AVERAGE T100: 29.57

DRY T100

#1: 28.68
#2: 28.66
#3: 28.63
DRY AVG: 28.66

WET T100

#1: 29.03
#2: 29.04
#3: 29.02
WET AVG: 29.03

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 26.04 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 55

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.29 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU518

GMT DATE: 7/19/08

GMT LAUNCH TIME: 17:53

LOCAL DATE: 7/19/08

LOCAL TIME: 12:53

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

O₃ BACKGROUND (μ amps from F9 key): 0.037

VAISALA NUMBER (9 digit): 118300300

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: mostly sunny,
scattered clouds

~ BURST PRESSURE (mb): 10.264 at 31.33 kPa

REMARKS: _____

weighoff = _____ grams

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