

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

FLT # HU532

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/30/08
INITIALS: BHSL
PUMP NUMBER: 227704

PUMP CURRENT: 92.44
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)
Record the current after the 20 MINUTES ON NO O₃: = 0.656 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): 09/13/08
INITIALS: BH
Cathode solution date written on bottle: 07/14/08
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=0.059 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.43 sec
FLOWRATE #2: 29.52
FLOWRATE #3: 29.45
FLOWRATE #4: 29.33
FLOWRATE #5: 29.40

AVERAGE T100: 29.43

DRY T100

#1: 28.73
#2: 29.02
#3: 28.67
DRY AVG: 28.81

WET T100

#1: 29.29
#2: 29.13
#3: 29.22
WET AVG: 29.21

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 28.83 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 62

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.39 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU532
GMT DATE: 09/13
GMT LAUNCH TIME: 18:04

LOCAL DATE: 09/13
LOCAL TIME: 13:04

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

O₃ BACKGROUND (μamps from F9 key): 0.059

VAISALA NUMBER (9 digit): 320602801
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: partially cloudy,
windy.

~ BURST PRESSURE (mb) : _____

REMARKS: _____

weighoff = _____ grams

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