

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

FLT# HU592

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/10/09
INITIALS: B
PUMP NUMBER: 228475

PUMP CURRENT: 83.01
PUMP PRESSURE: 22
PUMP VACUUM: > 11

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: = 0.548 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): 10/24/09
INITIALS: SL

Cathode solution date written on bottle: 4/17/09
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=0.019 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.72 sec
FLOWRATE #2: 28.72
FLOWRATE #3: 28.57
FLOWRATE #4: 28.53
FLOWRATE #5: 28.65
AVERAGE T100: 28.63

DRY T100
#1: 28.03
#2: 28.00
#3: 28.00
DRY AVG: 28.01

WET T100
#1: 28.47
#2: 28.40
#3: 28.46
WET AVG: 28.44

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 29.57 sec.

RECORD: ROOM TEMP (C) 20 ROOM REL. HUMID. (%) 33

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.54%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU592
GMT DATE: 10/24/09
GMT LAUNCH TIME: _____

LOCAL DATE: 10/24/09
LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): 0.019

VAISALA NUMBER (9 digit): 309010251
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: cloudy, overcast

~ BURST PRESSURE (mb): 6.542 @ 33.75 kPa

REMARKS: _____

weighoff = _____ grams

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