

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

FLT # HU578

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/4/09
INITIALS: WC
PUMP NUMBER: 228245

PUMP CURRENT: 83.06
PUMP PRESSURE: 11
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: = ~~0.228~~ 0.228 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): 07/18/09
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=0.020 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.93 sec
FLOWRATE #2: 28.93
FLOWRATE #3: 28.99
FLOWRATE #4: 28.89
FLOWRATE #5: 28.97
AVERAGE T100: 28.94

DRY T100
#1: 28.27
#2: 28.29
#3: 28.35
DRY AVG: 28.30

WET T100
#1: 28.48
#2: 28.53
#3: 28.51
WET AVG: 28.51

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.37 sec.

RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 40

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 0.74%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 578
GMT DATE: 7/18/09
GMT LAUNCH TIME: 18:10

LOCAL DATE: 7/18/09
LOCAL TIME: 18:10

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

O₃ BACKGROUND (μ amps from F9 key): 0.020

VAISALA NUMBER (9 digit): 723200913

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: sunny partly

cloudy

7 mph wind
- BURST PRESSURE (mb): 7.403 at 33. 63 ft

REMARKS: package a bit topsided at launch.

weighoff = _____ grams

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