

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

FLT # HU551

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 1/10/09
INITIALS: JR/BN
PUMP NUMBER: 228049

PUMP CURRENT: 84.65
PUMP PRESSURE: 10
PUMP VACUUM: 22

30 MINUTES HI O₃ (v)
5 MINUTE NO O₃ (v)

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)
WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)
ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)
RUN 20 MINUTES ON NO O₃: (v) Store inside Styrofoam flight box: (v)
Record the current after the 20 MINUTES ON NO O₃: = 0.410 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1/24/2009
INITIALS: BJH
Cathode solution date written on bottle: 3/4/08
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=0.020 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.16 sec
FLOWRATE #2: 29.27
FLOWRATE #3: 29.30
FLOWRATE #4: 29.13
FLOWRATE #5: 29.08

AVERAGE T100: 29.19

DRY T100

#1: 28.44
#2: 28.23
#3: 28.17
DRY AVG: 28.28

WET T100

#1: 28.58
#2: 28.69
#3: 28.59
WET AVG: 28.62

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 34.45 sec.

RECORD: ROOM TEMP (C) 16 ROOM REL. HUMID. (%) 24

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.2 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU551
GMT DATE: 01/24/2009
GMT LAUNCH TIME: 19:02

LOCAL DATE: 01/24/2009
LOCAL TIME: 13:02

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

O₃ BACKGROUND (μamps from F9 key): 0.020

VAISALA NUMBER (9 digit): 517101207
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: 20 clouds, a little bit wind

~ BURST PRESSURE (mb): ~~6.608~~ 33.002
~~32.624~~ 6.853

REMARKS: _____

weighoff = _____ grams

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