

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

FLT # _____

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3/10/2012 PUMP CURRENT: 89.51 30 MINUTES HI O₃
INITIALS: RH PUMP PRESSURE: 710 5 MINUTE NO O₃
PUMP NUMBER: 2320726 PUMP VACUUM: 23

ADD 3.0 CC CATHODE SOLUTION: Short the cell leads:
WAIT 2 MINUTES: Add about 2.5 CC more Cathode Solution (2Z)
ADD 1.5 CC ANODE SOLUTION: Place Instrument inside plastic bag:
RUN 20 MINUTES ON NO O₃ Store inside Styrofoam flight box:
Record the current after the 20 MINUTES ON NO O₃: = 0.691 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 3/24/2012
INITIALS: WTC
Cathode solution date written on bottle: 5:01 8, 2011
CHANGE CATHODE SOLUTION (3cc):
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES:
RECORD THE NO O₃ BACKGRND#1: BG1 = 0.123 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes:

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.93 sec
FLOWRATE #2: 28.83
FLOWRATE #3: 28.81
FLOWRATE #4: 28.99
FLOWRATE #5: 28.91
AVERAGE T100: 28.89

DRY T100

#1: 27.71
#2: 27.77
#3: 27.74
DRY AVG: 27.74

WET T100

#1: 28.38
#2: 28.38
#3: 28.34
WET AVG: 28.36

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 31.45 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 35

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 2.23%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 728
GMT DATE: 3/23/2012 LOCAL DATE: 11
GMT LAUNCH TIME: 17:58 LOCAL TIME: 17:58

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 106165101
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb): _____

Alt: 23.6m

REMARKS: _____

weighoff = _____ grams

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