

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

FLT # HU741

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 06/16
INITIALS: BH
PUMP NUMBER: 2210073

PUMP CURRENT: 82.33
PUMP PRESSURE: 26
PUMP VACUUM: 21

30 MINUTES HI O₃
5 MINUTE NO O₃

ADD 3.0 CC CATHODE SOLUTION:
WAIT 2 MINUTES:
ADD 1.5 CC ANODE SOLUTION:
RUN 20 MINUTES ON NO O₃:
Record the current after the 20 MINUTES ON NO O₃: = 0.700 μ amps

Short the cell leads:
Add about 2.5 CC more Cathode Solution (2Z):
Place Instrument inside plastic bag:
Store inside Styrofoam flight box:

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 06/23
INITIALS: BH

Cathode solution date written on bottle: 09/08/2011
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 = μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: 0.067

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.23 sec
FLOWRATE #2: 29.17
FLOWRATE #3: 29.22
FLOWRATE #4: 29.29
FLOWRATE #5: 28.30
AVERAGE T100: 29.26

DRY T100
#1: 30.17
#2: 30.27
#3: 30.48
DRY AVG: 30.31

WET T100
#1: 30.81
#2: 30.87
#3: 30.82
WET AVG: 30.87

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 33.53 sec.

RECORD: ROOM TEMP (C) 24.3 ROOM REL. HUMID. (%) 43%

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction 1.85%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____

GMT DATE: _____

LOCAL DATE: _____

GMT LAUNCH TIME: _____

LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 239113442

SKY CONDITIONS: _____

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = _____ grams

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