

U. DEPT. OF COMMERCE
NATIO. U. OCEANIC AND ATMOSPHERIC ADMINISTRATION
CLIMA. 3 MONITORING AND DIAGNOSTICS LABORATORY
DIGITAL OZONESONDE CHECKLIST

FLT # HU644

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 9/25/2010 PUMP CURRENT: 87.02 30 MINUTES HI O₃ (v)
INITIALS: SC; WC PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 279407420 PUMP VACUUM: 24

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: = 0.589 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10-2-2010
INITIALS: SC; BH
Cathode solution date written on bottle: 6-21-2010
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=0.028 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.37 sec
FLOWRATE #2: 28.31
FLOWRATE #3: 28.34
FLOWRATE #4: 28.21
FLOWRATE #5: 28.23

DRY T100

#1: 27.66
#2: 27.67
#3: 27.59
DRY AVG: 27.44

WET T100

#1: 28.11
#2: 28.17
#3: 28.19
WET AVG: 28.14

AVERAGE T100: 28.29

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.10 sec.

*T100 Flowrate correction. 1.88 %

RECORD: ROOM TEMP (C) 22.5°C ROOM REL. HUMID. (%) 39%

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU644
GMT DATE: 10/2/2010
GMT LAUNCH TIME: 17:56:51

LOCAL DATE: 10/2/2010
LOCAL TIME: 12:56:51

BALLOON TYPE 1000 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 128323943

SKY CONDITIONS: Clear

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): 30.12 km

REMARKS: _____

weighoff = _____ grams

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