

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

12100000
FLT # HU648

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/19/2010 PUMP CURRENT: 92.39 30 MINUTES HI O₃ (v)
INITIALS: SC PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 229400-V2D PUMP VACUUM: 22

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: = 0.580 μ amps

FLIGHT PREPARATION IN LAB.

DRY T100

DATE (LOCAL): 10/23/2010 #1: 27.67
INITIALS: SC #2: 27.58
Cathode solution date written on bottle: 10/21/2010 #3: 27.68
CHANGE CATHODE SOLUTION (3cc): (v) FLOWRATE #1: 29.56 sec DRY AVG: 27.64
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No) FLOWRATE #2: 29.46
RUN ON NO O₃ FOR 5 MINUTES: (v) FLOWRATE #3: 29.57
RECORD THE NO O₃ BACKGRND#1: BG1=0.017 μ amps FLOWRATE #4: 29.35 WET T100
RUN ON 5 microamps of O₃ for 10 Minutes: (v) FLOWRATE #5: 29.45 #1: 28.16
AVERAGE T100: 29.48 #2: 28.17
#3: 28.22
WET AVG: 28.18

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 29.99 sec.

*T100 Flowrate correction: 1.95%

RECORD: ROOM TEMP (C) 22.1 ROOM REL. HUMID. (%) 32

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU648
GMT DATE: 10/23/2010 LOCAL DATE: 10/23/2010
GMT LAUNCH TIME: 20:06:07 LOCAL TIME: 15:06:07

BALLOON TYPE 820 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

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

SKY CONDITIONS: Clear
launched @ 3 because 1st
ozonesonde broke.
~ BURST PRESSURE (mb): 29.99 km

REMARKS: _____

weighoff = _____ grams

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