

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): 11/20/2010 PUMP CURRENT: 96.06 30 MINUTES HI O₃ (v)
INITIALS: JC & JKH PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 229465-V2D PUMP VACUUM: 20

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: = 0.778 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/10/2010 **DRY T100**
INITIALS: JKH WC #1: 27.18
Cathode solution date written on bottle: 6/21/2010 T100 FLOWRATE TIMES: #2: 27.37
CHANGE CATHODE SOLUTION (3cc): (v) FLOWRATE #1: 29.43 sec #3: 27.54
CHANGE ANODE SOLUTION (1.5cc): (Yes/No) FLOWRATE #2: 29.49 DRY AVG: 27.36
RUN ON NO O₃ FOR 5 MINUTES: (v) FLOWRATE #3: 29.60
RECORD THE NO O₃ BACKGRND#1: BG1 = .02 μ amps FLOWRATE #4: 29.39 **WET T100**
RUN ON 5 microamps of O₃ for 10 Minutes: (v) FLOWRATE #5: 29.31 #1: 27.89
AVERAGE T100: 29.44 #2: 27.96
#3: 28.07
WET AVG: 27.97

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 29.21 sec

RECORD: ROOM TEMP (C) 19 ROOM REL. HUMID. (%) 20

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 223%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HUG55
GMT DATE: 12/11/2010 LOCAL DATE: 12/11/2010
GMT LAUNCH TIME: 13:09:31 LOCAL TIME: 13:09:31

BALLOON TYPE (000) Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 168711944

SKY CONDITIONS: Rainy

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): _____

alt: 38.63 km

REMARKS: _____

weighoff = _____ grams

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