

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

FLT # HU 681

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/13/2011 PUMP CURRENT: 92.93 30 MINUTES HI O₃ (v)
INITIALS: SKH PUMP PRESSURE: >11 5 MINUTE NO O₃ (v)
PUMP NUMBER: 224805-V2D PUMP VACUUM: 222

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: = 764 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 5/14/11 INITIALS: WTC **DRY T100**
Cathode solution date written on bottle: 3/23/2010 T100 FLOWRATE TIMES: #1: 27.91
CHANGE CATHODE SOLUTION (3cc): (v) FLOWRATE #1: 29.31 sec #2: 27.93
CHANGE ANODE SOLUTION (1.5cc): (Yes/No) FLOWRATE #2: 29.17 DRY AVG: 27.94
RUN ON NO O₃ FOR 5 MINUTES: (v) FLOWRATE #3: 29.07
RECORD THE NO O₃ BACKGRND#1: BG1= 0.011 μ amps FLOWRATE #4: 29.03 **WET T100**
RUN ON 5 microamps of O₃ for 10 Minutes: (v) FLOWRATE #5: 29.06 #1: 28.22
AVERAGE T100: 29.13 #2: 28.34
#3: 28.38
WET AVG: 28.31

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.99 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 52

RECORD: 5 - T100 FLOWRATE TIMES: .

*T100 Flowrate correction. 1.32%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU681
GMT DATE: 5/14/2011 LOCAL DATE: 5/14/2011
GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 773200513
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

- BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = _____ grams

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