

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

FLT # HU703

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): _____ PUMP CURRENT: _____ 30 MINUTES HI O₃ _____ (✓)
INITIALS: _____ PUMP PRESSURE: _____ 5 MINUTE NO O₃ _____ (✓)
PUMP NUMBER: 229641 PUMP VACUUM: _____

ADD 3.0 CC CATHODE SOLUTION: _____ (✓) Short the cell leads: _____ (✓)
WAIT 2 MINUTES: _____ (✓) Add about 2.5 CC more Cathode Solution (2Z) _____ (✓)
ADD 1.5 CC ANODE SOLUTION: _____ (✓) Place Instrument inside plastic bag: _____ (✓)
RUN 20 MINUTES ON NO O₃: _____ (✓) Store inside Styrofoam flight box: _____ (✓)
Record the current after the 20 MINUTES ON NO O₃: = _____ μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/01
INITIALS: BJH
Cathode solution date written on bottle: 03/20/2010
CHANGE CATHODE SOLUTION (3cc): ✓ (✓)
CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: ✓ (✓)
RECORD THE NO O₃ BACKGRND#1: BGI = 0.025 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: ✓ (✓)

T100 FLOWRATE TIMES:
FLOWRATE #1: 28.73 sec
FLOWRATE #2: 28.64
FLOWRATE #3: 28.71
FLOWRATE #4: 28.60
FLOWRATE #5: 28.63
AVERAGE T100: 28.66

DRY T100

#1: 27.77
#2: 27.67
#3: 27.77
DRY AVG: 27.74

WET T100

#1: 28.27
#2: 28.01
#3: 28.35
WET AVG: 28.21

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 21.4 sec.

RECORD: ROOM TEMP (C) 22C ROOM REL. HUMID. (%) 70%

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.69 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU703
GMT DATE: _____ LOCAL DATE: _____
GMT LAUNCH TIME: _____ LOCAL TIME: _____

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

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 178714145
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: _____

~ BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = _____ grams

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