

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

FLT # HU696

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/30 PUMP CURRENT: 81.19 30 MINUTES HI O₃ (v)
INITIALS: BH PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 229793V20 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: = 0.051 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 08/20
INITIALS: BH
Cathode solution date written on bottle: 03/20/2010
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1= 0.034 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.50 sec
FLOWRATE #2: 29.50
FLOWRATE #3: 29.49
FLOWRATE #4: 29.47
FLOWRATE #5: 29.57
AVERAGE T100: 29.53

DRY T100
#1: 27.72
#2: 27.80
#3: 27.73
DRY AVG: 27.75
WET T100
#1: 28.59
#2: 28.08
#3: 28.06
WET AVG: 28.24

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 22.58 sec.

RECORD: ROOM TEMP (C) 23.9 ROOM REL. HUMID. (%) 43

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.77%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU696
GMT DATE: 08/20 LOCAL DATE: 08/20
GMT LAUNCH TIME: 0 LOCAL TIME: _____

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

O₃ BACKGROUND (μ amps from F9 key): ~~118222052~~

VAISALA NUMBER (9 digit): 118222052

SKY CONDITIONS: _____

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

- BURST PRESSURE (mb): _____

REMARKS: _____

weighoff = _____ grams

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