

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

FLT # HU490

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12-29-07
INITIALS: SL
PUMP NUMBER: 227243

PUMP CURRENT: 83.52
PUMP PRESSURE: >10
PUMP VACUUM: 23

30 MINUTES HI O₃ (v)
5 MINUTE NO O₃ (v)

ADD 3.0 CC CATHODE SOLUTION: (v)
WAIT 2 MINUTES: (v)
ADD 1.5 CC ANODE SOLUTION: (v)
RUN 20 MINUTES ON NO O₃: (v)
Record the current after the 20 MINUTES ON NO O₃: = 0.262 μ amps

Short the cell leads: (v)
Add about 2.5 CC more Cathode Solution (2Z) (v)
Place Instrument inside plastic bag: (v)
Store inside Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 1-12-08
INITIALS: DLW
Cathode solution date written on bottle: 8-29-07
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1=0.005 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 27.90 sec
FLOWRATE #2: 28.07
FLOWRATE #3: 27.92
FLOWRATE #4: 27.97
FLOWRATE #5: 27.89
AVERAGE T100: 27.95

DRY T100
#1: 28.33
#2: 28.15
#3: 28.23
DRY AVG: 28.24
WET T100
#1: 28.81
#2: 28.69
#3: 28.89
WET AVG: 28.78

RESPONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 23.19 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 25
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.92%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU490
GMT DATE: 1-12-08 LOCAL DATE: 1-12-08
GMT LAUNCH TIME: 19:06:04 LOCAL TIME: 13:06:04

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

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 320303312
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY : _____

SKY CONDITIONS: Clear
NE Wind 10 mph
- BURST PRESSURE (mb) : 8.484
31.730

REMARKS: _____

weighoff = _____ grams

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