

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

FLT # 40487

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12-01-07
INITIALS: SL
PUMP NUMBER: 227242

PUMP CURRENT: 84.75
PUMP PRESSURE: >10
PUMP VACUUM: 22

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)

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)

Record the current after the 20 MINUTES ON NO O₃: = 0.322 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/22/07
INITIALS: PT

Cathode solution date written on bottle: 08/24/07
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=0.020 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 27.57 sec
FLOWRATE #2: 27.72
FLOWRATE #3: 27.57
FLOWRATE #4: 27.73
FLOWRATE #5: 27.69

AVERAGE T100: 27.656

DRY T100

#1: 28.05
#2: 28.04
#3: 28.06

DRY AVG: 28.05

WET T100

#1: 28.67
#2: 28.78
#3: 28.60

WET AVG: 28.68

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 30.93 sec.

RECORD: ROOM TEMP (C) 23 ROOM REL. HUMID. (%) 82

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 2.24%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 40487
GMT DATE: 12/22/07
GMT LAUNCH TIME: 19:21:53

LOCAL DATE: 12/22/07
LOCAL TIME: 13:21:53

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

O₃ BACKGROUND (μ amps from F9 key): 0.020

VAISALA NUMBER (9 digit): 1892110415

SKY CONDITIONS: cloudy

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): 38.031
22.270 km

REMARKS: _____

weighoff = _____ grams

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