

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

FLT # HU558

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 02/28/09 PUMP CURRENT: 92.78 30 MINUTES HI O₃ (v)
INITIALS: SL PUMP PRESSURE: 10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 237966 PUMP VACUUM: 18

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: = 0.038 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 03/07/09
INITIALS: SL
Cathode solution date written on bottle: 3/4/08
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=0.011 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.83 sec
FLOWRATE #2: 29.70
FLOWRATE #3: 29.77
FLOWRATE #4: 29.85
FLOWRATE #5: 29.85
AVERAGE T100: 29.80

DRY T100
#1: 28.31
#2: 28.26
#3: 28.28
DRY AVG: 28.28
WET T100
#1: 28.69
#2: 28.64
#3: 28.59
WET AVG: 28.64

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.45 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 45
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.13 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU558
GMT DATE: 03/07/2009 LOCAL DATE: 03/07/2009
GMT LAUNCH TIME: 07:00:04 LOCAL TIME: 01:00:04

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 118221041
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: windy, cloudy

~ BURST PRESSURE (mb): 31.62 (km)
9.08 (mb)

REMARKS: _____

weighoff = _____ grams

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