

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

FLT # HU548

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 12/20/08 PUMP CURRENT: 98.20 30 MINUTES HI O₃ (v)
 INITIALS: YR/SL PUMP PRESSURE: 10 5 MINUTE NO O₃ (v)
 PUMP NUMBER: 27 8048 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: = 0.316 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): ~~12/20/08~~ 1/3/09
 INITIALS: YR/SL
 Cathode solution date written on bottle: _____
 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 μamps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.27 sec
 FLOWRATE #2: 29.31
 FLOWRATE #3: 29.42
 FLOWRATE #4: 29.60
 FLOWRATE #5: 29.22

AVERAGE T100: 29.36

DRY T100

#1: 28.83 | 28.
 #2: 28.73 | 28.
 #3: 28.77 | 28.
 DRY AVG: 28.77 | 28

WET T100

#1: 28.79 | 29
 #2: 28.99 | 29
 #3: 28.83 | 29
 WET AVG: 28.87 | 28

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 27.50 sec.

RECORD: ROOM TEMP (C) 18°C ROOM REL. HUMID. (%) 48

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 0.12 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU548
 GMT DATE: 1/3/09 LOCAL DATE: 1/3/09
 GMT LAUNCH TIME: 19:09:14 LOCAL TIME: 13:09:14

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

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 320 301915

SKY CONDITIONS: rainy, overcast

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

~ BURST PRESSURE (mb): 5.005
0.35.288

REMARKS: _____

weighoff = _____ grams

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