

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

FLT # HU 513

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 8/24/08 PUMP CURRENT: 90.50 30 MINUTES HI O₃ (v)
INITIALS: B PUMP PRESSURE: 10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 227523 PUMP VACUUM: 23

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: = 0.460 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/14/08 **DRY T100**
INITIALS: SL #1: 28.43
Cathode solution date written on bottle: 8/24/07 #2: 28.49
CHANGE CATHODE SOLUTION (3cc): (v) #3: 28.50
CHANGE ANODE SOLUTION (1.5cc): (Yes/No) DRY AVG: 28.47
RUN ON NO O₃ FOR 5 MINUTES: (v) **WET T100**
RECORD THE NO O₃ BACKGRND#1: BG1=0.040 μamps #1: 28.91
RUN ON 5 microamps of O₃ for 10 Minutes: (v) #2: 28.92
#3: 28.90
WET AVG: 28.91

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.11 sec
FLOWRATE #2: 29.04
FLOWRATE #3: 28.98
FLOWRATE #4: 29.09
FLOWRATE #5: 29.02
AVERAGE T100: 29.05

RESONSE TIME
SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 25-60 sec. *T100 Flowrate correction. 1.55 %
RECORD: ROOM TEMP (C) 24 ROOM REL. HUMID. (%) 60
RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 513
GMT DATE: 8/14/08 LOCAL DATE: 8/14/08
GMT LAUNCH TIME: 18:01 LOCAL TIME: 13:01

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

O₃ BACKGROUND (μamps from F9 key): 0.040

VAISALA NUMBER (9 digit): 219110443 SKY CONDITIONS: mostly cloudy
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____ ~ BURST PRESSURE (mb): 6.298 at 34.56 km

REMARKS: Reel jammed shortly after launch

weighoff = _____ grams

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