

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

FLT# H4619

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 3/17/10 PUMP CURRENT: 8283 30 MINUTES HI O₃ (v)
INITIALS: BT PUMP PRESSURE: 710 5 MINUTE NO O₃ (v)
PUMP NUMBER: 228879 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: = 12.660 μamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 4/27/2010
INITIALS: WTC
Cathode solution date written on bottle: 10/14/2009
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=0.063 μamps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.10 sec
FLOWRATE #2: 29.15
FLOWRATE #3: 29.18
FLOWRATE #4: 29.06
FLOWRATE #5: 29.15
AVERAGE T100: 29.13

DRY T100
#1: 27.69
#2: 27.77
#3: 27.82
DRY AVG: 27.76
WET T100
#1: 28.20
#2: 28.23
#3: 28.33
WET AVG: 28.25

RESONSE TIME

SWITCH TO NO O₃ AIR.
RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 40.10 sec.
RECORD: ROOM TEMP (C) 21 ROOM REL. HUMID. (%) 30
RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.72%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4619
GMT DATE: 4/27/2010 LOCAL DATE: 4/27/2010
GMT LAUNCH TIME: 18:59:51 LOCAL TIME: 13:59:51

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

O₃ BACKGROUND (μamps from F9 key): _____

VAISALA NUMBER (9 digit): 309016054
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy, rain
~ BURST PRESSURE (mb): _____
Alt: 36.74 km

REMARKS: _____

weighoff = _____ grams

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