

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

FLT # _____

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/19/2010 PUMP CURRENT: 85.40 30 MINUTES HI O₃ (v)
INITIALS: WC PUMP PRESSURE: 21 5 MINUTE NO O₃ (v)
PUMP NUMBER: 229473 V20 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: = 0.414 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/11/10
INITIALS: FWK WC
Cathode solution date written on bottle: 6/21/2010
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 = 0.414 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.26 sec
FLOWRATE #2: 29.29
FLOWRATE #3: 29.31
FLOWRATE #4: 29.19
FLOWRATE #5: 29.47
AVERAGE T100: 29.304

DRY T100

#1: 27.67
#2: 27.95
#3: 27.84
DRY AVG: 27.82

WET T100

#1: 28.13
#2: 28.23
#3: 28.19
WET AVG: 28.18

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 39.46 sec.

RECORD: ROOM TEMP (C) 16.1 ROOM REL. HUMID. (%) 20

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.25%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H0659
GMT DATE: 11/18/10 LOCAL DATE: 11/18/10
GMT LAUNCH TIME: 19:11:55 LOCAL TIME: 13:11:55

BALLOON TYPE 500 Gram: Kaymont Scientific Sales (v one)

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 210307202
SURFACE PRESSURE: _____
SURFACE TEMP. (C): _____
SURFACE HUMIDITY: _____

SKY CONDITIONS: VERY Windy

~ BURST PRESSURE (mb): _____
altitude 30.1

REMARKS: _____

weighoff = _____ grams

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