

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

FLT # HU 636

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/31/2010 PUMP CURRENT: 84.97 30 MINUTES HI O₃ (v)
INITIALS: WC PUMP PRESSURE: >11 5 MINUTE NO O₃ (v)
PUMP NUMBER: 279271 PUMP VACUUM: 21

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: = 0.401 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/14/10
INITIALS: SL & SC
Cathode solution date written on bottle: 10/14/09
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 = 0.017 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.23 sec
FLOWRATE #2: 29.21
FLOWRATE #3: 29.28
FLOWRATE #4: 29.27
FLOWRATE #5: 29.24

AVERAGE T100: 29.25

DRY T100

#1: 28.00
#2: 27.99
#3: 28.01
DRY AVG: 28.00

WET T100

#1: 28.39
#2: 28.37
#3: 28.45
WET AVG: 28.40

RESPONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.99 sec.

RECORD: ROOM TEMP (C) 24.5 ROOM REL. HUMID. (%) 46

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.43%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 636
GMT DATE: 8/14/10 LOCAL DATE: 8/14/10
GMT LAUNCH TIME: 18:21 LOCAL TIME: 13:21

BALLOON TYPE 1000 Gram: Kaymont Scientific Sales (none)

O₃ BACKGROUND (μ amps from F9 key): 0.017

VAISALA NUMBER (9 digit): 22911748

SURFACE PRESSURE: _____

SURFACE TEMP. (C): _____

SURFACE HUMIDITY: _____

SKY CONDITIONS: Sunny, partly cloudy

~ BURST PRESSURE (mb): _____ at 30.64 km

REMARKS: Bill Brown attached 200g tracker.

weighoff = _____ grams

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