

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

FLT # HU 833

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 10/3/2013 PUMP CURRENT: 97.62 30 MINUTES HI O₃ (v)
INITIALS: WTC/MLP PUMP PRESSURE: 11 5 MINUTE NO O₃ (v)
PUMP NUMBER: 23 25244 PUMP VACUUM: 28/20 in Hg

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 = 0.047 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 10/05/2013
INITIALS: MLP
Cathode solution date written on bottle: 239
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 = 0.056 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 28.68 sec
FLOWRATE #2: 28.71
FLOWRATE #3: 28.69
FLOWRATE #4: 28.68
FLOWRATE #5: 28.65

DRY T100
#1: 28.82
#2: 28.89
#3: 28.8
DRY AVG: 28.8
WET T100
#1: 29.37
#2: 29.37
#3: 29.4
WET AVG: 29.3

AVERAGE T100: 28.68

29.37
WET AVG: 29.3

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 21.97 sec.

RECORD: ROOM TEMP (C) 24.5 ROOM REL. HUMID. (%) 47

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.80%

DAY OF FLIGHT @ THE LAUNCH SITE. MLP

FLIGHT NUMBER: HU 833
GMT DATE: 10/05/2013 LOCAL DATE: 10/05/2013
GMT LAUNCH TIME: 1800:00 LOCAL TIME: 13:00:00

BALLOON TYPE 800 Gram: Kaymont Scientific Sales (v one) Hwoyee

O₃ BACKGROUND (μ amps from F9 key): 0.056

VAISALA NUMBER (9 digit): 21100
SURFACE PRESSURE: 993.9
SURFACE TEMP. (C): 30.4
SURFACE HUMIDITY: 50.3

SKY CONDITIONS: partly cloudy
light + variable wind

* BURST PRESSURE (mb): 30.17

REMARKS:

weighoff = 1700 grams

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