

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

FLT # 853

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 02/08/2014 PUMP CURRENT: 118.56 30 MINUTES HI O₃ (v)
 INITIALS: NLP PUMP PRESSURE: 710 5 MINUTE NO O₃ (v)
 PUMP NUMBER: 2225175 PUMP VACUUM: 20

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: = 0.245 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 02/22/2014
 INITIALS: NLP
 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= 0.065 μ amps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

DRY T100
 #1: 29.03
 #2: 29.03
 #3: 29.03
 DRY AVG: 29.03
WET T100
 #1: 29.33
 #2: 29.19
 #3: 29.26
 WET AVG: 29.26

RESONSE TIME

SWITCH TO NO O₃ AIR.
 RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 28.04 sec.
 RECORD: ROOM TEMP (C) 20.4 ROOM REL. HUMID. (%) 21
 RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 0.79%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 853
 GMT DATE: 02/22/2014 LOCAL DATE: 02/22/2014
 GMT LAUNCH TIME: 19:13 LOCAL TIME: 13:13

BALLOON TYPE 1200 Gram: Kaymont Scientific Sales (none) Hwoyee

O₃ BACKGROUND (μ amps from F9 key): _____

VAISALA NUMBER (9 digit): 21070
 SURFACE PRESSURE: 578 993.1
 SURFACE TEMP. (C): 57.0 57.3
 SURFACE HUMIDITY: 29.6

SKY CONDITIONS: Sunny w/a high near 66, South wind 5 to 10 mph
 ~ BURST PRESSURE (mb): 34.94
 ALT

REMARKS: _____

weighoff = 1700 grams

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