

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

FLT # 74 850

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 01/18/2014 PUMP CURRENT: 84.11 30 MINUTES HI O₃ (v)
INITIALS: NLP PUMP PRESSURE: >10 5 MINUTE NO O₃ (v)
PUMP NUMBER: 2224635 PUMP VACUUM: 18

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: = 0.54 μ amps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 02/01/2014 INITIALS: NLP
Cathode solution date written on bottle: 239
CHANGE CATHODE SOLUTION (3cc): (v)
CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)
RUN ON NO O₃ FOR 5 MINUTES: (v)
RECORD THE NO O₃ BACKGRND#1: BG1 = 0.035 μ amps
RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.32 sec
FLOWRATE #2: 29.38
FLOWRATE #3: 29.31
FLOWRATE #4: 29.43
FLOWRATE #5: 29.41
AVERAGE T100: 29.37

DRY T100
#1: 28.96
#2: 28.63
#3: 28.67
DRY AVG: 28.75

WET T100
#1: 29.23
#2: 29.20
#3: 29.16
WET AVG: 29.20

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 27.63 sec.

RECORD: ROOM TEMP (C) 19.8 ROOM REL. HUMID. (%) 18

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction. 1.57%

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 74 850
GMT DATE: 02/01/2014 LOCAL DATE: 02/01/2014
GMT LAUNCH TIME: 19:00 LOCAL TIME: 13:00

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

O₃ BACKGROUND (μ amps from F9 key): 0.035

VAISALA NUMBER (9 digit): 21378
SURFACE PRESSURE: 994.5
SURFACE TEMP. (C): 24
SURFACE HUMIDITY: 19.9

SKY CONDITIONS: _____
~ BURST PRESSURE (mb): 34.05

REMARKS: _____

weighoff = 1700 grams

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