

FLT # HU 843

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

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/16/2015
INITIALS: NLF
PUMP NUMBER: 2224588

PUMP CURRENT: 88.97
PUMP PRESSURE: >10
PUMP VACUUM: 20

30 MINUTES HI O₃
5 MINUTE NO O₃

ADD 3.0 CC CATHODE SOLUTION:
WAIT 2 MINUTES:
ADD 1.5 CC ANODE SOLUTION:
RUN 20 MINUTES ON NO O₃

Short the cell leads:
Add about 2.5 CC more Cathode Solution (2Z)
Place instrument inside plastic bag:
Store inside Styrofoam flight box:

Record the current after the 20 MINUTES ON NO O₃ = 85.41 ramps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/14/2013
INITIALS: NLF

Cathode solution date written on bottle: 039

CHANGE CATHODE SOLUTION (3cc):
CHANGE ANODE SOLUTION (1.5cc):
RUN ON NO O₃ FOR 5 MINUTES:
RECORD THE NO O₃ BACKGRND#1: BGI=0.052 ramps

T100 FLOWRATE TIMES:
FLOWRATE #1: 29.54 sec
FLOWRATE #2: 29.32
FLOWRATE #3: 29.41
FLOWRATE #4: 29.63
FLOWRATE #5: 29.73
AVERAGE T100: 29.524

DRY T100
#1: 29.21
#2: 29.18
#3: 29.17
DRY AVG: 29.19
WET T100
#1: 29.49
#2: 29.59
#3: 29.53
WET AVG: 29.54

RESPONSE TIME
SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 ramps: 29 sec.
RECORD: ROOM TEMP (C): 16.6
RECORD: ROOM REL. HUMID. (%) 31

RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 843

GMT DATE: 12/14/2013

GMT LAUNCH TIME: 19:01

LOCAL DATE: 12/14/2013
LOCAL TIME: 13:01

BALLOON TYPE: 1200 Gram

Scientific Sales (None) Huyee 800 g.

O₃ BACKGROUND (ramps from F9 key): 0.052

VAISALA NUMBER (9 digit): 21004

SURFACE PRESSURE: 584.2

SURFACE TEMP. (C): 11.8

SURFACE HUMIDITY: 92.4

SKY CONDITIONS: 20% chance of rain
Cloudy with a light near 53
West wind around 10 mph.
~ BURST PRESSURE (mb): 28.003

REMARKS:

weightoff = 1700 grams

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