

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 10/1/15
 INITIALS: PLWS
 PUMP#: 2228958
- Run zero air 10 minutes (v)
 - PUMP CURRENT: 88.38 (mA)
 - PUMP PRESSURE: 211 (psi)
 - DMT Press/vac: 27.20 (in Hg)
 - Bypass cell (v)
 - Add 5-6cc cathode (v)
 - 30 MINUTES HI O₃ (v)
 - 3 MINUTES NO O₃ (v)
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- DUMP CATHODE RINSE: (v)
 - ADD 3.0 CC FRESH CATHODE # (v)
 - ADD 1.5 CC ANODE SOLUTION: (v)
 - RUN 10 MINUTES on NO O₃ (v)
 - RECORD CURRENT BEFORE O₃: BG = 0.140 uA
 - RUN 10 MINS on 5 uA O₃ (v) - then switch to NO O₃ AIR.
 - RECORD: TIME TO DROP FROM 4 TO 1.5 uA: 30.06 sec.
 - Run sonde for 10 mins on NO O₃ (v)
 - RECORD CURRENT: BG = 0.204 uA
 - Short the cell leads: (v)
 - Intake tube stored in sonde frame: (v)
 - Place Sonde inside plastic bag: (v)
 - Store inside Styrofoam flight box: (v)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 10/17/15

- RUN 5 MINS on NO O₃ (v)
- RECORD CURRENT: 0.77 uamps
- RUN 5 MINS on 5 uamps O₃ (v) - then switch to NO O₃ AIR
- RECORD TIME TO DROP FROM 4 TO 1.5 uamps: 25.59 sec
- Short cell leads and Store in Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 10/17/15
 INITIALS: PLWS
- Cathode solution # or date written on bottle: 261
 - CHANGE CATHODE SOLUTION (3cc): (v)
 - CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
 - RUN ON NO O₃ FOR 10 MINUTES: (v)
 - RECORD THE NO O₃ BACKGRND#1: BG1 = 0.032 uamps
 - RUN ON 5 microamps of O₃ for 10 Minutes: (v)
 - SWITCH TO NO O₃ AIR
 - RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 uamps: 26.33 sec
 - RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 18.8, ROOM RH (%): 16
 Flowrate Correction: 2.64 (%)

FLOWRATE #1:	<u>29.17</u>	sec
FLOWRATE #2:	<u>29.21</u>	sec
FLOWRATE #3:	<u>29.23</u>	sec
FLOWRATE #4:	<u>29.16</u>	sec
FLOWRATE #5:	<u>29.15</u>	sec
AVERAGE T100:	<u>29.184</u>	sec

avg

Dry	<u>27.99</u>	<u>27.99</u>	<u>28.02</u>	<u>28.00</u>
Wet	<u>28.82</u>	<u>28.80</u>	<u>28.61</u>	<u>28.74</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: Hu939
 GMT DATE (YYMMDD): _____ LOCAL DATE: 10/17/15
 GMT LAUNCH TIME: _____ LOCAL TIME: 1:05 PM
 Operator Initials: PLWS
 BALLOON SIZE: 1200 Grams: _____ TOTEX _____ Hwoyee _____ PAWAN _____ (v one)
 PAY-OFF-WEIGHT: _____ Grams: _____ Burst Alt: _____ (km) Turn/Burst: _____

- O₃ sn: _____ O₃ CELL BACKGROUND (uamps): _____ O₃ Ventilation Holes: _____
 O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)
 Radiosonde sn: _____ Freq: _____ (MHz)
 NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

- SURFACE PRES: _____ (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)
 Sky Conditions: _____

REMARKS: _____