

DIGITAL OZONESONDE CHECKLIST

Seasons August 2013

FLT# HAR15080

INITIAL PREPARATION -7 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 7/30/15
 INITIALS: SN
 PUMP# (add x,y,z,R): 222449
- | | |
|--|--|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input type="checkbox"/> (✓) |
| 2. PUMP CURRENT: _____ | 6. Add 5-6cc cathode <input type="checkbox"/> (✓) |
| 3. PUMP PRESSURE: _____ | 7. 30 MINUTES HI O ₂ <input type="checkbox"/> (✓) |
| 4. ENSCI Press/vac: _____ | 8. 3 MINUTES NO O ₂ <input type="checkbox"/> (✓) |
-
- | | |
|---|--|
| 9. DUMP CATHODE RINSE: <input checked="" type="checkbox"/> (✓) | 16. Run sonde for 10 minutes on NO O ₂ AIR <input type="checkbox"/> (✓) |
| 10. ADD 3.0 CC FRESH CATHODE # <input checked="" type="checkbox"/> (✓) | 17. Short the cell leads: <input type="checkbox"/> (✓) |
| 11. ADD 1.5 CC ANODE SOLUTION: <input checked="" type="checkbox"/> (✓) | 18. Intake tube stored in sonde frame: <input type="checkbox"/> (✓) |
| 12. RUN 10 MINUTES on NO O ₂ <input type="checkbox"/> (✓) | 19. Place Instrument inside plastic bag: <input type="checkbox"/> (✓) |
| 13. RECORD CURRENT: BG = _____ μ amps | 20. Store inside Styrofoam flight box: <input type="checkbox"/> (✓) |
| 14. RUN 10 MINUTES on 5 μ amps O ₂ <input checked="" type="checkbox"/> (✓) - then switch to NO O ₂ AIR. | |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: _____ sec. | |

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL):

- DATE (LOCAL): _____
 INITIALS: _____
- | | |
|--|---|
| 1. Replace Cathode/Anode <input checked="" type="checkbox"/> (✓) | 6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: <u>27.67</u> sec |
| 2. RUN 5 MINS on NO O ₂ <input checked="" type="checkbox"/> (✓) | 7. RUN 5 MINS on NO O ₂ <input checked="" type="checkbox"/> (✓) |
| 3. RECORD CURRENT: <u>+00.06</u> μ amps | 8. Short cell leads <input checked="" type="checkbox"/> (✓) |
| 4. RUN 5 MINS on 5 μ amps O ₂ <input checked="" type="checkbox"/> (✓) | 9. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |
| 5. Switch to NO O ₂ AIR | |

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 7/31/15
 INITIALS: SN
- | | |
|---|--|
| 1. Cathode solution # or date written on bottle: <u>2</u> ✓ | T100 FLOWRATE TIMES: |
| 2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (✓) | ROOM TEMP (C): <u>19.7</u> , ROOM RH (%): <u>38%</u> |
| 3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No) | Flowrate Correction: <u>1.5</u> (%) |
| 4. RUN ON NO O ₂ FOR 10 MINUTES: <input checked="" type="checkbox"/> (✓) | FLOWRATE #1: <u>24.35</u> sec |
| 5. RECORD THE NO O ₂ BACKGRND#1: BG1 = <u>0.04</u> μ amps | FLOWRATE #2: <u>24.28</u> sec |
| 6. RUN ON 5 microamps of O ₂ for 10 Minutes: <input checked="" type="checkbox"/> (✓) | FLOWRATE #3: <u>24.34</u> sec |
| 7. SWITCH TO NO O ₂ AIR | FLOWRATE #4: <u>24.25</u> sec |
| 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: <u>26.31</u> sec | FLOWRATE #5: <u>24.31</u> sec |
| 9. RECORD: 5 - T100 FLOWRATE TIMES: | AVERAGE T100: <u>24.306</u> sec |

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: _____
 GMT DATE (YYMMDD): _____ LOCAL DATE: _____
 GMT LAUNCH TIME: _____ LOCAL TIME: _____
 Operator Initials: _____
 BALLOON SIZE: _____ Grams: TOTEX _____ Hwoyee (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km)
 O₂ sn: _____ O₂ CELL BACKGROUND (μ amps): _____
 O₂ Flowrate: _____ (sec) O₂ Flowrate Correction: _____ (%)
 Radiosonde s/n: _____ Freq: _____ (MHz)
 SURFACE PRES: _____ (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)
 Sky Conditions: _____
 REMARKS: _____