

Seascans August 2013

DIGITAL OZONESONDE CHECKLIST

FLY # HAR150805

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

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|-------------------------------------|--------------------------------------|---|
| DATE (LOCAL): _____ | 1. Run zero air 10 minutes _____ (✓) | 5. Bypass cell _____ (✓) |
| INITIALS: _____ | 2. PUMP CURRENT: _____ | 6. Add 5-6cc cathode _____ (✓) |
| PUMP# (add x,y,z,R): <u>2228724</u> | 3. PUMP PRESSURE: _____ | 7. 30 MINUTES HI O ₂ _____ (✓) |
| | 4. ENSCI Press/vac: _____ | 8. 3 MINUTES NO O ₂ _____ (✓) |
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- | | |
|--|---|
| 9. DUMP CATHODE RINSE: _____ (✓) | 16. Run sonde for 10 minutes on NO O ₂ AIR _____ (✓) |
| 10. ADD 3.0 CC FRESH CATHODE # _____ | 17. Short the cell leads: _____ (✓) |
| 11. ADD 1.5 CC ANODE SOLUTION: _____ (✓) | 18. Intake tube stored in sonde frame: _____ (✓) |
| 12. RUN 10 MINUTES on NO O ₂ _____ (✓) | 19. Place instrument inside plastic bag: _____ (✓) |
| 13. RECORD CURRENT: BG = _____ μamps | 20. Store inside Styrofoam flight box: _____ (✓) |
| 14. RUN 10 MINUTES on 5 μamps O ₂ _____ (✓) - then switch to NO O ₂ AIR. | |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: _____ sec. | |

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

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|---|---|
| 1. Replace Cathode/Anode _____ (✓) | 6. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: _____ sec |
| 2. RUN 5 MINS on NO O ₂ _____ (✓) | 7. RUN 5 MINS on NO O ₂ _____ (✓) |
| 3. RECORD CURRENT: _____ μamps | 8. Short cell leads _____ (✓) |
| 4. RUN 5 MINS on 5 μamps O ₂ _____ (✓) | 9. Store inside Styrofoam flight box: _____ (✓) |
| 5. Switch to NO O ₂ AIR | |

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 2015/08/04
INITIALS: JDP

73F T100 FLOWRATE TIMES:
 ROOM TEMP (C): 22.8, ROOM RH (%): 32
 Flowrate Correction: 22 (%)
 FLOWRATE #1: 24.66 sec
 FLOWRATE #2: 24.56 sec
 FLOWRATE #3: 24.47 sec
 FLOWRATE #4: 24.56 sec
 FLOWRATE #5: 24.63 sec
 AVERAGE T100: 24.556 sec

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|---|
| 1. Cathode solution # or date written on bottle: <u>002</u> |
| 2. CHANGE CATHODE SOLUTION (3cc): _____ (✓) |
| 3. CHANGE ANODE SOLUTION (1.5cc): _____ (Yes/No) |
| 4. RUN ON NO O ₂ FOR 10 MINUTES: _____ (✓) |
| 5. RECORD THE NO O ₂ BACKGRND#1: BGI = <u>0.02</u> μamps |
| 6. RUN ON 5 microamps of O ₂ for 10 Minutes: _____ (✓) |
| 7. SWITCH TO NO O ₂ AIR. |
| 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: <u>24.06</u> sec |
| 9. RECORD: 5 - T100 FLOWRATE TIMES: |

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 s/n: _____ O₂ CELL BACKGROUND (μamps): _____
 O₂ Flowrate: _____ (sec) O₂ Flowrate Correction: _____ (%)

Radiosonde s/n: _____ Freq: _____ (MHz)

SURFACE PRES: _____ (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____