

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT # HU 808

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 08/13/2013
 INITIALS: NLP
 PUMP# (add x,y,z,R): 2224635
- | | |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (v) | 5. Bypass cell <input checked="" type="checkbox"/> (v) |
| 2. PUMP CURRENT: <u>98.10</u> | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (v) |
| 3. PUMP PRESSURE: <u>>10</u> | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (v) |
| 4. ENSCI Press/vac: <u>26/19 in Hg</u> | 8. 3 MINUTES NO O ₃ <input checked="" type="checkbox"/> (v) |
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- | | |
|---|---|
| 9. DUMP CATHODE RINSE: <input checked="" type="checkbox"/> (v) | 16. Run sonde for 10 minutes on NO O ₃ AIR <input checked="" type="checkbox"/> (v) |
| 10. ADD 3.0 CC FRESH CATHODE # <input checked="" type="checkbox"/> (v) | 17. Short the cell leads: <input checked="" type="checkbox"/> (v) |
| 11. ADD 1.5 CC ANODE SOLUTION: <input checked="" type="checkbox"/> (v) | 18. Intake tube stored in sonde frame: <input checked="" type="checkbox"/> (v) |
| 12. RUN 10 MINUTES on NO O ₃ <input checked="" type="checkbox"/> (v) | 19. Place Instrument inside plastic bag: <input checked="" type="checkbox"/> (v) |
| 13. RECORD CURRENT: BG = 85.016 <u>0.225</u> μ amps | 20. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (v) |
| 14. RUN 10 MINUTES on 5 μ amps O ₃ <input checked="" type="checkbox"/> (v) - then switch to NO O ₃ AIR. | |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: <u>36.99</u> sec. | |

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 08/15/2013

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|--|---|
| 1. Replace Cathode/Anode <input checked="" type="checkbox"/> (v) | 6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: <u>24.01</u> sec |
| 2. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (v) | 7. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (v) |
| 3. RECORD CURRENT: <u>0.136</u> μ amps | 8. Short cell leads <input checked="" type="checkbox"/> (v) |
| 4. RUN 5 MINS on 5 μ amps O ₃ <input checked="" type="checkbox"/> (v) | 9. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (v) |
| 5. Switch to NO O ₃ AIR | |

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 08/19/2013
INITIALS: NLP

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.1, ROOM RH (%): 41
 Flowrate Correction: 1.11 (%)
 FLOWRATE #1: 28.79 sec
 FLOWRATE #2: 28.88 sec
 FLOWRATE #3: 29.08 sec
 FLOWRATE #4: 28.81 sec
 FLOWRATE #5: 28.85 sec
 *AVERAGE T100: 28.88 sec

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|---|
| 1. Cathode solution # or date written on bottle: <u>#238</u> |
| 2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (v) |
| 3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No) |
| 4. RUN ON NO O ₃ FOR 10 MINUTES: <input checked="" type="checkbox"/> (v) |
| 5. RECORD THE NO O ₃ BACKGRND#1: BG1 = <u>0.063</u> μ amps |
| 6. RUN ON 5 microamps of O ₃ for 10 Minutes: <input checked="" type="checkbox"/> (v) |
| 7. SWITCH TO NO O ₃ AIR. |
| 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: <u>23.13</u> sec |
| 9. RECORD: 5 - T100 FLOWRATE TIMES: |

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 808
 GMT DATE (YYMMDD): 08/19/2013 LOCAL DATE: 08/19/2013
 GMT LAUNCH TIME: 19:02 LOCAL TIME: 14:02
 Operator Initials: NLP
 BALLOON SIZE: 1000 Grams: TOTEX _____ Hyoyee (v one)
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 32.24 (km)

O₃ sn: 2224635 O₃ CELL BACKGROUND (μ amps): 0.063
 O₃ Flowrate: 28.88 (sec) O₃ Flowrate Correction: 1.11 (%)

Radiosonde s/n: 17917 Freq: 403 (MHz)

SURFACE PRES: 994.8 (hPa)
 SURFACE TEMP: 23°C (C)
 SURFACE RH: 77.8 (%)

Sky Conditions: Cloudy

REMARKS: