

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 7/17/14
 INITIALS: CLC
 PUMP#: 2826243
- | | |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓) |
| 2. PUMP CURRENT: <u>90.90</u> (mA) | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓) |
| 3. PUMP PRESSURE: <u>710</u> (psi) | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (✓) |
| 4. DMT Press/vac: <u>30 / 20</u> (in Hg) | 8. 3 MINUTES NO O ₃ <input checked="" type="checkbox"/> (✓) |
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9. DUMP CATHODE RINSE: (✓)
10. ADD 3.0 CC FRESH CATHODE # 244
11. ADD 1.5 CC ANODE SOLUTION: (✓)
12. RUN 10 MINUTES on NO O₃ 0.431 (✓) ✓
13. RECORD CURRENT BEFORE O₃: BG = 0.431 μA
14. RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 43.14 sec.
- | | |
|--|--|
| 16. Run sonde for 10 mins on NO O ₃ <input checked="" type="checkbox"/> (✓) | 17. RECORD CURRENT: BG = <u>.328</u> μA |
| 18. Short the cell leads: <input checked="" type="checkbox"/> (✓) | 19. Intake tube stored in sonde frame: <input checked="" type="checkbox"/> (✓) |
| 20. Place Sonde inside plastic bag: <input checked="" type="checkbox"/> (✓) | 21. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |

AFTER 1 WEEK: REPLACE SOLUTIONS:

- DATE (LOCAL): 7/29/14
- | | |
|--|--|
| 1. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (✓) | 3. RUN 5 MINS on 5 μamps O ₃ <input checked="" type="checkbox"/> (✓) - then switch to NO O ₃ AIR |
| 2. RECORD CURRENT: <u>.244</u> μamps | 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: <u>26.36</u> sec |
| | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 8-2-14
 INITIALS: CLC
- | | |
|---|---|
| 1. Cathode solution # or date written on bottle: <u>244</u> | <u>T100 FLOWRATE TIMES:</u> |
| 2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (✓) | ROOM TEMP (C): <u>24.1</u> , ROOM RH (%): <u>38</u> |
| 3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No) | Flowrate Correction: <u>1.2</u> (%) |
| 4. RUN ON NO O ₃ FOR 10 MINUTES: <u>0.72</u> (✓) (✓) | FLOWRATE #1: <u>29.00</u> sec |
| 5. RECORD THE NO O ₃ BACKGRND#1: BG1 = <u>0.072</u> μamps | FLOWRATE #2: <u>29.10</u> sec |
| 6. RUN ON 5 microamps of O ₃ for 10 Minutes: <input checked="" type="checkbox"/> (✓) | FLOWRATE #3: <u>28.96</u> sec |
| 7. SWITCH TO NO O ₃ AIR | FLOWRATE #4: <u>29.06</u> sec |
| 8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: <u>25.79</u> sec | FLOWRATE #5: <u>29.12</u> sec |
| 9. RECORD: 5 - T100 FLOWRATE TIMES: | AVERAGE T100: <u>29.048</u> sec |
- | | | | | |
|-----|-------|-------|-------|---------|
| Wet | 27.64 | 27.59 | 27.56 | 27.5967 |
| Dry | 27.45 | 27.14 | 27.24 | 27.2767 |

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HU877
- GMT DATE (YYMMDD): 8-2-14 LOCAL DATE: 8-2-14
- GMT LAUNCH TIME: 18:14 LOCAL TIME: 1:14
- Operator Initials: CLC
- BALLOON SIZE: 800 Grams: TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
- PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____
- O₃ sn: 2826243 O₃ CELL BACKGROUND (μamps): 0.072 O₃ Ventilation Holes: Yes
- O₃ Flowrate: 29.048 (sec) O₃ Flowrate Correction: 1.2 (%)
- Radiosonde sn: 26479 Freq: 403 (MHz)
- NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

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