

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

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| DATE (LOCAL): <u>9/2/2015</u> | 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓) |
| INITIALS: <u>NL</u> | 2. PUMP CURRENT: <u>90.52</u> (mA) | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓) |
| PUMP#: <u>2828742</u> | 3. PUMP PRESSURE: <u>>11</u> (psi) | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (✓) |
| | 4. DMT Press/vac: <u>26 / 19</u> (in Hg) | 8. 3 MINUTES NO O ₃ <input checked="" type="checkbox"/> (✓) |
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| 9. DUMP CATHODE RINSE: <input checked="" type="checkbox"/> (✓) | 16. Run sonde for 10 mins on NO O ₃ <input checked="" type="checkbox"/> (✓) |
| 10. ADD 3.0 CC FRESH CATHODE # <u>258</u> | 17. RECORD CURRENT: BG = <u>.248</u> μ A |
| 11. ADD 1.5 CC ANODE SOLUTION: <input checked="" type="checkbox"/> (✓) | 18. Short the cell leads: <input checked="" type="checkbox"/> (✓) |
| 12. RUN 10 MINUTES on NO O ₃ <input checked="" type="checkbox"/> (✓) | 19. Intake tube stored in sonde frame: <input checked="" type="checkbox"/> (✓) |
| 13. RECORD CURRENT BEFORE O ₃ : BG = <u>.233</u> μ A | 20. Place Sonde inside plastic bag: <input checked="" type="checkbox"/> (✓) |
| 14. RUN 10 MINS on 5 μ A O ₃ <input checked="" type="checkbox"/> (✓) - then switch to NO O ₃ AIR. | 21. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ A: <u>44.54</u> sec. | |

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 9/10/2015

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| 1. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (✓) | 3. RUN 5 MINS on 5 μ amps O ₃ <input checked="" type="checkbox"/> (✓) - then switch to NO O ₃ AIR |
| 2. RECORD CURRENT: <u>.115</u> μ amps | 4. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: <u>26.35</u> sec |
| | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/19/2015
INITIALS: NL

- Cathode solution # or date written on bottle: 258
- CHANGE CATHODE SOLUTION (3cc): (✓)
- CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
- RUN ON NO O₃ FOR 10 MINUTES: (✓)
- RECORD THE NO O₃ BACKGRND#1: BG1= .056 μ amps
- RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
- SWITCH TO NO O₃ AIR
- RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μ amps: 26.79 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): <u>23.1</u>	ROOM RH (%): <u>53</u>								
Flowrate Correction: <u>3.16</u> (%)									
FLOWRATE #1: <u>29.77</u> sec									
FLOWRATE #2: <u>29.73</u> sec									
FLOWRATE #3: <u>29.74</u> sec									
FLOWRATE #4: <u>29.77</u> sec									
FLOWRATE #5: <u>29.67</u> sec									
AVERAGE T100: <u>29.74</u> sec	Avg								
	<table border="1"> <tr> <td>27.88</td> <td>27.85</td> <td>27.95</td> <td>27.89</td> </tr> <tr> <td>Wet</td> <td>28.86</td> <td>28.77</td> <td>28.69</td> </tr> </table>	27.88	27.85	27.95	27.89	Wet	28.86	28.77	28.69
27.88	27.85	27.95	27.89						
Wet	28.86	28.77	28.69						

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 _____ PAWAN _____ (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: _____ Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: _____ O₃ CELL BACKGROUND (μ amps): _____ O₃ Ventilation Holes: _____
 O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)
 Radiosonde sn: 28962 Freq: 403 (MHz)

NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

SURFACE PRES: 990.7 mb (hPa)
 SURFACE TEMP: 32.1 (C)
 SURFACE RH: 42.9 (%)

Sky Conditions: _____
 REMARKS: _____