

January 2014 NEW

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 03/01/2014
 INITIALS: NLP
 PUMP# (add x,y,z,R): 2224680
- | | |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (v) | 5. Bypass cell <input checked="" type="checkbox"/> (v) |
| 2. PUMP CURRENT: <u>>10</u> | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (v) |
| 3. PUMP PRESSURE: <u>16</u> | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (v) |
| 4. ENSCI Press/vac: <u>30/19 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 = <u>0.241</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>43.65</u> sec. | |

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): _____

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

FLIGHT PREPARATION IN LAB. (Under 24 hours to launch)

DATE (LOCAL): 3/22/2014
INITIALS: WTC

- | |
|---|
| 1. Cathode solution # or date written on bottle: <u>239</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>0.043</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>28.87</u> sec |
| 9. RECORD: 5 - T100 FLOWRATE TIMES: |

T100 FLOWRATE TIMES:

ROOM TEMP (C): 20.9, ROOM RH (%): 25
 Flowrate Correction: 2.36 (%)

FLOWRATE #1: <u>29.39</u> sec	1 <u>28.87</u>
FLOWRATE #2: <u>29.42</u> sec	2 <u>28.84</u>
FLOWRATE #3: <u>29.50</u> sec	3 <u>28.68</u>
FLOWRATE #4: <u>29.53</u> sec	<u>28.79</u>
FLOWRATE #5: <u>29.44</u> sec	<u>Wet</u>
AVERAGE T100: <u>29.45</u> sec	1 <u>29.41</u>
	2 <u>29.50</u>
	3 <u>29.52</u>
	<u>29.47</u>

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O₃ Sonde TCO extrap: _____ (DU)
 O₃ Sonde TCO SBUV: _____ (DU)

FLIGHT NUMBER: Hu857
 GMT DATE (YYMMDD): 140322 LOCAL DATE: 140322
 GMT LAUNCH TIME: 17:58:48 LOCAL TIME: 12:58:48
 Operator Initials: WTC

BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee PAWAN _____ (v one)
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 31.5 (km) Turn/Burst: _____

O₃ sn: 2224680 O₃ CELL BACKGROUND (μ amps): 0.043 O₃ Ventilation Holes: (Y/N) Y
 O₃ Flowrate: 29.45 (sec) O₃ Flowrate Correction: 2.36 (%)
 Radiosonde #: 25395 Freq: 403 (MHZ) If Vais RS-80, Pressure offset written on bag: _____ (hPa)
 NOAA FPH sn: _____
 Other instruments: _____

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

Sky Conditions: _____
 REMARKS: _____