

U.S. DEPT. OF COMMERCE
NOAA Earth System Research Lab
DIGITAL OZONESONDE CHECKLIST

FLT # ~~HU9~~
HU957

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

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|--------------------------------|--|---|
| DATE (LOCAL): <u>2/19/2016</u> | 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓) |
| INITIALS: <u>JL</u> | 2. PUMP CURRENT: <u>104.79</u> (mA) | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓) |
| PUMP#: <u>2229234</u> | 3. PUMP PRESSURE: <u>711</u> (psi) | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (✓) |
| | 4. DMT Press/vac: <u>28 / 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>262</u> | 17. RECORD CURRENT: BG = <u>0.163</u> uA |
| 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>0.188</u> uA | 20. Place Sonde inside plastic bag: <input checked="" type="checkbox"/> (✓) |
| 14. RUN 10 MINS on 5 uA 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 uA: <u>41.37</u> sec. | |

AFTER 1 WEEK: REPLACE SOLUTIONS:

- | | | |
|------------------------------|--|--|
| DATE (LOCAL): <u>2/12/16</u> | 1. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (✓) | 3. RUN 5 MINS on 5 uamps O ₃ <input checked="" type="checkbox"/> (✓) - then switch to NO O ₃ AIR |
| | 2. RECORD CURRENT: <u>0.068</u> uamps | 4. RECORD TIME TO DROP FROM 4 TO 1.5 uamps: <u>25.64</u> sec |
| | | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 2/20/16
INITIALS: JL

- Cathode solution # or date written on bottle: 262
- 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 = 0.029 uamps
- RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
- SWITCH TO NO O₃ AIR
- RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 uamps: 24.05 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 20.8, ROOM RH (%): 40

Flowrate Correction: 3.48 (%)

- | | |
|--------------|------------------|
| FLOWRATE #1: | <u>30.07</u> sec |
| FLOWRATE #2: | <u>29.97</u> sec |
| FLOWRATE #3: | <u>30.16</u> sec |
| FLOWRATE #4: | <u>29.99</u> sec |
| FLOWRATE #5: | <u>30.04</u> sec |

AVERAGE T100: 30.04 sec

By	27.76	27.81	27.99	27.85
weZ	28.78	28.87	28.8	28.82

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 (uamps): _____

O₃ Ventilation Holes: _____

O₃ Flowrate: _____ (sec)

O₃ Flowrate Correction: _____ (%)

Radiosonde sn: 35882 Freq: _____ (MHz)

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

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____