

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

FLT# HU920

July 2, 2014

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

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|------------------------------|--|---|
| DATE (LOCAL): <u>5-20-15</u> | 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓) |
| INITIALS: <u>BW</u> | 2. PUMP CURRENT: <u>112.49</u> (mA) | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓) |
| PUMP#: <u>2728108</u> | 3. PUMP PRESSURE: <u>>10</u> (psi) | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (✓) |
| | 4. DMT Press/vac: <u>28 / 20</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 # <input checked="" type="checkbox"/> (✓) | 17. RECORD CURRENT: BG = <u>0.149</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>0.118</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>33.07</u> sec. | |

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 5-29-15

- | | |
|--|--|
| 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>0.050</u> uamps | 4. RECORD TIME TO DROP FROM 4 TO 1.5 uamps: <u>27.18</u> sec |
| | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6-6-15

INITIALS: BW

- | |
|---|
| 1. Cathode solution # or date written on bottle: <u>Dec 1, 2014</u> |
| 2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (✓) |
| 3. CHANGE ANODE SOLUTION (1.5cc): <u>Yes</u> (Yes/No) |
| 4. RUN ON NO O ₃ FOR 10 MINUTES: <input checked="" type="checkbox"/> (✓) |
| 5. RECORD THE NO O ₃ BACKGRND#1: BG1 = <u>0.025</u> uamps |
| 6. RUN ON 5 microamps of O ₃ for 10 Minutes: <input checked="" type="checkbox"/> (✓) |
| 7. SWITCH TO NO O ₃ AIR |
| 8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 uamps: <u>22.86</u> sec |
| 9. RECORD: 5 - T100 FLOWRATE TIMES: |

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.8, ROOM RH (%): 58

Flowrate Correction: 1.5 (%)

FLOWRATE #1: 30.02 sec

FLOWRATE #2: 30.03 sec

FLOWRATE #3: 30.05 sec

FLOWRATE #4: 30.09 sec

FLOWRATE #5: 30.09 sec

AVERAGE T100: 30.06 sec

	1	2	3	average
dry	28.21	28.35	28.18	28.25
wet	28.68	28.67	28.68	28.68

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU920

GMT DATE (YYMMDD): 150606

LOCAL DATE: 150606

GMT LAUNCH TIME: 6:05PM

LOCAL TIME: 1:05PM

Operator Initials: BW

BALLOON SIZE: 800 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: _____ Freq: _____ (MHz)

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

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____