

July 2, 2014

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

1117 14005  
H0881

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 8-21-14  
 INITIALS: BO WANG  
 PUMP#: 2810326
- |  |   |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓)                  |
| 2. PUMP CURRENT: <u>108.91</u> (mA)                                | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓)            |
| 3. PUMP PRESSURE: <u>710</u> (psi)                                 | 7. 30 MINUTES HI O <sub>3</sub> <input checked="" type="checkbox"/> (✓) |
| 4. DMT Press/vac: <u>26 1 21</u> (in Hg)                           | 8. 3 MINUTES NO O <sub>3</sub> <input checked="" type="checkbox"/> (✓)  |
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9. DUMP CATHODE RINSE:  (✓)
10. ADD 3.0 CC FRESH CATHODE #  (✓)
11. ADD 1.5 CC ANODE SOLUTION:  (✓)
12. RUN 10 MINUTES on NO O<sub>3</sub>  (✓)
13. RECORD CURRENT BEFORE O<sub>3</sub>: BG = 0.315 μA
14. RUN 10 MINS on 5 μA O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 4630 sec.
16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
17. RECORD CURRENT: BG = 2288 μA
18. Short the cell leads:  (✓)
19. Intake tube stored in sonde frame:  (✓)
20. Place Sonde inside plastic bag:  (✓)
21. Store inside Styrofoam flight box:  (✓)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 8-27-14

- |  |  |
|--|--|
| 1. RUN 5 MINS on NO O <sub>3</sub> <input checked="" type="checkbox"/> (✓) | 3. RUN 5 MINS on 5 μamps O <sub>3</sub> <input checked="" type="checkbox"/> (✓) - then switch to NO O <sub>3</sub> AIR |
| 2. RECORD CURRENT: <u>0.137</u> μamps                                      | 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: <u>30.41</u> sec   |
|  | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓)                         |

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 9-6-2014  
 INITIALS: Q. Onglyang
1. Cathode solution # or date written on bottle: Jan 13, 2014
2. CHANGE CATHODE SOLUTION (3cc):  (✓)
3. CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (✓)
5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.071 μamps
6. RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (✓)
7. SWITCH TO NO O<sub>3</sub> AIR
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 25.20 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:  
 ROOM TEMP (C): 24.0°C ROOM RH (%): 31%  
 Flowrate Correction: 1.8 (%)  
 FLOWRATE #1: 28.73 sec  
 FLOWRATE #2: 28.62 sec  
 FLOWRATE #3: 28.82 sec  
 FLOWRATE #4: 28.71 sec  
 FLOWRATE #5: 28.90 sec  
 AVERAGE T100: 28.758 sec  
 dry 27.33 27.33 27.19 27.283  
 wet 27.88 27.61 27.78 27.77  
 78 27.75

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: H0881
- GMT DATE (YYMMDD): \_\_\_\_\_ LOCAL DATE: \_\_\_\_\_
- GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_
- Operator Initials: BW
- BALLOON SIZE: 800 Grams: \_\_\_\_\_ TOTEX  Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (✓ one)
- PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: \_\_\_\_\_ Burst Alt: \_\_\_\_\_ (km) Turn/Burst: \_\_\_\_\_
- O<sub>3</sub> sn: \_\_\_\_\_ O<sub>3</sub> CELL BACKGROUND (μamps): \_\_\_\_\_ O<sub>3</sub> Ventilation Holes: \_\_\_\_\_
- O<sub>3</sub> Flowrate: \_\_\_\_\_ (sec) O<sub>3</sub> 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: \_\_\_\_\_