

March 2014 NEW

**DIGITAL OZONESONDE CHECKLIST**

**INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.**

- DATE (LOCAL): 7/31/14  
 INITIALS: CLC  
 PUMP# (add x,y,z,R): 2E26387
- |  |   |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (v) | 5. Bypass cell <input checked="" type="checkbox"/> (v)                  |
| 2. PUMP CURRENT: <u>87.20</u>                                      | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (v)            |
| 3. PUMP PRESSURE: <u>210</u>                                       | 7. 30 MINUTES HI O <sub>3</sub> <input checked="" type="checkbox"/> (v) |
| 4. ENSCI Press/vac: <u>29.0/28.9</u>                               | 8. 3 MINUTES NO O <sub>3</sub> <input checked="" type="checkbox"/> (v)  |
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9. DUMP CATHODE RINSE:  (v)
10. ADD 3.0 CC FRESH CATHODE # 244
11. ADD 1.5 CC ANODE SOLUTION:  (v)
12. RUN 10 MINUTES on NO O<sub>3</sub>  (v)
13. RECORD CURRENT: BG = 0.246 μamps
14. RUN 10 MINUTES on 5 μamps O<sub>3</sub>  (v) - then switch to NO O<sub>3</sub> AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: 35.10 sec.
16. Run sonde for 10 minutes on NO O<sub>3</sub> AIR  (v)
17. Short the cell leads:  (v)
18. Intake tube stored in sonde frame:  (v)
19. Place Instrument inside plastic bag:  (v)
20. Store inside Styrofoam flight box:  (v)

**AFTER 1 WEEK: REPLACE SOLUTIONS:**

- DATE (LOCAL): 8-6-14
1. RUN 5 MINS on NO O<sub>3</sub>  (v)
2. RECORD CURRENT: 0.111 μamps
3. RUN 5 MINS on 5 μamps O<sub>3</sub>  (v) - then switch to NO O<sub>3</sub> AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 24.14 sec
5. Short cell leads and Store in Styrofoam flight box:  (v)

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

DATE (LOCAL): 8-16-14  
 INITIALS: CLC

1. Cathode solution # or date written on bottle: ~~8-16-14~~ 244
2. CHANGE CATHODE SOLUTION (3cc):  (v)
3. CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)
4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (v)
5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.045 μamps
6. RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)
7. SWITCH TO NO O<sub>3</sub> AIR.
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 24.40 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.0, ROOM RH (%): 34

Flowrate Correction: 1.4 (%)

FLOWRATE #1: 28.99 sec

FLOWRATE #2: 29.05 sec

FLOWRATE #3: 29.00 sec

FLOWRATE #4: 28.96 sec

FLOWRATE #5: 28.95 sec

AVERAGE T100: 28.99 sec

	<u>27.64</u>	<u>27.70</u>	<u>27.60</u>	<u>27.6467</u>
Wet				
Dry	<u>27.22</u>	<u>27.31</u>	<u>27.25</u>	<u>27.2733</u>

**DAY OF FLIGHT @ THE LAUNCH SITE.**

**Results: O<sub>3</sub> Sonde TCO extrap: \_\_\_\_\_ (DU)**

FLIGHT NUMBER: HU 878  
 GMT DATE (YYMMDD): 8/16/14  
 GMT LAUNCH TIME: 6:00  
 Operator Initials: CLC

LOCAL DATE: 8/16/14  
 LOCAL TIME: 1:00

BALLOON SIZE: 800 Grams: TOTEX  Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (v one)  
 PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: Burst Alt: \_\_\_\_\_ (km) Turn/Burst: \_\_\_\_\_

O<sub>3</sub> sn: 2E26387 O<sub>3</sub> CELL BACKGROUND (μamps): 0.045 O<sub>3</sub> Ventilation Holes: (Y/N) Y  
 O<sub>3</sub> Flowrate: 28.99 (sec) O<sub>3</sub> Flowrate Correction: 1.4 (%)

Radiosonde #: 26471 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: \_\_\_\_\_