

*Before new SUGSONDE*

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

1. BYPASS CELL  (✓)  
 2. ADD 5-6cc CATHODE  (✓)  
 3. RUN ON HI O<sub>3</sub> FOR 30 MIN  (✓)  
 4. PUMP PRESSURE: >10 (psi)  
 5. PUMP CURRENT: 107.21 (mA)  
 6. EN-SCI Press/Vac: 301.21 (in Hg)  
 7. RUN ON NO O<sub>3</sub> FOR 3 MIN  (✓)  
 8. DUMP CATHODE RINSE  (✓)
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9. ADD 3.0 CC FRESH CATHODE: 262 (#)  
 10. ADD 1.5 CC ANODE SOLUTION  (✓)  
 11. RUN ON NO O<sub>3</sub> FOR 10 MIN  (✓)  
 12. RECORD CURRENT BG = 0.405 μA  
 13. RUN ON 5 μA O<sub>3</sub> FOR 10 MIN  (✓)  
 14. SWITCH TO NO O<sub>3</sub> AIR  (✓)
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15. RECORD TIME TO DROP FROM 4 TO 1.5 μA: 47.05 (s)  
 16. RUN ON NO O<sub>3</sub> FOR 10 MIN  (✓)  
 17. RECORD CURRENT BG = 0.316 μA  
 18. SHORT CELL LEADS, STORE INTAKE TUBE  (✓)  
 20. PLACE OZONESONDE IN PLASTIC BAG  (✓)  
 20. STORE IN STYROFOAM BOX  (✓)

**INTERMEDIATE PREPARATION 3-7 DAYS BEFORE FLIGHT**

- DATE (LOCAL): 27 Jul 16  
 1. REPLACE BOTH SOLUTIONS  (✓)  
 2. RUN ON NO O<sub>3</sub> FOR 10 MIN  (✓)  
 3. RECORD CURRENT: 0.73 μA  
 4. RUN ON 5 μA O<sub>3</sub> FOR 10 MINS  (✓)  
 5. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 26.65 sec  
 6. RUN ON NO O<sub>3</sub> FOR 10 MIN RECORD CURRENT BG = 0.180 μA  
 7. SHORT CELL LEADS AND STORE IN STYROFOAM BOX:  (✓)

**FLIGHT PREPARATION IN LAB**

- DATE (LOCAL): 7/30/16 INITIALS: MG  
 1. CATHODE SOLUTION # ON BOTTLE: 262  
 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 CURRENT I<sub>B0</sub> = 0.033 μA  
 6. RUN ON 5 μA O<sub>3</sub> FOR 10 Minutes:  (✓)  
 7. SWITCH TO NO O<sub>3</sub> AIR  (✓)  
 8. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 21.93 sec  
 9. RUN ON NO O<sub>3</sub> FOR 10 MINUTES RECORD I<sub>B1</sub> = 0.072 μA  
 10. RECORD: 5 - T100 FLOWRATE TIMES  
 11. IF BG CURRENT > 0.04 μA, WAIT ADDITIONAL 5 MIN  
 12. RECORD CURRENT I<sub>B2</sub> = 0.042 μA
- T100 FLOWRATE TIMES:  
 ROOM TEMP (C): 25.2, ROOM RH (%): 44  
 SAMPLING AIR RH (%): \_\_\_\_\_, PUMP TEMP (C): \_\_\_\_\_  
 FLOWRATE CORRECTION (%): 0.8  
 FLOWRATE #1: 27.49 sec  
 FLOWRATE #2: 27.43 sec  
 FLOWRATE #3: 27.47 sec  
 FLOWRATE #4: 27.53 sec  
 FLOWRATE #5: 27.67 sec  
 AVERAGE T100: 27.52 sec
- SONDE = \_\_\_\_\_ ppbv @ CALIB = \_\_\_\_\_ ppbv

**DAY OF FLIGHT AT THE LAUNCH SITE**

- OPERATOR INITIALS: MG  
 FLIGHT NUMBER: HU980  
 GMT DATE (YYMMDD): \_\_\_\_\_ LOCAL DATE: 7/30/16  
 GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: 1:20pm
- |     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Dry | 30.04 | 30.09 | 29.77 | 29.9  |
| Wet | 30.26 | 30.05 | 30.1  | 30.21 |
|     | 1     | 2     | 3     | Avg   |
- BALLOON SIZE: 1200 Grams: \_\_\_\_\_ TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ PAWAN  (✓ one)  
 PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: \_\_\_\_\_ Burst Alt: 36.1 (km) Turn/Burst: \_\_\_\_\_  
 Davis Unwinder: \_\_\_\_\_ (120ft) or: \_\_\_\_\_ (170ft) Parachute: \_\_\_\_\_ (orange 4ft dia. Circular plastic chute) or: \_\_\_\_\_ (other)  
 Ozonesonde Serial #: \_\_\_\_\_ Ozonesonde BG (I<sub>B2</sub>): \_\_\_\_\_ (μA) O<sub>3</sub> Ventilation Holes: \_\_\_\_\_  
 Ozonesonde Flowrate: \_\_\_\_\_ (sec) Ozonesonde Flowrate Correction: \_\_\_\_\_ (%)
- Radiosonde 1 sn: 4260R Freq: \_\_\_\_\_ (MHz) Location: Attached to O<sub>3</sub> Sonde:  (✓), OTHER: \_\_\_\_\_  
 Radiosonde 2 sn: \_\_\_\_\_ Freq: \_\_\_\_\_ (MHz) Location: 3ft boom: \_\_\_\_\_, Main Package: \_\_\_\_\_, Below: \_\_\_\_\_ (ft)

- NOAA FPH sn: \_\_\_\_\_ Other instruments: \_\_\_\_\_
- SURFACE PRES: \_\_\_\_\_ (hPa) SURFACE WIND SPEED: \_\_\_\_\_ (m/s), W/S HEIGHT: \_\_\_\_\_ (m)  
 SURFACE TEMP: \_\_\_\_\_ (C) SURFACE WIND DIR: \_\_\_\_\_ (deg)  
 SURFACE RH: \_\_\_\_\_ (%) PTU300 lab Pres for RS-92 Offset: \_\_\_\_\_ (hPa)
- Sky Conditions: \_\_\_\_\_
- REMARKS: \_\_\_\_\_