

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 5/5/2014  
 INITIALS: WTC  
 PUMP# (add x,y,z,R): 2224660
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|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓)                  |
| 2. PUMP CURRENT: <u>96.71</u>                                      | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓)            |
| 3. PUMP PRESSURE: <u>11/16</u>                                     | 7. 30 MINUTES HI O <sub>3</sub> <input checked="" type="checkbox"/> (✓) |
| 4. ENSCI Press/vac: <u>30/20 in Hg</u>                             | 8. 3 MINUTES NO O <sub>3</sub> <input checked="" type="checkbox"/> (✓)  |
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- |  |   |
|--|---|
| 9. DUMP CATHODE RINSE: <input checked="" type="checkbox"/> (✓)   | 16. Run sonde for 10 minutes on NO O <sub>3</sub> AIR <input checked="" type="checkbox"/> (✓) |
| 10. ADD 3.0 CC FRESH CATHODE # <input checked="" type="checkbox"/> (✓)   | 17. Short the cell leads: <input checked="" type="checkbox"/> (✓)                             |
| 11. ADD 1.5 CC ANODE SOLUTION: <input checked="" type="checkbox"/> (✓)   | 18. Intake tube stored in sonde frame: <input checked="" type="checkbox"/> (✓)                |
| 12. RUN 10 MINUTES on NO O <sub>3</sub> <input checked="" type="checkbox"/> (✓)  | 19. Place Instrument inside plastic bag: <input checked="" type="checkbox"/> (✓)              |
| 13. RECORD CURRENT: BG = <u>0.244</u> μamps  | 20. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (✓)                |
| 14. RUN 10 MINUTES on 5 μamps O <sub>3</sub> <input checked="" type="checkbox"/> (✓) - then switch to NO O <sub>3</sub> AIR. |   |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: <u>41.55</u> sec.  |   |

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 5/12/2014

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|--|--|
| 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>0.108</u> μamps                                      | 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: <u>33.07</u> sec   |
|  | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓)                         |

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

DATE (LOCAL): 5/17/14  
INITIALS: CC

T100 FLOWRATE TIMES:

ROOM TEMP (C): 21.6, ROOM RH (%): 38%

Flowrate Correction: 2.01 (%)

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|--------------------------------|--------------|
| FLOWRATE #1: <u>29.19</u> sec  | <u>Wet</u>   |
| FLOWRATE #2: <u>29.17</u> sec  | <u>29.47</u> |
| FLOWRATE #3: <u>29.07</u> sec  | <u>29.47</u> |
| FLOWRATE #4: <u>29.14</u> sec  | <u>29.43</u> |
| FLOWRATE #5: <u>29.18</u> sec  | <u>Dry</u>   |
| AVERAGE T100: <u>29.15</u> sec | <u>28.87</u> |
|                                | <u>28.88</u> |

Wet avg = 29.46  
Dry avg = 28.88

- |   |
|---|
| 1. Cathode solution # or date written on bottle: <u>239</u>                                     |
| 2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (✓)                       |
| 3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No)                  |
| 4. RUN ON NO O <sub>3</sub> FOR 10 MINUTES: <input checked="" type="checkbox"/> (✓)             |
| 5. RECORD THE NO O <sub>3</sub> BACKGRND#1: BG1= <u>.046</u> μamps                              |
| 6. RUN ON 5 microamps of O <sub>3</sub> for 10 Minutes: <input checked="" type="checkbox"/> (✓) |
| 7. SWITCH TO NO O <sub>3</sub> AIR.   |
| 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: <u>27.28</u> sec                               |
| 9. RECORD: 5 - T100 FLOWRATE TIMES:   |

DAY OF FLIGHT @ THE LAUNCH SITE.

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

FLIGHT NUMBER: HU866

GMT DATE (YYMMDD): 140517

LOCAL DATE: 140517

GMT LAUNCH TIME: 18:13

LOCAL TIME: 13:13

Operator Initials: CC

BALLOON SIZE: 1000 Grams: TOTEX \_\_\_\_\_ Hwoyee  PAWAN \_\_\_\_\_ (✓ one)

PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: Burst Alt: 26 (km) Turn/Burst: \_\_\_\_\_

O<sub>3</sub> sn: 2224660 O<sub>3</sub> CELL BACKGROUND (μamps): 0.046 O<sub>3</sub> Ventilation Holes: (Y/N) Y

O<sub>3</sub> Flowrate: 29.15 (sec) O<sub>3</sub> Flowrate Correction: 2.01 (%)

Radiosonde #: 25402 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: \_\_\_\_\_