

Seacions August 2013

**INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.**

- DATE (LOCAL): 8/22/2013  
 INITIALS: WTC  
 PUMP# (add x,y,z,R): 222250
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|--|--|
| 1. Run zero air 10 minutes: <u>2</u> (✓) | 5. Bypass cell: <u>✓</u> (✓)                   |
| 2. PUMP CURRENT: <u>96.79</u>            | 6. Add 5-6cc cathode: <u>✓</u>                 |
| 3. PUMP PRESSURE: <u>11</u>              | 7. 30 MINUTES HI O <sub>3</sub> : <u>✓</u> (✓) |
| 4. ENSCI Press/vac: <u>30/21 lbtg</u>    | 8. 3 MINUTES NO O <sub>3</sub> : <u>✓</u> (✓)  |
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9. DUMP CATHODE RINSE: ✓ (✓)
- |   |   |
|---|---|
| 10. ADD 3.0 CC FRESH CATHODE # <u>✓</u>   | 16. Run sonde for 10 minutes on NO O <sub>3</sub> AIR: <u>✓</u> (✓) |
| 11. ADD 1.5 CC ANODE SOLUTION: <u>✓</u> (✓)   | 17. Short the cell leads: <u>✓</u> (✓)                              |
| 12. RUN 10 MINUTES on NO O <sub>3</sub> : <u>✓</u> (✓)  | 18. Intake tube stored in sonde frame: <u>✓</u> (✓)                 |
| 13. RECORD CURRENT: BG = <u>0.108</u> μamps   | 19. Place Instrument inside plastic bag: <u>✓</u> (✓)               |
| 14. RUN 10 MINUTES on 5 μamps O <sub>3</sub> : <u>✓</u> (✓) - then switch to NO O <sub>3</sub> AIR. | 20. Store inside Styrofoam flight box: <u>✓</u> (✓)                 |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: <u>41.29</u> sec.                                     |   |

**2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 08/26/2013**

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|---|--|
| 1. Replace Cathode/Anode: <u>✓</u> (✓)                    | 6. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: <u>25.77</u> sec |
| 2. RUN 5 MINS on NO O <sub>3</sub> : <u>✓</u> (✓)         | 7. RUN 5 MINS on NO O <sub>3</sub> : <u>✓</u> (✓)            |
| 3. RECORD CURRENT: <u>0.111</u> μamps                     | 8. Short cell leads: <u>✓</u> (✓)                            |
| 4. RUN 5 MINS on 5 μamps O <sub>3</sub> : <u>22.1</u> (✓) | 9. Store inside Styrofoam flight box: <u>✓</u> (✓)           |
| 5. Switch to NO O <sub>3</sub> AIR                        |  |

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 08/28/2013  
INITIALS: NLP

**T100 FLOWRATE TIMES:**

ROOM TEMP (C): 24.2, ROOM RH (%): 41  
 Flowrate Correction: 1.42 (%)

FLOWRATE #1:	<u>29.25</u> sec
FLOWRATE #2:	<u>29.29</u> sec
FLOWRATE #3:	<u>29.28</u> sec
FLOWRATE #4:	<u>29.23</u> sec
FLOWRATE #5:	<u>29.24</u> sec
<b>* AVERAGE T100:</b>	<u>29.26</u> sec

- |  |
|--|
| 1. Cathode solution # or date written on bottle: <u>238</u>          |
| 2. CHANGE CATHODE SOLUTION (3cc): <u>✓</u> (✓)                       |
| 3. CHANGE ANODE SOLUTION (1.5cc): <u>✓</u> (Yes/No)                  |
| 4. RUN ON NO O <sub>3</sub> FOR 10 MINUTES: <u>✓</u> (✓)             |
| 5. RECORD THE NO O <sub>3</sub> BACKGRND#1: BG1 = <u>0.034</u> μamps |
| 6. RUN ON 5 microamps of O <sub>3</sub> for 10 Minutes: <u>✓</u> (✓) |
| 7. SWITCH TO NO O <sub>3</sub> AIR.                                  |
| 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: <u>23.12</u> sec    |
| 9. RECORD: 5 - T100 FLOWRATE TIMES:                                  |

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

FLIGHT NUMBER: HU 816  
 GMT DATE (YYMMDD): 08/28/2013 LOCAL DATE: 08/28/2013  
 GMT LAUNCH TIME: 18:57 LOCAL TIME: 13:57  
 Operator Initials: NLP

BALLOON SIZE: <u>1000</u> Grams:	TOTEX _____ Hwoyee <u>✓</u> (✓ one)
PAY-OFF-WEIGHT: <u>1700</u> Grams:	Burst Alt: <u>29,59</u> (km)

O<sub>3</sub> sn: 20995 O<sub>3</sub> CELL BACKGROUND (μamps): 0.034  
 O<sub>3</sub> Flowrate: 29.26 (sec) O<sub>3</sub> Flowrate Correction: 1.42 (%)

Radiosonde s/n: 2222250 Freq: 403 (MHz)

SURFACE PRES: 993.6 (hPa)  
 SURFACE TEMP: 30 (C)  
 SURFACE RH: 51 (%)

*per NOAA weather*

Sky Conditions: Mostly sunny, with a high near 90, NW wind around 5 mph  
 REMARKS: \_\_\_\_\_