

July 2, 2014

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

- DATE (LOCAL): 8/5/15  
INITIALS: NL  
PUMP#: 2228723
- |  |   |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓)                  |
| 2. PUMP CURRENT: <u>93.18</u> (mA)                                 | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓)            |
| 3. PUMP PRESSURE: <u>78</u> (psi)                                  | 7. 30 MINUTES HI O <sub>3</sub> <input checked="" type="checkbox"/> (✓) |
| 4. DMT Press/vac: <u>32/21</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 # 258
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 = .278  $\mu$ A
14. RUN 10 MINS on 5  $\mu$ A O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5  $\mu$ A: 37.63 sec.
16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
17. RECORD CURRENT: BG = .238  $\mu$ A
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): 8/12/15**

- |  |   |
|--|---|
| 1. RUN 5 MINS on NO O <sub>3</sub> <input checked="" type="checkbox"/> (✓) | 3. RUN 5 MINS on 5 $\mu$ amps O <sub>3</sub> <input checked="" type="checkbox"/> (✓) - then switch to NO O <sub>3</sub> AIR |
| 2. RECORD CURRENT: <u>.089</u> $\mu$ amps                                  | 4. RECORD TIME TO DROP FROM 4 TO 1.5 $\mu$ amps: <u>24.68</u> sec   |
|  | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓)                              |

**FLIGHT PREPARATION IN LAB.**

- DATE (LOCAL): 8/22/15  
INITIALS: NL
- |   |   |
|---|---|
| 1. Cathode solution # or date written on bottle: <u>258</u>                                     | <i>T100 FLOWRATE TIMES:</i>                         |
| 2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (✓)                       | ROOM TEMP (C): <u>26.1</u> , ROOM RH (%): <u>60</u> |
| 3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No)                  | Flowrate Correction: <u>2.35</u> (%)                |
| 4. RUN ON NO O <sub>3</sub> FOR 10 MINUTES: <input checked="" type="checkbox"/> (✓)             | FLOWRATE #1: <u>27.63</u> sec                       |
| 5. RECORD THE NO O <sub>3</sub> BACKGRND#1: BG1= <u>.025</u> $\mu$ amps                         | FLOWRATE #2: <u>27.58</u> sec                       |
| 6. RUN ON 5 microamps of O <sub>3</sub> for 10 Minutes: <input checked="" type="checkbox"/> (✓) | FLOWRATE #3: <u>27.57</u> sec                       |
| 7. SWITCH TO NO O <sub>3</sub> AIR  | FLOWRATE #4: <u>27.69</u> sec                       |
| 8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 $\mu$ amps: <u>22.56</u> sec                        | FLOWRATE #5: <u>27.68</u> sec                       |
| 9. RECORD: 5 - T100 FLOWRATE TIMES:   | AVERAGE T100: <u>27.63</u> sec Avg                  |
- |  |     |       |       |       |       |
|--|-----|-------|-------|-------|-------|
|  | Dry | 28.04 | 28.08 | 28.13 | 28.08 |
|  | Wet | 28.75 | 28.73 | 28.75 | 28.74 |

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

- FLIGHT NUMBER: H0931  
GMT DATE (YYMMDD): 8/22/15 LOCAL DATE: 8/22/15  
GMT LAUNCH TIME: 1800 LOCAL TIME: 1800  
Operator Initials: NL
- |                                  |                             |                     |
|----------------------------------|-----------------------------|---------------------|
| BALLOON SIZE: <u>1000</u> Grams: | TOTEX _____ Hwoyee _____    | PAWAN _____ (✓ one) |
| PAY-OFF-WEIGHT: _____ Grams:     | Burst Alt: <u>30.1</u> (km) | Turn/Burst: _____   |
- O<sub>3</sub> sn: 2228723 O<sub>3</sub> CELL BACKGROUND ( $\mu$ amps): .025 O<sub>3</sub> Ventilation Holes: yes  
O<sub>3</sub> Flowrate: 27.53 (sec) O<sub>3</sub> Flowrate Correction: 2.35 (%)  
Radiosonde sn: 36161 Freq: 403 (MHz)
- NOAA FPH sn: \_\_\_\_\_ (if using Frost Point Hygrometer.)
- SURFACE PRES: 993.2 (hPa)  
SURFACE TEMP: 31.3 (C)  
SURFACE RH: 59.7 (%)
- Sky Conditions: Clear
- REMARKS: \_\_\_\_\_