

July 2, 2014

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

- DATE (LOCAL): 10/18/2015  
INITIALS: ML  
PUMP#: 2270235
- |  |   |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓)                  |
| 2. PUMP CURRENT: <u>10.73</u> (mA)                                 | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓)            |
| 3. PUMP PRESSURE: <u>211</u> (psi)                                 | 7. 30 MINUTES HI O <sub>3</sub> <input checked="" type="checkbox"/> (✓) |
| 4. DMT Press/vac: <u>25.19</u> (in Hg)                             | 8. 3 MINUTES NO O <sub>3</sub> <input checked="" type="checkbox"/> (✓)  |
- 
9. DUMP CATHODE RINSE:  (✓)
10. ADD 3.0 CC FRESH CATHODE #  (✓)
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 = 0.257  $\mu$ 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: 39.16 sec.
16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
17. RECORD CURRENT: BG = 0.250  $\mu$ 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): 10/15/15**

- |  |   |
|--|---|
| 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>0.110</u> $\mu$ amps                                 | 4. RECORD TIME TO DROP FROM 4 TO 1.5 $\mu$ amps: <u>27.64</u> sec   |
|  | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓)                              |

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 10/24/2015

INITIALS: BW

1. Cathode solution # or date written on bottle: Sept 9, 2015
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 THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.044  $\mu$ amps
6. RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (✓)
7. SWITCH TO NO O<sub>3</sub> AIR
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 25.47 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.6, ROOM RH (%): 50

Flowrate Correction: 3.9 (%)

FLOWRATE #1: 29.35 sec

FLOWRATE #2: 29.29 sec

FLOWRATE #3: 29.42 sec

FLOWRATE #4: 29.40 sec

FLOWRATE #5: 29.33 sec

AVERAGE T100: 29.36 sec

|     | 1     | 2     | 3     | Average |
|-----|-------|-------|-------|---------|
| dry | 27.17 | 27.44 | 27.42 | 27.34   |
| wet | 28.41 | 28.17 | 28.55 | 28.40   |

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

FLIGHT NUMBER: HU940

GMT DATE (YYMMDD): 151024

LOCAL DATE: 151024

GMT LAUNCH TIME: 6:00 PM

LOCAL TIME: 1:00 PM

Operator Initials: BW

BALLOON SIZE: 800 Grams:

TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_

PAWAN \_\_\_\_\_ (✓ one)

PAY-OFF-WEIGHT: \_\_\_\_\_ Grams:

Burst Alt: \_\_\_\_\_ (km)

Turn/Burst: \_\_\_\_\_

O<sub>3</sub> sn: \_\_\_\_\_

O<sub>3</sub> CELL BACKGROUND ( $\mu$ amps): \_\_\_\_\_

O<sub>3</sub> Ventilation Holes: \_\_\_\_\_

O<sub>3</sub> Flowrate: \_\_\_\_\_ (sec)

O<sub>3</sub> Flowrate Correction: \_\_\_\_\_ (%)

Radiosonde sn: \_\_\_\_\_ Freq: \_\_\_\_\_ (MHz)

NOAA FPH sn: \_\_\_\_\_ (if using Frost Point Hygrometer.)

SURFACE PRES: \_\_\_\_\_ (hPa)

SURFACE TEMP: \_\_\_\_\_ (C)

SURFACE RH: \_\_\_\_\_ (%)

Sky Conditions: \_\_\_\_\_

REMARKS: \_\_\_\_\_