

July 2, 2014

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

- DATE (LOCAL): 1-29-15  
INITIALS: CLC  
PUMP#: 2222451
- |  |   |
|--|---|
| 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (v) | 5. Bypass cell <input checked="" type="checkbox"/> (v)                  |
| 2. PUMP CURRENT: <u>86.12</u> (mA)                                 | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (v)            |
| 3. PUMP PRESSURE: <u>&gt;8</u> (psi)                               | 7. 30 MINUTES HI O <sub>3</sub> <input checked="" type="checkbox"/> (v) |
| 4. DMT Press/vac: <u>26 / 20</u> (in Hg)                           | 8. 3 MINUTES NO O <sub>3</sub> <input checked="" type="checkbox"/> (v)  |
- 
9. DUMP CATHODE RINSE:  (v)

10. ADD 3.0 CC FRESH CATHODE # 251

11. ADD 1.5 CC ANODE SOLUTION:  (v)

12. RUN 10 MINUTES on NO O<sub>3</sub>  (v) *← air pump was off.*

13. RECORD CURRENT BEFORE O<sub>3</sub>: BG = .316 μA

14. RUN 10 MINS on 5 μA O<sub>3</sub>  (v) - then switch to NO O<sub>3</sub> AIR.

15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 34.67 sec.

16. Run sonde for 10 mins on NO O<sub>3</sub>  (v)

17. RECORD CURRENT: BG = .108 uA

18. Short the cell leads:  (v)

19. Intake tube stored in sonde frame:  (v)

20. Place Sonde inside plastic bag:  (v)

21. Store inside Styrofoam flight box:  (v)

**AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 2-6-15**

- |  |  |
|--|--|
| 1. RUN 5 MINS on NO O <sub>3</sub> <input checked="" type="checkbox"/> (v) | 3. RUN 5 MINS on 5 μamps O <sub>3</sub> <input checked="" type="checkbox"/> (v) - then switch to NO O <sub>3</sub> AIR |
| 2. RECORD CURRENT: <u>0.052</u> μamps                                      | 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: <u>26.84</u> sec   |
|  | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (v)                         |

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 2-14-15 (apparently ozonesondes are my ventilation.)  
INITIALS: CLC

1. Cathode solution # or date written on bottle: 251
2. CHANGE CATHODE SOLUTION (3cc):  (v)
3. CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)
4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (v)
5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = .021 μamps
6. RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)
7. SWITCH TO NO O<sub>3</sub> AIR
8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 26.44 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 19, ROOM RH (%): 15

Flowrate Correction: 1.58 (%)

FLOWRATE #1: 28.35 sec

FLOWRATE #2: 28.29 sec

FLOWRATE #3: 28.37 sec

FLOWRATE #4: 28.36 sec

FLOWRATE #5: 28.37 sec

AVERAGE T100: 28.348 sec

<u>wet</u>	<u>28.99</u>	<u>29.11</u>	<u>29.06</u>	<u>29.053</u>
<u>dry</u>	<u>28.47</u>	<u>28.58</u>	<u>28.75</u>	<u>28.6</u>

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

FLIGHT NUMBER: HV904

GMT DATE (YYMMDD): \_\_\_\_\_ LOCAL DATE: 7:05

GMT LAUNCH TIME: 7:05 LOCAL TIME: 1:05

Operator Initials: CLC

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

PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: \_\_\_\_\_ Burst Alt: \_\_\_\_\_ (km) Turn/Burst: 34km

O<sub>3</sub> sn: \_\_\_\_\_ O<sub>3</sub> CELL BACKGROUND (μamps): \_\_\_\_\_ O<sub>3</sub> Ventilation Holes: U

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

Radiosonde sn: 33284 Freq: 403 (MHz)

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

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

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

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

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

REMARKS: Windy - however, the balloon rebounded into my hand several times, while I was waiting for the wind to calm. Not enough for release. It did launch at -200.13°C consistently. Doesn't seem to be reading pressure right either.