

July 2, 2014

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

- DATE (LOCAL): 3/16/16  
INITIALS: MG  
PUMP#: 2728937
1. Run zero air 10 minutes  (✓)
  2. PUMP CURRENT: 102.64 (mA)
  3. PUMP PRESSURE: 710 (psi)
  4. DMT Press/vac: 30120 (in Hg)
  5. Bypass cell  (✓)
  6. Add 5-6cc cathode  (✓)
  7. 30 MINUTES HI O<sub>3</sub>  (✓)
  8. 3 MINUTES NO O<sub>3</sub>  (✓)
  9. DUMP CATHODE RINSE:  (✓)
  10. ADD 3.0 CC FRESH CATHODE # 262
  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 = 0.153  $\mu$ 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: 39.21 sec.
  16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
  17. RECORD CURRENT: BG = 0.200  $\mu$ 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): 3/23/16**

1. RUN 5 MINS on NO O<sub>3</sub>  (✓)
2. RECORD CURRENT: 0.120  $\mu$ amps
3. RUN 5 MINS on 5  $\mu$ amps O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR
4. RECORD TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 28.07 sec
5. Short cell leads and Store in Styrofoam flight box:  (✓)

**FLIGHT PREPARATION IN LAB.**

DATE (LOCAL): 4/2/16  
INITIALS: MG

1. Cathode solution # or date written on bottle: 262
2. CHANGE CATHODE SOLUTION (3cc):  (✓)
3. CHANGE ANODE SOLUTION (1.5cc): 425 (Yes/No)
4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (✓)
5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.939  $\mu$ 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: 25.03 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 21.6, ROOM RH (%): 32  
Flowrate Correction: 3.1 (%)

|               |   |
|---------------|---|
| FLOWRATE #1:  | <u>29.69</u> sec  |
| FLOWRATE #2:  | <u>29.68</u> sec  |
| FLOWRATE #3:  | <u>29.57</u> sec  |
| FLOWRATE #4:  | <u>29.61</u> sec  |
| FLOWRATE #5:  | <u>29.60</u> sec  |
| AVERAGE T100: | <u>29.63</u> sec  |
| Dry           | <u>27.57</u>   <u>27.72</u>   <u>27.83</u>   <u>27.71</u> |
| Wet           | <u>28.52</u>   <u>28.45</u>   <u>28.73</u>   <u>28.57</u> |

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

FLIGHT NUMBER: HU 963  
GMT DATE (YYMMDD): 160402  
GMT LAUNCH TIME: 1:15 PM  
Operator Initials: MG

LOCAL DATE: 4/2/16  
LOCAL TIME: \_\_\_\_\_

BALLOON SIZE: 1200 Grams: \_\_\_\_\_ TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (✓ one)  
PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: \_\_\_\_\_ Burst Alt: 31.1 (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: 28309 Freq: \_\_\_\_\_ (MHz)

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

SURFACE PRES: \_\_\_\_\_ (hPa)  
SURFACE TEMP: \_\_\_\_\_ (C)  
SURFACE RH: \_\_\_\_\_ (%)

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

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