

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 1/29/16  
INITIALS: JL  
PUMP#: 2229321
1. Run zero air 10 minutes  (✓)
  2. PUMP CURRENT: 91.99 (mA)
  3. PUMP PRESSURE: 10 (psi)
  4. DMT Press/vac: 26 / 19 (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>  (✓)
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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 = 0.230 μA
  14. RUN 10 MINS on 5 μA O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR.
  15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 35.19 sec.
  - 16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
  17. RECORD CURRENT: BG = 0.199 μA
  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): 2/5/2016
1. RUN 5 MINS on NO O<sub>3</sub>  (✓)
  2. RECORD CURRENT: 0.571 μamps
  3. RUN 5 MINS on 5 μamps O<sub>3</sub>  (✓) - then switch to NO O<sub>3</sub> AIR
  4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 28.93 sec
  5. Short cell leads and Store in Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

- DATE (LOCAL): 2/13/2016  
INITIALS: BW
1. Cathode solution # or date written on bottle: Oct 21, 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 = 0.035 μamps
  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 μamps: 27.30 sec
  9. RECORD: 5 - T100 FLOWRATE TIMES:
- T100 FLOWRATE TIMES:
- ROOM TEMP (C): 18.7, ROOM RH (%): 15  
Flowrate Correction: 1.5 (%)
- |     |       |       |       |       |
|-----|-------|-------|-------|-------|
|     | 1     | 2     | 3     | ave   |
| dry | 28.46 | 28.55 | 28.48 | 28.50 |
| wet | 28.87 | 28.97 | 28.96 | 28.93 |
- AVERAGE T100: 28.85 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

- FLIGHT NUMBER: HU956  
GMT DATE (YYMMDD): 150213 LOCAL DATE: 2/13/2016  
GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: 1:02  
Operator Initials: JL
- BALLOON SIZE: \_\_\_\_\_ 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 (μamps): \_\_\_\_\_ 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: \_\_\_\_\_