

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 6/18/16  
 INITIALS: MG  
 PUMP#: 2230799
1. Run zero air 10 minutes  (✓)
  2. PUMP CURRENT: 104.81 (mA)
  3. PUMP PRESSURE: 711 (psi)
  4. DMT Press/vac: 30/21 (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 = 0.209  $\mu$ 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: 42.09 sec.
  16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
  17. RECORD CURRENT: BG = 0.222  $\mu$ 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): 6/15/16

1. RUN 5 MINS on NO O<sub>3</sub>  (✓)
2. RECORD CURRENT: 0.142  $\mu$ 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: 27.88 sec
5. Short cell leads and Store in Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/25/16

INITIALS: MG/PT

1. Cathode solution # or date written on bottle: 262
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 = 0.052  $\mu$ 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: 27.43 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 25.2, ROOM RH (%): 40.1

Flowrate Correction: 1.5 (%)

FLOWRATE #1: 29.66 sec

FLOWRATE #2: 29.49 sec

FLOWRATE #3: 29.69 sec

FLOWRATE #4: 29.68 sec

FLOWRATE #5: 29.39 sec

AVERAGE T100: 29.58 sec

|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Dry | 27.54 | 27.50 | 27.99 | 27.51 |
| Wet | 28.03 | 27.89 | 27.82 | 27.91 |

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4975

GMT DATE (YYMMDD): 160625

GMT LAUNCH TIME: \_\_\_\_\_

LOCAL DATE: 6/25/16

LOCAL TIME: 1:10 pm

Operator Initials: MG, PT

BALLOON SIZE: 1000 Grams:

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

PAWAN \_\_\_\_\_ (✓ one)

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

Burst Alt: 28.0 (km)

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

O<sub>3</sub> sn: \_\_\_\_\_ O<sub>3</sub> CELL BACKGROUND ( $\mu$ amps): \_\_\_\_\_ O<sub>3</sub> Flowrate: \_\_\_\_\_ (sec) O<sub>3</sub> Flowrate Correction: \_\_\_\_\_ (%)

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

Radiosonde sn: 33273 Freq: 403 (MHz)

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

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

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

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

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

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