

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 6/15/16  
 INITIALS: MG  
 PUMP#: 2730615
1. Run zero air 10 minutes  (✓)
  2. PUMP CURRENT: 84.07 (mA)
  3. PUMP PRESSURE: >10 (psi)
  4. DMT Press/vac: 30121 (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 = 0.223 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: 40.00 sec.
  16. Run sonde for 10 mins on NO O<sub>3</sub>  (✓)
  17. RECORD CURRENT: BG = 0.219 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): 6/23/16

1. RUN 5 MINS on NO O<sub>3</sub>  (✓)
2. RECORD CURRENT: 0.087 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: 25.21 sec
5. Short cell leads and Store in Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 01 JUL 16  
INITIALS: DK/mc

1. Cathode solution # or date written on bottle: 21 OCT 15
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 = 0.020 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: 18 59 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22, ROOM RH (%): 39

- Flowrate Correction: 1.10 (%)
- FLOWRATE #1: 29.07 sec  
 FLOWRATE #2: 29.03 sec  
 FLOWRATE #3: 28.99 sec  
 FLOWRATE #4: 29.03 sec  
 FLOWRATE #5: 28.99 sec  
 AVERAGE T100: 29.02 sec

DRY	30.09	30.15	30.12	30.12
WET	30.46	30.51	30.39	30.45

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU976  
 GMT DATE (YYMMDD): 16/7/1 LOCAL DATE: 7/1/16  
 GMT LAUNCH TIME: 2900 LOCAL TIME: 1:00pm  
 Operator Initials: MG/RS

BALLOON SIZE: 1200 Grams: TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (✓ one)  
 PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: Burst Alt: 34.4 (km) Turn/Burst: \_\_\_\_\_

O<sub>3</sub> sn: \_\_\_\_\_ O<sub>3</sub> CELL BACKGROUND (μamps): 0.020 O<sub>3</sub> Ventilation Holes:  (✓)  
 O<sub>3</sub> Flowrate: \_\_\_\_\_ (sec) O<sub>3</sub> Flowrate Correction: \_\_\_\_\_ (%)

Radiosonde sn: 36186 Freq: \_\_\_\_\_ (MHz)

NOAA FPH sn: \_\_\_\_\_ (if using Frost Point Hygrometer.)  
 SURFACE PRES: \_\_\_\_\_ (hPa)  
 SURFACE TEMP: \_\_\_\_\_ (C)  
 SURFACE RH: \_\_\_\_\_ (%)

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