

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 5/18/16  
INITIALS: MG  
PUMP#: 2230790

- 1. Run zero air 10 minutes  (v)
- 2. PUMP CURRENT: 96.72 (mA)
- 3. PUMP PRESSURE: 711 (psi)
- 4. DMT Press/vac: 30120 (in Hg)

- 5. Bypass cell  (v)
- 6. Add 5-6cc cathode  (v)
- 7. 30 MINUTES HI O<sub>3</sub>  (v)
- 8. 3 MINUTES NO O<sub>3</sub>  (v)

- 9. DUMP CATHODE RINSE:  (v)
- 10. ADD 3.0 CC FRESH CATHODE # 262
- 11. ADD 1.5 CC ANODE SOLUTION:  (v)
- 12. RUN 10 MINUTES on NO O<sub>3</sub>  (v)
- 13. RECORD CURRENT BEFORE O<sub>3</sub>: BG = 0.204  $\mu$ A
- 14. RUN 10 MINS on 5  $\mu$ A O<sub>3</sub>  (v) - then switch to NO O<sub>3</sub> AIR.
- 15. RECORD: TIME TO DROP FROM 4 TO 1.5  $\mu$ A: 38.87 sec.

- 16. Run sonde for 10 mins on NO O<sub>3</sub>  (v)
- 17. RECORD CURRENT: BG = 0.211  $\mu$ A
- 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): 5/25/16

- 1. RUN 5 MINS on NO O<sub>3</sub>  (v)
- 2. RECORD CURRENT: .106  $\mu$ amps
- 3. RUN 5 MINS on 5  $\mu$ amps O<sub>3</sub>  (v) - then switch to NO O<sub>3</sub> AIR
- 4. RECORD TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 24.37 sec
- 5. Short cell leads and Store in Styrofoam flight box:  (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 6/6/16  
INITIALS: MG

- 1. Cathode solution # or date written on bottle: 262
- 2. CHANGE CATHODE SOLUTION (3cc):  (v)
- 3. CHANGE ANODE SOLUTION (1.5cc): YES (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 = 0.032  $\mu$ amps
- 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  $\mu$ amps: 22.63 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.3, ROOM RH (%): 41  
 Flowrate Correction: 1.6 (%)  
 FLOWRATE #1: 29.76 sec  
 FLOWRATE #2: 29.67 sec  
 FLOWRATE #3: 29.63 sec  
 FLOWRATE #4: 29.71 sec  
 FLOWRATE #5: 29.68 sec  
 AVERAGE T100: 29.69 sec

Dry	27.47	27.59	27.59	27.53
Wet	28.01	27.87	28.07	27.98

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU972  
 GMT DATE (YYMMDD): 16106106 LOCAL DATE: 6/6/16  
 GMT LAUNCH TIME: 18:02Z LOCAL TIME: 1:02pm

Operator Initials: MG  
 BALLOON SIZE: 1200 Grams: TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (v one)  
 PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: Burst Alt: 34.6 (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: 36183 Freq: \_\_\_\_\_ (MHz)

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

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

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

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