

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11/23/2015  
INITIALS: RWS  
PUMP#: 2229165

- 1. Run zero air 10 minutes  (v)
- 2. PUMP CURRENT: 101.5 (mA)
- 3. PUMP PRESSURE: 211 (psi)
- 4. DMT Press/vac: 32 / 26 (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 #
- 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 = 0.221  $\mu$ 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: 39.29 sec.
- 16. Run sonde for 10 mins on NO O<sub>3</sub>  (v)
- 17. RECORD CURRENT: BG = 0.226  $\mu$ 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): 12/2/2015

- 1. RUN 5 MINS on NO O<sub>3</sub>  (v)
- 2. RECORD CURRENT: 0.048  $\mu$ 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: 25.35 sec
- 5. Short cell leads and Store in Styrofoam flight box:  (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/05/2015  
INITIALS: BW

- 1. Cathode solution # or date written on bottle: Sept 9, 2015
- 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 = 0.028  $\mu$ 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: 27.83 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 15.8 ROOM RH (%): 31%

Flowrate Correction: 3.3 (%)

FLOWRATE #1:	<u>28.41</u> sec
FLOWRATE #2:	<u>28.46</u> sec
FLOWRATE #3:	<u>28.45</u> sec
FLOWRATE #4:	<u>28.47</u> sec
FLOWRATE #5:	<u>28.32</u> sec
AVERAGE T100:	<u>28.42</u> sec

dry	27.54	27.54	27.63	27.57
wet	28.43	28.50	28.50	28.48

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV946  
 GMT DATE (YYMMDD): 151205 LOCAL DATE: 151205  
 GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_  
 Operator Initials: BW  
 BALLOON SIZE: 1200 Grams: \_\_\_\_\_ TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ PAWAN \_\_\_\_\_ (v one)  
 PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: \_\_\_\_\_ Burst Alt: \_\_\_\_\_ (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: \_\_\_\_\_ Freq: \_\_\_\_\_ (MHz)  
 NOAA FPH sn: \_\_\_\_\_ (if using Frost Point Hygrometer.)  
 SURFACE PRES: \_\_\_\_\_ (hPa)  
 SURFACE TEMP: \_\_\_\_\_ (C)  
 SURFACE RH: \_\_\_\_\_ (%)

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