

Season: August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# HARRIS0802

INITIAL PREPARATION -7 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 2015/07/28  
 INITIALS: JDP  
 PUMP# (add x,y,z,R): 2228724
1. Run zero air 10 minutes  (✓)
  2. PUMP CURRENT: 90  $\mu$ A
  3. PUMP PRESSURE: 14.5 psi
  4. ENSCI Press/vac: 26/19
  5. Bypass cell  (✓)
  6. Add 5-6cc cathode  (✓)
  7. 30 MINUTES HI O<sub>2</sub>  (✓)
  8. 5 MINUTES NO O<sub>2</sub>  (✓)
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9. DUMP CATHODE RINSE:  (✓)
  10. ADD 3.0 CC FRESH CATHODE # 002
  11. ADD 1.5 CC ANODE SOLUTION:  (✓)
  12. RUN 10 MINUTES on NO O<sub>2</sub>  (✓)
  13. RECORD CURRENT: BG = 0.18  $\mu$ amps
  14. RUN 10 MINUTES on 5  $\mu$ amps O<sub>2</sub>  (✓) - then switch to NO O<sub>2</sub> AIR.
  15. RECORD: TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 35.6 sec.
  16. Run sonde for 10 minutes on NO O<sub>2</sub> AIR  (✓)
  17. Short the cell leads:  (✓)
  18. Intake tube stored in sonde frame:  (✓)
  19. Place Instrument inside plastic bag:  (✓)
  20. Store inside Styrofoam flight box:  (✓)

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 2015/07/30

1. Replace Cathode/Anode  (✓)
2. RUN 5 MINS on NO O<sub>2</sub>  (✓)
3. RECORD CURRENT: \_\_\_\_\_  $\mu$ amps
4. RUN 5 MINS on 5  $\mu$ amps O<sub>2</sub>  (✓)
5. Switch to NO O<sub>2</sub> AIR
6. RECORD TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 25.84 sec
7. RUN 5 MINS on NO O<sub>2</sub>  (✓)
8. Short cell leads  (✓)
9. Store inside Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 2015/07/31  
 INITIALS: JDP

1. Cathode solution # or date written on bottle: \*002
2. CHANGE CATHODE SOLUTION (3cc):  (✓)
3. CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)
4. RUN ON NO O<sub>2</sub> FOR 10 MINUTES:  (✓)
5. RECORD THE NO O<sub>2</sub> BACKGROUND#1: BG1 = 0.02  $\mu$ amps
6. RUN ON 5 microamps of O<sub>2</sub> for 10 Minutes:  (✓)
7. SWITCH TO NO O<sub>2</sub> AIR
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 25.43 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 19.7, ROOM RH (%): 38  
 Flowrate Correction: 1.5 (%)

|               |               |     |
|---------------|---------------|-----|
| FLOWRATE #1:  | <u>24.57</u>  | sec |
| FLOWRATE #2:  | <u>24.62</u>  | sec |
| FLOWRATE #3:  | <u>24.50</u>  | sec |
| FLOWRATE #4:  | <u>24.65</u>  | sec |
| FLOWRATE #5:  | <u>24.72</u>  | sec |
| AVERAGE T100: | <u>24.612</u> | sec |

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: \_\_\_\_\_  
 GMT DATE (YYMMDD): \_\_\_\_\_ LOCAL DATE: \_\_\_\_\_  
 GMT LAUNCH TIME: \_\_\_\_\_ LOCAL TIME: \_\_\_\_\_

Operator Initials: \_\_\_\_\_  
 BALLOON SIZE: \_\_\_\_\_ Grams: TOTEX \_\_\_\_\_ Hwoyee \_\_\_\_\_ (✓ one)  
 PAY-OFF-WEIGHT: \_\_\_\_\_ Grams: Burst Alt: \_\_\_\_\_ (km)

O<sub>2</sub> sn: \_\_\_\_\_ O<sub>2</sub> CELL BACKGROUND ( $\mu$ amps): \_\_\_\_\_  
 O<sub>2</sub> Flowrate: \_\_\_\_\_ (sec) O<sub>2</sub> Flowrate Correction: \_\_\_\_\_ (%)

Radiosonde s/n: \_\_\_\_\_ Freq: \_\_\_\_\_ (MHz)

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

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

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