

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT #. H4824

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

- |                            |                                      |   |
|----------------------------|--------------------------------------|---|
| DATE (LOCAL): _____        | 1. Run zero air 10 minutes _____ (✓) | 5. Bypass cell _____ (✓)                  |
| INITIALS: _____            | 2. PUMP CURRENT: _____               | 6. Add 5-6cc cathode _____                |
| PUMP# (add x,y,z,R): _____ | 3. PUMP PRESSURE: _____              | 7. 30 MINUTES HI O <sub>3</sub> _____ (✓) |
|                            | 4. ENSCI Press/vac: _____            | 8. 3 MINUTES NO O <sub>3</sub> _____ (✓)  |

- |  |   |
|--|---|
| 9. DUMP CATHODE RINSE: _____ (✓)   | 16. Run sonde for 10 minutes on NO O <sub>3</sub> AIR _____ (✓) |
| 10. ADD 3.0 CC FRESH CATHODE # _____   | 17. Short the cell leads: _____ (✓)                             |
| 11. ADD 1.5 CC ANODE SOLUTION: _____ (✓)   | 18. Intake tube stored in sonde frame: _____ (✓)                |
| 12. RUN 10 MINUTES on NO O <sub>3</sub> _____ (✓)  | 19. Place Instrument inside plastic bag: _____ (✓)              |
| 13. RECORD CURRENT: BG = _____ μamps   | 20. Store inside Styrofoam flight box: _____ (✓)                |
| 14. RUN 10 MINUTES on 5 μamps O <sub>3</sub> _____ (✓) - then switch to NO O <sub>3</sub> AIR. |   |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: _____ sec.                                       |   |

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): \_\_\_\_\_

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

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9/10/2013  
INITIALS: wtc

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24, ROOM RH (%): 39  
 Flowrate Correction: 2.58 (%)  
 FLOWRATE #1: 29.52 sec  
 FLOWRATE #2: 29.78 sec  
 FLOWRATE #3: 29.52 sec  
 FLOWRATE #4: 29.63 sec  
 FLOWRATE #5: 29.51 sec  
 \*AVERAGE T100: 29.59 sec

- Cathode solution # or date written on bottle: 239
- CHANGE CATHODE SOLUTION (3cc): ✓ (✓)
- CHANGE ANODE SOLUTION (1.5cc): ✓ (Yes/No)
- RUN ON NO O<sub>3</sub> FOR 10 MINUTES: ✓ (✓)
- RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.068 μamps
- RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes: ✓ (✓)
- SWITCH TO NO O<sub>3</sub> AIR.
- RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: 28.45 sec
- RECORD: 5 - T100 FLOWRATE TIMES:

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4824  
 GMT DATE (YYMMDD): 9/10/2013 LOCAL DATE: 9/10/2013  
 GMT LAUNCH TIME: 18:24 LOCAL TIME: 13:24

Operator Initials: wtc  
 BALLOON SIZE: 1200 Grams: TOTEX \_\_\_\_\_ Hwoyee ✓ (✓ one)  
 PAY-OFF-WEIGHT: 1200 Grams: Burst Alt: 33.73 (km)

O<sub>3</sub> sn: 2224749 O<sub>3</sub> CELL BACKGROUND (μamps): 0.068  
 O<sub>3</sub> Flowrate: 29.59 (sec) O<sub>3</sub> Flowrate Correction: 2.58 (%)

Radiosonde s/n: 17497 Freq: 403 (MHz)

SURFACE PRES: 997.3 (hPa)  
 SURFACE TEMP: 33 (C)  
 SURFACE RH: 50.5 (%)

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

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