

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# 44815

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 08/21/2013
- INITIALS: NLP
- PUMP# (add x,y,z,R): 2222184
- 1. Run zero air 10 minutes  (✓)
- 2. PUMP CURRENT: 103.33
- 3. PUMP PRESSURE: 29
- 4. ENSCI Press/vac: 26/21.10 Hz
- 5. Bypass cell  (✓)
- 6. Add 5-6cc cathode  (✓)
- 7. 30 MINUTES HI O<sub>3</sub>  (✓)
- 8. 3 MINUTES NO O<sub>3</sub>  (✓)

- 9. DUMP CATHODE RINSE:  (✓)
- 10. ADD 3.0 CC FRESH CATHODE # #238
- 11. ADD 1.5 CC ANODE SOLUTION:  (✓)
- 12. RUN 10 MINUTES on NO O<sub>3</sub>  (✓)
- 13. RECORD CURRENT: BG = 0.229 μamps
- 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: 35.08 sec.
- 16. Run sonde for 10 minutes on NO O<sub>3</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): 08/23/2013

- 1. Replace Cathode/Anode  (✓)
- 2. RUN 5 MINS on NO O<sub>3</sub>  (✓)
- 3. RECORD CURRENT: 1.150 μamps
- 4. RUN 5 MINS on 5 μamps O<sub>3</sub>  (✓)
- 5. Switch to NO O<sub>3</sub> AIR
- 6. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 26.27 sec
- 7. RUN 5 MINS on NO O<sub>3</sub>  (✓)
- 8. Short cell leads  (✓)
- 9. Store inside Styrofoam flight box:  (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 8/27/2013  
INITIALS: WTC

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24, ROOM RH (%): 39  
Flowrate Correction: 1.43 (%)

- 1. Cathode solution # or date written on bottle: 238
- 2. CHANGE CATHODE SOLUTION (3cc):  (✓)
- 3. CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)
- 4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (✓)
- 5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.052 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: THE TIME TO DROP FROM 4 TO 1.5 μamps: 26.21 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

- FLOWRATE #1: 29.79 sec
- FLOWRATE #2: 29.95 sec
- FLOWRATE #3: 30.00 sec
- FLOWRATE #4: 29.97 sec
- FLOWRATE #5: 29.89 sec
- AVERAGE T100: 29.92 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: 44815  
GMT DATE (YYMMDD): 130827 LOCAL DATE: 130827  
GMT LAUNCH TIME: 18:05:28 LOCAL TIME: 13:05:28

Operator Initials: WTC  
BALLOON SIZE: 1000 Grams: TOTEX \_\_\_\_\_ Hwoyee  (✓ one)  
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 31.22 (km)

O<sub>3</sub> sn: 2222184 O<sub>3</sub> CELL BACKGROUND (μamps): 0.052  
O<sub>3</sub> Flowrate: 29.92 (sec) O<sub>3</sub> Flowrate Correction: 1.43 (%)

Radiosonde s/n: 21044 Freq: 403 (MHz)

SURFACE PRES: 995.9 (hPa)  
SURFACE TEMP: 030 (C)  
SURFACE RH: 48 (%)

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