

Seacions August 2013

U.S. DEPARTMENT OF COMMERCE
NOAA Earth System Research Lab
DIGITAL OZO SONDE CHECKLISTFLT# H4803

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/08/2013INITIALS: NLPPUMP# (add x,y,z,R): 22247381. Run zero air 10 minutes ☒ (✓)2. PUMP CURRENT: 88.143. PUMP PRESSURE: > 11.04. ENSCI Press/vac: 34/19 in Hg5. Bypass cell ☒ (✓)6. Add 5-6cc cathode ☒ (✓)7. 30 MINUTES HI O₃ ☒ (✓)8. 3 MINUTES NO O₃ ☒ (✓)9. DUMP CATHODE RINSE: ☒ (✓)10. ADD 3.0 CC FRESH CATHODE # ☒ (✓)11. ADD 1.5 CC ANODE SOLUTION: ☒ (✓)12. RUN 10 MINUTES on NO O₃ ☒ (✓)13. RECORD CURRENT: BG = 0.059 μ amps14. RUN 10 MINUTES on 5 μ amps O₃ ☒ (✓) - then switch to NO O₃ AIR.15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 25.93 sec.16. Run sonde for 10 minutes on NO O₃ 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): 08/10/20131. Replace Cathode/Anode ☒ (✓)2. RUN 5 MINS on NO O₃ ☒ (✓)3. RECORD CURRENT: 0.49 μ amps4. RUN 5 MINS on 5 μ amps O₃ ☒ (✓)5. Switch to NO O₃ AIR6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 22.73 sec7. RUN 5 MINS on NO O₃ ☒ (✓)8. Short cell leads ☒ (✓)9. Store inside Styrofoam flight box: ☒ (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 08/13/2013INITIALS: NLP

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.4, ROOM RH (%): 44Flowrate Correction: 1.73 (%)1. Cathode solution # or date written on bottle: #2382. CHANGE CATHODE SOLUTION (3cc): ☒ (✓)3. CHANGE ANODE SOLUTION (1.5cc): ☒ (Yes/No)4. RUN ON NO O₃ FOR 10 MINUTES: ☒ (✓)5. RECORD THE NO O₃ BACKGRND#1: BG1= 0.034 μ amps6. RUN ON 5 microamps of O₃ for 10 Minutes: ☒ (✓)7. SWITCH TO NO O₃ AIR.8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 22.35 sec

9. RECORD: 5 - T100 FLOWRATE TIMES:

FLOWRATE #1: 29.11 secFLOWRATE #2: 29.07 secFLOWRATE #3: 29.18 secFLOWRATE #4: 29.05 secFLOWRATE #5: 29.22 secAVERAGE T100: 29.13 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: H4803GMT DATE (YYMMDD): 08/13/2013LOCAL DATE: 08/13/2013GMT LAUNCH TIME: 17:50LOCAL TIME: 12:50Operator Initials: NLPBALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee ☒ (✓ one)PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 25 (km)O₃ sn: 2224738O₃ CELL BACKGROUND (μ amps): 0.034O₃ Flowrate: 29.13 (sec)O₃ Flowrate Correction: 1.73 (%)Radiosonde s/n: 17925 Freq: 402 (MHz)SURFACE PRES: 990 (hPa)SURFACE TEMP: 29 (C)SURFACE RH: 64 (%)Sky Conditions: Partly Cloudy

REMARKS: