

Seacions August 2013

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/24/2013 1. Run zero air 10 minutes (v) 5. Bypass cell (v)
 INITIALS: NLP 2. PUMP CURRENT: 98.76 6. Add 5-6cc cathode (v)
 PUMP# (add x,y,z,R): 2222183 3. PUMP PRESSURE: >10 7. 30 MINUTES HI O₃ (v)
 4. ENSCI Press/vac: 28/21 in Hg 8. 3 MINUTES NO O₃ (v)

9. DUMP CATHODE RINSE: (v) 16. Run sonde for 10 minutes on NO O₃ AIR (v)
 10. ADD 3.0 CC FRESH CATHODE # (v) 17. Short the cell leads: (v)
 11. ADD 1.5 CC ANODE SOLUTION: (v) 18. Intake tube stored in sonde frame: (v)
 12. RUN 10 MINUTES on NO O₃ (v) 19. Place Instrument inside plastic bag: (v)
 13. RECORD CURRENT: BG = 0000 0.252 μ amps 20. Store inside Styrofoam flight box: (v)
 14. RUN 10 MINUTES on 5 μ amps O₃ (v) - then switch to NO O₃ AIR.
 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 37.09 sec.

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 08/27/2013

1. Replace Cathode/Anode (v) 6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 26.61 sec
 2. RUN 5 MINS on NO O₃ (v) 7. RUN 5 MINS on NO O₃ (v)
 3. RECORD CURRENT: 146 μ amps 8. Short cell leads (v)
 4. RUN 5 MINS on 5 μ amps O₃ (v) 9. Store inside Styrofoam flight box: (v)
 5. Switch to NO O₃ AIR

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 08/30/2013
INITIALS: NLP

T100 FLOWRATE TIMES:

1. Cathode solution # or date written on bottle: 238
 2. CHANGE CATHODE SOLUTION (3cc): (v)
 3. CHANGE ANODE SOLUTION (1.5cc): (Yes/No)
 4. RUN ON NO O₃ FOR 10 MINUTES: (v)
 5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.032 μ amps
 6. RUN ON 5 microamps of O₃ for 10 Minutes: (v)
 7. SWITCH TO NO O₃ AIR.
 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 24.69 sec
 9. RECORD: 5 - T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.2, ROOM RH (%): 41
 Flowrate Correction: 1.80 (%)
 FLOWRATE #1: 28.99 sec
 FLOWRATE #2: 28.98 sec
 FLOWRATE #3: 28.93 sec
 FLOWRATE #4: 28.94 sec
 FLOWRATE #5: 28.91 sec
 *AVERAGE T100: 28.95 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 818
 GMT DATE (YYMMDD): 08/30/2013 LOCAL DATE: 08/30/2013
 GMT LAUNCH TIME: 19:06:48 LOCAL TIME: 13:06:48

Operator Initials: WTC
 BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee (v one)
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 30.58 (km)

O₃ sn: 2222183 O₃ CELL BACKGROUND (μ amps): 0.032
 O₃ Flowrate: 28.95 (sec) O₃ Flowrate Correction: 1.80 (%)

Radiosonde s/n: 20963 Freq: 403 (MHZ)

SURFACE PRES: 991.4 (hPa)
 SURFACE TEMP: 32 (C)
 SURFACE RH: 52.5 (%)

Sky Conditions: _____

REMARKS: _____