

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# HU 829

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 09/17/2013 1. Run zero air 10 minutes  (v) 5. Bypass cell  (v)  
 INITIALS: NLP 2. PUMP CURRENT: 98.60 6. Add 5-6cc cathode  (v)  
 PUMP# (add x,y,z,R): 2224631 3. PUMP PRESSURE: 7.10 7. 30 MINUTES HI O<sub>3</sub>  (v)  
 4. ENSCI Press/vac: 26/12 in.Hg 8. 3 MINUTES NO O<sub>3</sub>  (v)

9. DUMP CATHODE RINSE:  (v) 16. Run sonde for 10 minutes on NO O<sub>3</sub> 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 O<sub>3</sub>  (v) 19. Place Instrument inside plastic bag:  (v)  
 13. RECORD CURRENT: BG = 0.150  $\mu$ amps 20. Store inside Styrofoam flight box:  (v)  
 14. RUN 10 MINUTES on 5  $\mu$ amps O<sub>3</sub>  (v) - then switch to NO O<sub>3</sub> AIR.  
 15. RECORD: TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 30.47 sec.

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

1. Replace Cathode/Anode  (v) 6. RECORD TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 21.96 sec  
 2. RUN 5 MINS on NO O<sub>3</sub>  (v) 7. RUN 5 MINS on NO O<sub>3</sub>  (v)  
 3. RECORD CURRENT: 0.058  $\mu$ amps 8. Short cell leads  (v)  
 4. RUN 5 MINS on 5  $\mu$ amps O<sub>3</sub>  (v) 9. Store inside Styrofoam flight box:  (v)  
 5. Switch to NO O<sub>3</sub> AIR

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/20/2013  
 INITIALS: NLP

1. Cathode solution # or date written on bottle: 239  
 2. CHANGE CATHODE SOLUTION (3cc):  (v)  
 3. CHANGE ANODE SOLUTION (1.5cc):  (Yes/No)  
 4. RUN ON NO O<sub>3</sub> FOR 10 MINUTES:  (v)  
 5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.023  $\mu$ amps  
 6. RUN ON 5 microamps of O<sub>3</sub> for 10 Minutes:  (v)  
 7. SWITCH TO NO O<sub>3</sub> AIR.  
 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 21.41 sec  
 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.8, ROOM RH (%): 34  
 Flowrate Correction: 2.12 (%)  
 FLOWRATE #1: 28.50 sec  
 FLOWRATE #2: 28.49 sec  
 FLOWRATE #3: 28.52 sec  
 FLOWRATE #4: 28.37 sec  
 FLOWRATE #5: 28.48 sec  
 \*AVERAGE T100: 28.47 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 829  
 GMT DATE (YYMMDD): 9/20/2012 LOCAL DATE: 9/20/2013  
 GMT LAUNCH TIME: 19:37:38 LOCAL TIME: 14:37:38

Operator Initials: LTC  
 BALLOON SIZE: 1200 Grams: TOTEX \_\_\_\_\_ Hwoyee  (v one)  
 PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 31.35 (km)

O<sub>3</sub> sn: 2224631 O<sub>3</sub> CELL BACKGROUND ( $\mu$ amps): 0.023  
 O<sub>3</sub> Flowrate: 28.47 (sec) O<sub>3</sub> Flowrate Correction: 2.12 (%)

Radiosonde s/n: 17891 Freq: 403 (MHz)

SURFACE PRES: 992.6 (hPa)  
 SURFACE TEMP: 29 (C)  
 SURFACE RH: 49.2 (%)

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

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