

Seacions August 2013

DIGITAL OZONESONDE CHECKLIST

FLT# HU 822

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/28/2013  
INITIALS: NLP  
PUMP# (add x,y,z,R): 2222185

- 1. Run zero air 10 minutes  (v)
- 2. PUMP CURRENT: 95.97
- 3. PUMP PRESSURE: 210
- 4. ENSCI Press/vac: 30/21 in Hg
- 5. Bypass cell  (v)
- 6. Add 5-6cc cathode  (v)
- 7. 30 MINUTES HI O<sub>3</sub>  (v)
- 8. 3 MINUTES NO O<sub>3</sub>  (v)

- 9. DUMP CATHODE RINSE:  (v)
- 10. ADD 3.0 CC FRESH CATHODE #  (v)
- 11. ADD 1.5 CC ANODE SOLUTION:  (v)
- 12. RUN 10 MINUTES on NO O<sub>3</sub>  (v)
- 13. RECORD CURRENT: BG = 0.313  $\mu$ amps  (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: 34 sec.
- 16. Run sonde for 10 minutes on NO O<sub>3</sub> AIR  (v)
- 17. Short the cell leads:  (v)
- 18. Intake tube stored in sonde frame:  (v)
- 19. Place Instrument inside plastic bag:  (v)
- 20. Store inside Styrofoam flight box:  (v)

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 09/02/2013

- 1. Replace Cathode/Anode  (v)
- 2. RUN 5 MINS on NO O<sub>3</sub>  (v)
- 3. RECORD CURRENT: 0.098  $\mu$ amps
- 4. RUN 5 MINS on 5  $\mu$ amps O<sub>3</sub>  (v)
- 5. Switch to NO O<sub>3</sub> AIR
- 6. RECORD TIME TO DROP FROM 4 TO 1.5  $\mu$ amps: 23.87 sec
- 7. RUN 5 MINS on NO O<sub>3</sub>  (v)
- 8. Short cell leads  (v)
- 9. Store inside Styrofoam flight box:  (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/02/2013  
INITIALS: NLP OL

T100 FLOWRATE TIMES:

ROOM TEMP (C): 23.9, ROOM RH (%): 40  
Flowrate Correction: 2.67 (%)

- 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 O<sub>3</sub> FOR 10 MINUTES:  (v)
- 5. RECORD THE NO O<sub>3</sub> BACKGRND#1: BG1 = 0.043  $\mu$ 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: 23.07 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

- FLOWRATE #1: 28.88 sec
- FLOWRATE #2: 29.04 sec
- FLOWRATE #3: 29.06 sec
- FLOWRATE #4: 29.15 sec
- FLOWRATE #5: 29.04 sec
- AVERAGE T100: 29.03 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 822  
GMT DATE (YYMMDD): 09/02/2013 LOCAL DATE: 09/02/2013  
GMT LAUNCH TIME: 18:30 LOCAL TIME: 13:30  
Operator Initials: NLP

BALLOON SIZE: 1000 Grams: TOTEX \_\_\_\_\_ Hwoyee  (v one)  
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 24,22 (km)

O<sub>3</sub> sn: 2222185 O<sub>3</sub> CELL BACKGROUND ( $\mu$ amps): 0.043  
O<sub>3</sub> Flowrate: 29.03 (sec) O<sub>3</sub> Flowrate Correction: 2.67 (%)

Radiosonde s/n: 17761 Freq: 403 (MHz)

SURFACE PRES: 996.2 (hPa)  
SURFACE TEMP: 31 (C)  
SURFACE RH: 40.4 (%)

Sky Conditions: clear

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