

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

DATE (LOCAL): 11-27-14
INITIALS: CJC
PUMP#: 2227540

- 1. Run zero air 10 minutes (✓)
- 2. PUMP CURRENT: 96.38 (mA)
- 3. PUMP PRESSURE: 710 (psi)
- 4. DMT Press/vac: 27 / 20 (in Hg)

- 5. 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 # 245
- 11. ADD 1.5 CC ANODE SOLUTION: (✓)
- 12. RUN 10 MINUTES on NO O₃ (✓)
- 13. RECORD CURRENT BEFORE O₃: BG = .270 μA
- 14. RUN 10 MINS on 5 μA O₃ (✓) - then switch to NO O₃ AIR.
- 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μA: 46.85 sec.
- 16. Run sonde for 10 mins on NO O₃ (✓)
- 17. RECORD CURRENT: BG = .248 μA
- 18. Short the cell leads: (✓)
- 19. Intake tube stored in sonde frame: (✓)
- 20. Place Sonde inside plastic bag: (✓)
- 21. Store inside Styrofoam flight box: (✓)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 12-3-14

- 1. RUN 5 MINS on NO O₃ (✓)
- 2. RECORD CURRENT: 0.082 μamps
- 3. RUN 5 MINS on 5 μamps O₃ (✓) - then switch to NO O₃ AIR
- 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: 26.51 sec
- 5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 12/13/14
INITIALS: CJC

- 1. Cathode solution # or date written on bottle: 245
- 2. CHANGE CATHODE SOLUTION (3cc): (✓)
- 3. CHANGE ANODE SOLUTION (1.5cc): 245 (Yes/No)
- 4. RUN ON NO O₃ FOR 10 MINUTES: (✓)
- 5. RECORD THE NO O₃ BACKGRND#1: BG1= .049 μamps
- 6. RUN ON 5 microamps of O₃ for 10 Minutes: (✓)
- 7. SWITCH TO NO O₃ AIR
- 8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μamps: 28.40 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 21.1, ROOM RH (%): 17
 Flowrate Correction: 3.8 (%)
 FLOWRATE #1: 29.32 sec
 FLOWRATE #2: 29.29 sec
 FLOWRATE #3: 29.32 sec
 FLOWRATE #4: 29.29 sec
 FLOWRATE #5: 29.31 sec
 AVERAGE T100: 29.306 sec

29.46	29.53	29.45	29.48
28.34	28.41	28.45	28.40

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV895
GMT DATE (YYMMDD): _____
GMT LAUNCH TIME: _____
Operator Initials: CJC

LOCAL DATE: 12/13/14
LOCAL TIME: 1200

BALLOON SIZE: 1200 Grams: _____ TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
PAY-OFF-WEIGHT: _____ Grams: _____ Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: 2727540 O₃ CELL BACKGROUND (μamps): .049 μamps O₃ Ventilation Holes: (✓)
O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: 3.8 (%)
Radiosonde sn: 29020 Freq: 603 (MHz)

NOAA FPH sn: _____ (if using Frost Point Hygrometer.)

SURFACE PRES: 999.1 (hPa)
SURFACE TEMP: 7.6 (C)
SURFACE RH: 67.6 (%)

Sky Conditions: _____

REMARKS: battery connection not stable!