

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 8/27/2015
 INITIALS: IVL
 PUMP#: 2228738
- 1. Run zero air 10 minutes (✓)
 - 2. PUMP CURRENT: 92.74 (mA)
 - 3. PUMP PRESSURE: 710 (psi)
 - 4. DMT Press/vac: 27/21 (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 # 258
- 11. ADD 1.5 CC ANODE SOLUTION: (✓)
- 12. RUN 10 MINUTES on NO O₃ (✓)
- 13. RECORD CURRENT BEFORE O₃: BG = .226 μ A ^{.226}
- 14. RUN 10 MINS on 5 μ A O₃ (✓) - then switch to NO O₃ AIR.
- 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ A: 41.12 sec.
- 16. Run sonde for 10 mins on NO O₃ (✓)
- 17. RECORD CURRENT: BG = .224 μ A
- 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): 9/2/2015

- 1. RUN 5 MINS on NO O₃ (✓)
- 2. RECORD CURRENT: .124 μ amps
- 3. RUN 5 MINS on 5 μ amps O₃ (✓) - then switch to NO O₃ AIR
- 4. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 25.67 sec
- 5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 9-12-2015
INITIALS: BW

- 1. Cathode solution # or date written on bottle: 6/2/2015
- 2. CHANGE CATHODE SOLUTION (3cc): (✓)
- 3. CHANGE ANODE SOLUTION (1.5cc): Yes (Yes/No)
- 4. RUN ON NO O₃ FOR 10 MINUTES: (✓)
- 5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.036 μ amps
- 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 μ amps: 24.27 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 22.9, ROOM RH (%): 48
 Flowrate Correction: 3.9 (%)

- FLOWRATE #1: 30.84 sec
- FLOWRATE #2: 30.72 sec
- FLOWRATE #3: 30.63 sec
- FLOWRATE #4: 30.74 sec
- FLOWRATE #5: 30.77 sec
- AVERAGE T100: 30.74 sec

	1	2	3	average
dry	27.58	27.62	27.65	27.62
wet	28.81	28.64	28.61	28.70

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV934
 GMT DATE (YYMMDD): 150912 LOCAL DATE: 150912
 GMT LAUNCH TIME: 6:00PM LOCAL TIME: 1:00PM

Operator Initials: BW. 120
 BALLOON SIZE: 800 Grams: TOTEX _____ Hwoyee _____ PAWAN _____ (✓ one)
 PAY-OFF-WEIGHT: _____ Grams: Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: _____ O₃ CELL BACKGROUND (μ amps): _____ O₃ Ventilation Holes: _____
 O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)

Radiosonde sn: _____ Freq: _____ (MHz)

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

SURFACE PRES: _____ (hPa)
 SURFACE TEMP: _____ (C)
 SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____