

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 1/25/2016
- INITIALS: JL
- PUMP#: 2229318
- 1. Run zero air 10 minutes (v)
- 2. PUMP CURRENT: 90.01 (mA)
- 3. PUMP PRESSURE: 710 (psi)
- 4. DMT Press/vac: 27/20 (in Hg)
- 5. Bypass cell (v)
- 6. Add 5-6cc cathode (v)
- 7. 30 MINUTES HI O₃ (v)
- 8. 3 MINUTES NO O₃ (v)
- 9. DUMP CATHODE RINSE: (v)
- 10. ADD 3.0 CC FRESH CATHODE # 262
- 11. ADD 1.5 CC ANODE SOLUTION: (v)
- 12. RUN 10 MINUTES on NO O₃ (v)
- 13. RECORD CURRENT BEFORE O₃: BG = .129 μ A
- 14. RUN 10 MINS on 5 μ A O₃ (v) - then switch to NO O₃ AIR.
- 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ A: 38.19 sec.
- 16. Run sonde for 10 mins on NO O₃ (v)
- 17. RECORD CURRENT: BG = .150 μ A
- 18. Short the cell leads: (v)
- 19. Intake tube stored in sonde frame: (v)
- 20. Place Sonde inside plastic bag: (v)
- 21. Store inside Styrofoam flight box: (v)

AFTER 1 WEEK: REPLACE SOLUTIONS: DATE (LOCAL): 1/29/16

- 1. RUN 5 MINS on NO O₃ (v)
- 2. RECORD CURRENT: .089 μ amps
- 3. RUN 5 MINS on 5 μ amps O₃ (v) - then switch to NO O₃ AIR
- 4. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 30.83 sec
- 5. Short cell leads and Store in Styrofoam flight box: (v)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 2/6/16
INITIALS: JL

- 1. Cathode solution # or date written on bottle: 262
- 2. CHANGE CATHODE SOLUTION (3cc): (v)
- 3. CHANGE ANODE SOLUTION (1.5cc): 4.0 (Yes/No)
- 4. RUN ON NO O₃ FOR 10 MINUTES: (v)
- 5. RECORD THE NO O₃ BACKGRND#1: BG1 = .033 μ amps
- 6. RUN ON 5 microamps of O₃ for 10 Minutes: (v)
- 7. SWITCH TO NO O₃ AIR
- 8. RECORD: DECAY TIME TO DROP FROM 4 TO 1.5 μ amps: 26.47 sec
- 9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 19.5, ROOM RH (%): 18%

- Flowrate Correction: 2.59 (%)
- FLOWRATE #1: 29.66 sec
- FLOWRATE #2: 29.60 sec
- FLOWRATE #3: 29.64 sec
- FLOWRATE #4: 29.60 sec
- FLOWRATE #5: 29.59 sec

AVERAGE T100: 29.59 sec

	<u>28.09</u>	<u>28.13</u>	<u>28.09</u>	<u>28.09</u>	avg
Dry	<u>28.80</u>	<u>28.83</u>	<u>28.82</u>	<u>28.83</u>	avg
Wet					

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: _____
 GMT DATE (YYMMDD): _____ LOCAL DATE: _____
 GMT LAUNCH TIME: _____ LOCAL TIME: _____
 Operator Initials: _____
 BALLOON SIZE: _____ Grams: _____ TOTEX _____ Hwoyee _____ PAWAN _____ (v 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: 268855 Freq: _____ (MHz)

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

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

Sky Conditions: _____

REMARKS: _____