

July 2, 2014

DIGITAL OZONESONDE CHECKLIST

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

- DATE (LOCAL): 6/11/16
 INITIALS: MG
 PUMP#: 2730791
1. Run zero air 10 minutes (✓)
 2. PUMP CURRENT: 98.39 (mA)
 3. PUMP PRESSURE: 711 (psi)
 4. DMT Press/vac: 261 21 (in Hg)
 5. Bypass cell (✓)
 6. Add 5-6cc cathode (✓)
 7. 30 MINUTES HI O₃ (✓)
 8. 3 MINUTES NO O₃ (✓)
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9. DUMP CATHODE RINSE: (✓)
 10. ADD 3.0 CC FRESH CATHODE # 262
 11. ADD 1.5 CC ANODE SOLUTION: (✓)
 12. RUN 10 MINUTES on NO O₃ (✓)
 13. RECORD CURRENT BEFORE O₃: BG = 0.221 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: 38.49 sec.
 16. Run sonde for 10 mins on NO O₃ (✓)
 17. RECORD CURRENT: BG = 0.231 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): 6/8/16

1. RUN 5 MINS on NO O₃ (✓)
2. RECORD CURRENT: .136 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: 27.02 sec
5. Short cell leads and Store in Styrofoam flight box: (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): June 18, 2016
 INITIALS: BW

1. Cathode solution # or date written on bottle: Oct 21, 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 = 0.018 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: 20.28 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 24.6, ROOM RH (%): 43

- Flowrate Correction: 1.5 (%)
- FLOWRATE #1: 29.73 sec
 FLOWRATE #2: 29.73 sec
 FLOWRATE #3: 29.73 sec
 FLOWRATE #4: 29.79 sec
 FLOWRATE #5: 29.68 sec
 AVERAGE T100: 29.73 sec

	1	2	3	average
dry	27.21	27.17	27.09	27.16
wet	27.59	27.54	27.51	27.57

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HV974

GMT DATE (YYMMDD): 160618

GMT LAUNCH TIME: _____

Operator Initials: BW

LOCAL DATE: 160618

LOCAL TIME: 1:20 PM

BALLOON SIZE: 1000 Grams:

PAY-OFF-WEIGHT: _____ Grams:

TOTEX _____ Hwoyee _____

Burst Alt: _____ (km)

PAWAN _____ (✓ one)

Turn/Burst: _____

O₃ sn: _____ O₃ CELL BACKGROUND (μamps): _____
 O₃ Flowrate: _____ (sec) O₃ Flowrate Correction: _____ (%)

O₃ Ventilation Holes: _____

Radiosonde sn: _____ Freq: _____ (MHz)

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

SURFACE PRES: _____ (hPa)

SURFACE TEMP: _____ (C)

SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____