**Supplementary tables**

**Table S1.** Concentration of total phosphorus (TPW) and total nitrogen (TNW) in Blizne Reservoir

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date** | **BL1** | | **BL2** | | **BL3** | |
| TNW | TPW | TNW | TPW | TNW | TPW |
| [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] |
| 2018-05-28 | 0.49 | 0.04 | 0.42 | 0.04 | 0.50 | 0.05 |
| 2018-06-18 | 0.56 | 0.07 | 0.56 | 0.06 | 0.47 | 0.04 |
| 2018-07-09 | 0.52 | 0.06 | 0.49 | 0.05 | 0.62 | 0.05 |
| 2018-07-30 | 0.64 | 0.06 | 0.56 | 0.04 | 0.55 | 0.05 |
| 2018-08-20 | 0.64 | 0.06 | 0.56 | 0.06 | 0.55 | 0.04 |
| 2018-09-11 | 0.48 | 0.03 | 0.56 | 0.05 | 0.48 | 0.04 |
|  | **0.56** | **0.05** | **0.52** | **0.05** | **0.53** | **0.05** |
| **σ** | **0.07** | **0.02** | **0.06** | **0.01** | **0.06** | **0.01** |
| **min** | **0.48** | **0.03** | **0.42** | **0.04** | **0.47** | **0.04** |
| **max** | **0.64** | **0.07** | **0.56** | **0.06** | **0.62** | **0.05** |

**Table S2.** Concentration of total phosphorus (TPW) and total nitrogen (TNW) in Maziarnia Reservoir

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date** | **M1** | | **M2** | | **M3** | |
| TNW | TPW | TNW | TPW | TNW | TPW |
| [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] |
| 2018-05-28 | 1.15 | 0.14 | 1.01 | 0.09 | 0.99 | 0.06 |
| 2018-06-19 | 0.95 | 0.10 | 0.89 | 0.07 | 0.83 | 0.06 |
| 2018-07-06 | 1.20 | 0.15 | 0.87 | 0.08 | 1.04 | 0.06 |
| 2018-07-31 | 1.19 | 0.45 | 0.93 | 0.11 | 1.03 | 0.08 |
| 2018-08-21 | 1.19 | 0.17 | 0.93 | 0.14 | 1.03 | 0.11 |
| 2018-09-11 | 1.15 | 0.13 | 2.04 | 0.32 | 1.02 | 0.11 |
|  | **1.14** | **0.19** | **1.11** | **0.13** | **0.99** | **0.08** |
| **σ** | **0.09** | **0.13** | **0.46** | **0.10** | **0.08** | **0.03** |
| **min** | **0.95** | **0.10** | **0.87** | **0.07** | **0.83** | **0.06** |
| **max** | **1.20** | **0.45** | **2.04** | **0.32** | **1.04** | **0.11** |

**Table S3.** Concentration of total phosphorus (TPW) and total nitrogen (TNW) in Nielisz Reservoir

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date** | **N1** | | **N2** | | **N3** | |
| TNW | TPW | TNW | TPW | TNW | TPW |
| [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] | [mg∙dm-3] |
| 2019-06-10 | 1.59 | 0.93 | 1.18 | 1.04 | 1.05 | 0.39 |
| 2019-07-09 | 1.50 | 0.78 | 1.35 | 0.78 | 1.16 | 0.70 |
| 2019-08-07 | 1.41 | 0.99 | 1.00 | 0.78 | 0.91 | 0.43 |
| 2019-08-27 | 1.73 | 1.40 | 0.92 | 0.61 | 0.89 | 0.45 |
|  | **1.56** | **1.02** | **1.11** | **0.80** | **1.00** | **0.49** |
| **σ** | **0.14** | **0.27** | **0.19** | **0.18** | **0.12** | **0.14** |
| **min** | **1.41** | **0.78** | **0.92** | **0.61** | **0.89** | **0.39** |
| **max** | **1.73** | **1.40** | **1.35** | **1.04** | **1.16** | **0.70** |

**Table S4.** Concentrations of Chl*a* in Blizne Reservoir

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **BL1** | **BL2** | **BL3** |
| Chl*a* | Chl*a* | Chl*a* |
| [*μ*g∙dm-3] | [*μ*g∙dm-3] | [*μ*g∙dm-3] |
| 2018-05-28 | 3.70 | 8.33 | 6.48 |
| 2018-06-18 | 16.66 | 12.96 | 8.33 |
| 2018-07-09 | 22.21 | 18.51 | 13.88 |
| 2018-07-30 | 25.91 | 8.33 | 10.18 |
| 2018-08-20 | 21.29 | 15.73 | 12.96 |
| 2018-09-11 | 10.18 | 13.88 | 7.40 |
|  | **16.66** | **12.96** | **9.87** |
| **σ** | **8.34** | **4.06** | **3.02** |
| **min** | **3.70** | **8.33** | **6.48** |
| **max** | **25.91** | **18.51** | **13.88** |

**Table S5.** Concentrations of Chl*a* in Maziarnia Reservoir

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **M1** | **M2** | **M3** |
| Chl*a* | Chl*a* | Chl*a* |
| [*μ*g∙dm-3] | [*μ*g∙dm-3] | [*μ*g∙dm-3] |
| 2018-05-28 | 54.61 | 16.66 | 25.91 |
| 2018-06-19 | 32.39 | 30.54 | 19.44 |
| 2018-07-06 | 18.51 | 16.66 | 16.66 |
| 2018-07-31 | 46.89 | 43.19 | 25.91 |
| 2018-08-21 | 40.72 | 51.83 | 51.83 |
| 2018-09-11 | 38.25 | 236.93 | 38.25 |
|  | **38.56** | **65.97** | **29.67** |
| **σ** | **12.42** | **84.93** | **13.17** |
| **min** | **18.51** | **16.66** | **16.66** |
| **max** | **54.61** | **236.93** | **51.83** |

**Table S6.** Concentrations of Chl*a* in Nielisz Reservoir

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **N1** | **N2** | **N3** |
| Chl*a* | Chl*a* | Chl*a* |
| [*μ*g∙dm-3] | [*μ*g∙dm-3] | [*μ*g∙dm-3] |
| 2019-06-10 | 83.91 | 59.23 | 66.64 |
| 2019-07-09 | 120.32 | 142.53 | 142.53 |
| 2019-08-07 | 75.89 | 62.94 | 4257 |
| 2019-08-27 | 185.10 | 57.38 | 51.83 |
|  | **116.31** | **80.52** | **75.89** |
| **σ** | **49.77** | **41.40** | **45.52** |
| **min** | **75.89** | **57.38** | **42.57** |
| **max** | **185.10** | **142.53** | **142.53** |

**Table S7.** Concentration of suspended sediment (SS) and organic matter (OMSS) contained in Blizne Reservoir

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **BL-R** | | **BL1** | | **BL2** | | **BL3** | | **BL-D** | |
| **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** |
| [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] |
| 2018-05-08 | 12.17 | 28.77 | 25.93 | 33.93 | 8.00 | 39.58 | 6.83 | 43.90 | 6.50 | 53.85 |
| 2018-05-21 | 6.67 | 32.50 | 23.88 | 31.81 | 5.83 | 48.57 | 9.67 | 37.93 | 6.00 | 47.22 |
| 2018-05-28 | 14.50 | 29.89 | 14.33 | 36.28 | 4.50 | 55.56 | 6.67 | 62.50 | 4.17 | 64.00 |
| 2018-06-07 | 20.83 | 21.60 | 27.98 | 30.01 | 8.83 | 50.94 | 7.67 | 47.83 | 9.67 | 50.00 |
| 2018-06-18 | 17.60 | 27.27 | 32.75 | 36.63 | 9.20 | 50.00 | 5.00 | 64.00 | 6.40 | 71.87 |
| 2018-06-28 | 22.60 | 23.89 | 26.20 | 36.62 | 6.40 | 50.00 | 6.60 | 48.48 | 7.00 | 42.86 |
| 2018-07-09 | 16.00 | 26.25 | 30.30 | 36.43 | 6.40 | 78.12 | 6.80 | 76.47 | 10.00 | 56.00 |
| 2018-07-19 | 21.00 | 23.02 | 21.84 | 34.79 | 6.17 | 48.65 | 7.67 | 63.04 | 8.33 | 62.00 |
| 2018-07-30 | 7.00 | 40.00 | 26.20 | 43.95 | 4.20 | 71.43 | 5.40 | 62.96 | 5.20 | 80.77 |
| 2018-08-13 | 12.57 | 25.00 | 14.62 | 42.19 | 6.43 | 64.44 | 5.29 | 72.97 | 6.00 | 69.05 |
| 2018-08-20 | 7.86 | 30.91 | 23.98 | 41.45 | 6.14 | 62.79 | 5.14 | 72.22 | 10.29 | 69.44 |
| 2018-09-03 | 6.00 | 33.33 | 17.06 | 46.88 | 6.67 | 52.50 | 8.50 | 68.63 | 8.67 | 53.85 |
| 2018-09-11 | 8.67 | 30.77 | 14.33 | 41.86 | 6.33 | 57.89 | 4.83 | 62.07 | 13.50 | 32.10 |
|  | **13.34** | **28.71** | **23.03** | **37.91** | **6.55** | **56.19** | **6.62** | **60.23** | **7.82** | **57.92** |
| **σ** | **5.91** | **5.01** | **6.20** | **4.97** | **1.44** | **10.55** | **1.48** | **12.02** | **2.56** | **13.34** |
| **min** | **6.00** | **21.60** | **14.33** | **30.01** | **4.20** | **39.58** | **4.83** | **37.93** | **4.17** | **32.10** |
| **max** | **22.60** | **40.00** | **32.75** | **46.88** | **9.20** | **78.12** | **9.67** | **76.47** | **13.50** | **80.77** |

**Table S8.** Concentration of suspended sediment (SS) and organic matter (OMSS) contained in Maziarnia Reservoir

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **M-R** | | **M1** | | **M2** | | **M3** | | **M-D** | |
| **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** |
| [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] |
| 2018-05-08 | 25.05 | 35.55 | 18.89 | 41.18 | 14.67 | 54.55 | 9.00 | 66.67 | 9.80 | 63.27 |
| 2018-05-21 | 12.63 | 27.48 | 16.00 | 58.93 | 9.78 | 70.45 | 12.22 | 67.27 | 18.22 | 54.88 |
| 2018-05-28 | 6.16 | 42.25 | 20.25 | 49.38 | 9.25 | 70.27 | 5.75 | 91.30 | 6.50 | 84.62 |
| 2018-06-07 | 7.64 | 38.16 | 10.25 | 56.10 | 10.25 | 58.54 | 8.75 | 65.71 | 7.50 | 66.67 |
| 2018-06-19 | 13.24 | 39.30 | 13.00 | 61.54 | 7.50 | 76.67 | 6.00 | 83.33 | 10.50 | 64.29 |
| 2018-06-28 | 12.01 | 43.33 | 19.75 | 54.43 | 10.00 | 55.56 | 12.75 | 64.71 | 13.25 | 56.60 |
| 2018-07-06 | 11.70 | 41.51 | 21.75 | 51.72 | 11.33 | 64.71 | 8.67 | 69.23 | 17.00 | 54.90 |
| 2018-07-19 | 15.71 | 37.55 | 20.25 | 58.02 | 11.50 | 63.04 | 8.00 | 62.50 | 11.25 | 51.11 |
| 2018-07-31 | 14.78 | 44.59 | 18.25 | 65.75 | 13.25 | 73.58 | 10.75 | 81.40 | 10.25 | 78.05 |
| 2018-08-13 | 7,88 | 29.93 | 16.75 | 62.69 | 10.20 | 70.59 | 20.60 | 66.02 | 12.00 | 61.67 |
| 2018-08-21 | 12.32 | 39.43 | 20.00 | 47.50 | 16.25 | 70.77 | 13.75 | 74.55 | 13.50 | 62.96 |
| 2018-09-03 | 8.01 | 34.66 | 21.50 | 46.51 | 9.00 | 66.67 | 12.50 | 72.00 | 12.25 | 65.31 |
| 2018-09-11 | 9.03 | 38.41 | 19.00 | 68.42 | 65.00 | 88.21 | 13.00 | 84.62 | 12.00 | 66.67 |
|  | **12.01** | **37.86** | **18.13** | **55.55** | **15.23** | **67.97** | **10.90** | **73.02** | **11.85** | **63.92** |
| **σ** | **4.91** | **4.99** | **3.36** | **8.07** | **15.15** | **9.14** | **3.94** | **9.21** | **3.27** | **9.27** |
| **min** | **6.16** | **27.48** | **10.25** | **41.18** | **7.50** | **54.55** | **5.75** | **62.50** | **6.50** | **51.11** |
| **max** | **25.05** | **44.59** | **21.75** | **68.42** | **65.00** | **88.21** | **20.60** | **91.30** | **18.22** | **84.62** |

**Table S9.** Concentration of suspended sediment (SS) and organic matter (OMSS) contained in Nielisz Reservoir

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **N-R** | | **N1** | | **N2** | | **N3** | | **N-D** | |
| **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** | **SS** | **OMSS** |
| [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] | [mg∙dm-3] | [%] |
| 2019-05-08 | 14.57 | 27.45 | 31.80 | 28.93 | 14.71 | 43.69 | 22.86 | 38.13 | 18.14 | 37.01 |
| 2019-05-16 | 15.33 | 32.61 | 30.00 | 42.00 | 26.50 | 41.51 | 31.67 | 35.26 | 20.00 | 34.17 |
| 2019-06-10 | 12.57 | 36.36 | 50.58 | 37.16 | 52.33 | 38.22 | 22.00 | 57.95 | 25.41 | 44.44 |
| 2019-06-24 | 14.60 | 34.25 | 132.00 | 33.71 | 45.00 | 48.15 | 19.50 | 65.38 | 22.20 | 44.14 |
| 2019-07-09 | 6.00 | 45.83 | 46.75 | 44.92 | 53.40 | 38.95 | 45.40 | 39.65 | 37.60 | 40.96 |
| 2019-07-18 | 9.83 | 32.20 | 16.00 | 56.25 | 15.20 | 48.68 | 12.60 | 57.14 | 20.60 | 43.69 |
| 2019-08-07 | 10.38 | 32.53 | 24.21 | 54.78 | 45.60 | 31.58 | 14.80 | 48.65 | 19.40 | 61.86 |
| 2019-08-20 | 7.43 | 34.62 | 33.75 | 46.67 | 23.00 | 54.78 | 35.40 | 30.51 | 24.00 | 41.67 |
| 2019-08-27 | 10.67 | 30.00 | 37.33 | 71.43 | 24.80 | 41.94 | 14.80 | 64.86 | 23.40 | 50.43 |
|  | **11.26** | **33.98** | **44.71** | **46.21** | **33.39** | **43.06** | **24.34** | **48.62** | **23.42** | **44.26** |
| **σ** | **3.28** | **5.15** | **34.39** | **13.07** | **15.62** | **6.81** | **11.01** | **13.24** | **5.82** | **8.06** |
| **min** | **6.00** | **27.45** | **16.00** | **28.93** | **14.71** | **31.58** | **12.60** | **30.51** | **18.14** | **34.17** |
| **max** | **15.33** | **45.83** | **132.00** | **71.43** | **53.40** | **54.78** | **45.40** | **65.38** | **37.60** | **61.86** |