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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| River | Description | | Climate | CO2 µgCL-1 | FCO2  gCO2 | | CH4 µgC L-1 | FCH4\* gCO2eq | N2O µgN L-1 | FN2O\*\* gCO2eq | Ftotal\*\*\* gCO2eq | Reference |
| Saigon River (Vietnam) | Dominated by urban,  10M inhabitants | Tropical | | 3174 | 35.56 | | 5.89 | 0.64 | 3.03 | 8.79 | 45.0 | This study |
| Adyar River, India | Dominated by urban,  8M inhabitants | Tropical | | NA | NA | | 756 | 28.3 | 0.42 | 0.13 | NA | Rajkumar et al. 2008 |
| Zambezi River, Africa | Mainly mining, industrial and agricultural activities | Tropical | | 3600 | 12.4 | | 11.2 | 1.36 | 0.33 | NA | NA | Teodoru et al. 2015 |
| Saribas rivers, Malaysia | Non-urban, dominated by oil palm plantations | Tropical | | NA | 13.7 | | 0.75 | 0.08 | 0.23 | 0.03 | 13.9 | Müller et al. 2016 |
| Nanfei River, China | Dominated by urban,  10M inhabitants | Subtropical | | 8052 | 39.6 | | 66 | 3.14 | 5.7 | 2.24 | 45.0 | Zhang et al. 2021 |
| Shark River estuary, USA | Mangrove‐dominated estuary | Subtropical | | NA | 4.048 | | NA | 0.03 | NA | 0.03 | 4.1 | Reithmaier et al. 2020 |
| Guadalete Estuary, Spain | Receive discharge of urban effluents and agriculture crop | Mediterran-ean | | NA | NA | | 5.7 | 0.22 | 3.84 | 1.22 | NA | Burgos et al. 2015 |
| Bay of Cádiz (SW Spain) | A tidal creek receiving waters of fish farm | Mediterran-ean | | 864 | 5.5 | | 0.59 | 0.04 | 0.384 | 0.56 | 6.1 | Ferrón et al. 2007 |
| Lower Seine River, France | Heavily urbanized and industrialized | Temperate | | 2500 | NA | | 2.75 | NA | 2.5 | NA | NA | Marescaux et al. 2018 |
| Duliujian River, China | Natural river | Warm temperate | | 480 | 0.56 | | 1.2 | 0.12 | 0.001 | 0.36 | 1.0 | Hu et al. 2018 |
| Po River, Italy | Nitrate pollution. Intensive farming, 16M inhabitants | Continental temperate | | 5483 | 22.7 | | 2.54 | 0.28 | 4.69 | 22.35 | 45.3 | Laini et al. 2011 |
| \* CH4 flux in gCO2eq/m2/d = FCH4 gCH4 m2d-1 x 28 | | | | | | \*\*\*Ftotal is total CO2 equivalent flux = FCO2 + FCH4 + FN2O | | | | | | |
| \*\* N2O flux in gCO2eq/m2/d = FN2O gN2O m2d-1 x 298 | | | | | | NA is not available | | | | | | |
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