

| River | Description | Climate | CO ₂ μgC L ⁻¹ | FCO ₂ gCO ₂ | CH ₄ μgC L ⁻¹ | FCH ₄ * gCO ₂ eq | N ₂ O μgN L ⁻¹ | FN ₂ O** gCO ₂ eq | F _{total} *** gCO ₂ eq | Referen ce |
|---------------------------|---|-----------------------|---|--------------------------------------|---|---|---|--|---|--|
| 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 | Mediterranean | 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 | Mediterranean | 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

***F_{total} is total CO₂ equivalent flux = FCO₂ + FCH₄ + FN₂O

** N₂O flux in gCO₂eq/m²/d = FN₂O gN₂O m²d⁻¹ x 298

NA is not available