

TABLE S2 | Summary of historical human main impacts on the Doce River basin during the 20th and 21st centuries – for purpose of Fig. 4. (†): Due to the lack of literature, this event in the Doce River basin was estimated from reports for other Brazilian estuaries and rivers.

| Period (yr) | Events | Impacts on Doce River basin | References |
|--------------|-------------------------------|---|--|
| 1903 - 1910 | Railway building | Loss of riparian vegetation; erosion | (Espindola, 2015; Carvalho, Matos, 2016) |
| 1910 - 1930 | Lumber cycle | Loss of riparian vegetation; erosion | (Espindola, 2015) |
| 1920 - Today | Agriculture expansion | Loss of riparian vegetation; pollution, erosion | (Espindola, 2015) |
| 1930 - Today | Industry expansion | Riparian vegetation loss; fragmentation; pollution | (Espindola, 2015) |
| 1950 - Today | Urban expansion | Loss of riparian vegetation loss; pollution, erosion | (Espindola, 2015) |
| 1950 - Today | Invasive species | Native species loss | (Fragoso-Moura <i>et al.</i> , 2016; Su <i>et al.</i> , 2021); |
| 1931 - 2005 | Dam construction | Native and rheophilic species loss; streamflow reduction; riparian vegetation loss; | (Coelho, 2006) |
| 1970 's | Monofilament nylon nets † | Native and rheophilic species loss; extinction of apex predator; pollution | (Cordell, 1974; Reis-Filho <i>et al.</i> , 2016; Barbosa-Filho <i>et al.</i> , 2020) |
| 1968 | Drainage and rectification | Rheophilic and native species removal; riparian vegetation loss | (Néspoli, Portuguese, 2009) |
| 2015 | SAMARCO - Mining dam collapse | Mass mortality; habitat loss; pollution, erosion | (Escobar, 2015; Marta-Almeida <i>et al.</i> , 2016) |

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