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SWIMWAYS

Understanding connectivity
within the life cycles of coastal fish

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Biodiversity warehouse atlas software enables user-friendly distribution maps for the whole Trilateral Wadden Sea area

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The third and recently published edition of the online “Fish Atlas of Germany and Austria” <<https://biodiversity.hs-bremen.de/fische/#!/home>> also shows the distribution of marine fish species. The atlas consists of species descriptions consisting of distribution maps, fact sheets, photo galleries and literature references. For the first time, fish distribution maps for the entire trilateral Wadden Sea area also were included. The data from the Trilateral Wadden Sea Area mainly originate from a first ad-hoc literature search and do not claim to be complete. However, the first online distribution maps show that the atlas offers a user-friendly web-based system for the coordination, evaluation and communication of distribution data. We see potential users in the scientific field as well as in official nature and species conservation and environmental education. Citizen Science data can also be integrated via simple interfaces. All data are freely accessible and are available for non-commercial applications. The technical coordination of the fish database is carried out by the German Ichthyological Society (Gesellschaft für Ichthyologie e.V.). The development of the underlying software (Biodiversity Warehouse) takes place at the University of Bremen in a joint working group of biology and computer science. The technical implementation takes place as a distributed system with PostGIS as spatial database system, OSM as source of the basic maps, GeoServer for the publication of map overlays, java and node.js for the implementation of backend services and Javascript APIs such as Angular, Leaflet, D3.js for the implementation of the frontend.