

Mapping and Sharing Global Water Data

BlueEarth Data – a Deltares initiative

Water management requires access to reliable, high quality data about the status of a water body or catchment. For example, flooding is a major cause of loss of life and damage to property, livelihoods, and economies. Economic growth and urbanization are putting more and more assets and people into flood-prone areas. However, decisions related to water management are often poorly informed due to the lack of data, particularly in less-developed regions. In addition, preparing for future situations requires data on a variety of hazards like erosion, waves, and extreme events. Until now, these datasets were not readily available within one environment. Deltares now hosts a platform that shares operational and historic water-related data for oceans, coasts and rivers at a global scale for free; an initiative called BlueEarth Data (<https://blueearthdata.org>).



Figure: the BlueEarth Data platform, accessible at <https://blueearthdata.org>

Following our motto 'Dare to Share' BlueEarth Data combines the various forecast systems and data services developed by Deltares into one web-based platform. The platform is a free, web-based application to support the study and sharing of integrated water and subsoil-related data. It presently provides indicative data, which is primarily intended for professional specialists and researchers.

BlueEarth Data will be further developed in 2021 and beyond. Foreseen developments include the addition of more datasets and the further development of API's to allow for easy access to the data from other applications. This way, downstream services like "Boundary Conditions as a Service" or "Models as a Service" can be developed on top of BlueEarth Data. During this DigiShape inspirational session, we invite you to get involved. Either as a user of the data and future services linked to this, or in the further co-development of the platform and connected services.