

## Digital Typhoon and open science - a trans-disciplinary platform for typhoon-related data

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Digital Typhoon is a transdisciplinary platform for typhoon-related data. It is the database of not only research data, but also society and citizen derived data such as news text and social media. It covers not only current data, but also past data to make comprehensive data archives, such as 40 years of satellite and ground observation data and 100 years of weather chart data. A variety of typhoon-related data is not only stored in silos, but also linked with other data across domains, and indexed using data-driven algorithms to make them findable. In short, Digital Typhoon offers the collection of best practices about how data can be integrated and indexed to make them findable, accessible, interoperable and reusable (FAIR). As a result, Digital Typhoon has been used not only by scientists but also by citizens for a variety of purposes such as for research, work, and hobby, with annual page views of 10 to 20 million for more than 10 years since 2003. In the context of Open Science, we share our experience on more than 10 years of operating this platform, and our challenges to make this platform sustainable against internal and external problems.

キーワード：台風、デジタル台風、オープンサイエンス、超学際的プラットフォーム、コミュニケーション、気象

Keywords: typhoon, Digital Typhoon, open science, transdisciplinary platform, communication, meteorology