Current status and problems of geodetic observation data distribution

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Geodetic technologies and geodetic data are now regarded as key infrastructure in the modern society. Space geodetic techniques such as GNSS, VLBI, SLR and DORIS totally rely on the global observation network, and therefore the 'service' organizations are formed under International Association of Geodesy to manage the international scientific/technological activities. Each service has its own data centres where the observation data and the analysis products are stored. Users can download them for free of charge.

Considering the fact that the worldwide institutes have spent a lot of expenses and efforts on the geodetic observations, we need to find a way to somehow reward them so that they can continue the operation or upgrade the system. One possibility for the future is the use of data DOI (Digital Object Identifier) which can be assigned to any style of data sets. When users publish their papers etc, they will be requested to cite the data DOI provided by each geodetic service in the reference section of their publication. By clicking the URL link, the readers can directly be guided to the landing page where the detailed description and contributors are given as well as the link to the data set. The data DOI scheme is expected to make the data providers more visible and even promote the usage of the data and the technology.

Early examples in sea-floor crustal deformation (Yokota et al., 2018, doi:10.1594/PANGAEA.885139), and a just-begun activity in GGOS (Global Geodetic Observing System) will be introduced.

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