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HydroSOS: a pilot global Hydrological Status and Outlook System integrating national to global scale hydrological services for increased resilience to hydro-climatic risks

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Consistent hydrological status and outlook information across transboundary basins or regions of shared hydrological interest are not often available. Furthermore, whilst large-scale modelling capabilities are continually improving, there is an information and confidence gap between locally informed hydrological status information products and those developed globally.

HydroSOS is World Meteorological Organisation initiative that aims to increase global resilience to hydro-climatic risks through the production of hydrological status and outlooks assessments at different scales around the world. Currently in a pilot phase, HydroSOS is being developed through a collaboration between National Hydrometeorological Services, transboundary basin organisations, global modelling centres and the research community. The system will provide an appraisal of where current hydrological status is different from “normal”, as well as sub-seasonal to seasonal outlooks indicating whether this is likely to get better or worse over the coming weeks and months.

The HydroSOS programme consists of five main activity streams:

- Increasing the interoperability of hydrological status and outlook products through **Common Technical Specifications**.
- Increasing national capabilities to generate hydrological status and sub-seasonal to seasonal outlook products through **Guidance on Methods and Tools**.
- Increasing the utility of large-scale hydrological status and outlook modelling through **Co-design of Global Products**, with international partners working from local to global scale.

- Increasing shared production of transboundary hydrological status and outlook products through **Regional Pilots**, initially in South Asia and the Lake Victoria Basin.
- Integration of hydrological status and outlook products for national, regional and global users through a **Demonstration Portal**.

This PICO contribution will present progress in the pilot project to date, including a hands-on demonstration of the web portal.