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Utilisation and Further Development of Space Science Results in the ESA SSA Programme Space Weather Service Network

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ESA SSA Programme is approaching the end of its second period. Service development activities within the current period aim at advancing the SSA SWE Service Network from the initial utilisation of existing European assets toward development of these and new assets together with the associated coordination infrastructure necessary to provide consistently reliable services.

The SSA SWE Service Network is based on a federated architecture where service provision is carried out by Expert Service Centres in the Programme Member States with overall coordination and helpdesk functions provided by a central node and coordination centre located at the Space Pole in Brussels, Belgium.

The SSA SWE Service Network builds on the wealth of space weather expertise available within the Member States, and consequently, as the network continues to develop, emphasis will continue to be placed on building services based on demonstrated space science advances in key areas such as those highlighted by the COSPAR-ILWS Space Weather Roadmap, published in 2015. Activities supported by programmes including the ESA technology programmes, EC FP7 and H2020 have all demonstrated promising results, and the SSA SWE Network is actively investigating their potential application to SSA SWE Customer Requirements, and in many cases already adopting these as part of the suite of products provided via the Network to its registered users.

This presentation will provide an overview of recent advances in the SSA SWE Service Network, emphasising the utilisation of scientific results within a pre-operational context. The presentation will show the layout of the federated Expert Service Centres, highlighting ongoing and upcoming service developments and provide a perspective on the service development plans for the next phase of the programme.