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Collating SOLAS (Surface Ocean – Lower Atmosphere Study) data: beyond stewardship

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SOLAS is an international programme directed at understanding the exchanges of climate-relevant gases and particles across the air-sea interface. To properly assess the global significance of such processes, it is essential to holistically evaluate and interpret all available data, using such information to generate flux datasets and climatologies.

Our SOLAS integration project (www.bodc.ac.uk/solas_integration) is working with the relevant communities at the national and international level to realise this aim, co-funded by NERC and the ESF/EU COST programme Over the past 2 years, the SOLAS Project Integrator (Dr Tom Bell) has interacted not only with measurers, data managers and modellers, but also the ultimate users of end-products – policy makers and the public, who need to know how the dynamic Earth system will respond to global warming.

This poster summarises the strategies and approaches used to date in order to realise our goals. We focus on the creation of a SOLAS Meta-database and Portal (using NASA's Global Change Master Directory) and the need for targeted products with specific scientific value. Example database products are presented, in particular the creation of a DMS climatology and a project to assess aerosol iron input to the ocean.