

SOLAS-Ireland has had three national workshops since being set up in 2004. Proceedings are available on request (from Colin O'Dowd).

In summary, SOLAS-Ireland has succeeded in bringing together scientists from different SOLAS-related disciplines within Ireland. Some new developments in terms SOLAS-Ireland: following Higher Education Authority funding, the Mace Head Atmospheric Research Supersite is expanding into a Mace Head Ocean-Atmosphere Supersite with the installation of a wave radar, a met-ocean-chemistry buoy (funded and operated by the Marine Institute), and a cloud radar amongst other aerosol related equipment.

The EPA have funded a large-scale project on air-sea exchange processes (*Project: Exchange at the Air-Sea Interface: Air Quality & Climate Impacts, coordinated by Colin O'Dowd with partners Harald Berresheim, Michael Hartnett, Dagmar Stengel and Maria Cristina Facchini*). The project focuses on aerosol and ozone flux measurements; algae response to environmental change and coupled ocean-atmosphere regional climate model simulations. The Marine Institute have funded a project on CO₂ fluxes and ocean acidification (*Project: Impacts of Increased Atmospheric CO₂ on Ocean Chemistry and Ecosystems, coordinated by Colin O'Dowd with partners Brian Ward, Rachel Cave, Evin McGovern and Glen Nolan*). This project will establish a pCO₂ buoy monitoring network off the Irish coast and will continue CO₂ flux measurements at Mace Head.

Other projects that have been funded include coupled ocean-atmosphere modeling at Met Eireann (Ray McGrath funded by EPA) and measurements of reactive gases from algae emissions (Dean Venables at University College Cork, funded by SFI). Overall, there are significant developments in key SOLAS-related research in Ireland.