Ole Nielsen

Computational Scientist

Tsunami Risk Modelling

I lead the development of software to mathematically model the effect of tsunamis on coastal communities. This involves computational fluid mechanics, GIS (Geographic Information Systems), large scale data manipulation, 3D visualisation and complex information management. I also develop new directions for the Natural Hazard Impacts Project, contribute to better use of computational resources and improved software development practices in the organisation.

I value the collaborative project work and the environment fostered by Geoscience Australia. It is a privilege to work with cross disciplinary team members who are not only very professional but also value and respect each others skills, abilities and experiences. The synergies generated through the combined knowledge and experience is far greater than if we all worked in isolation. Working within the APS also means that we are aiming at results which will benefit the whole community.