

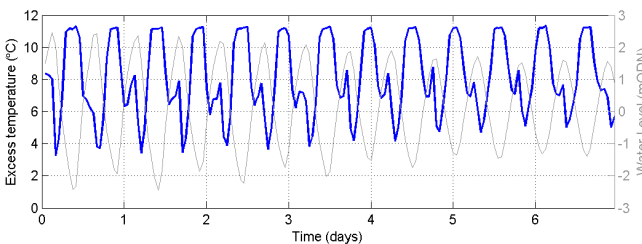
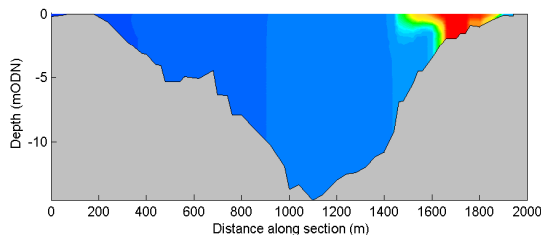
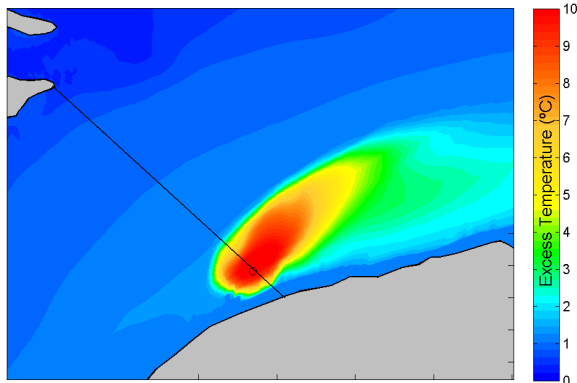
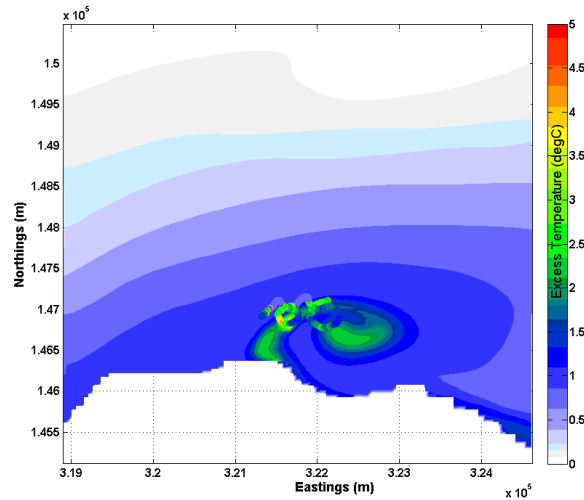
Plume Studies

About

Understanding the evolution of sediment or discharge plumes in the marine environment is fundamental when undertaking environmental impact assessments associated with dredging and related disposal operations, offshore construction, industrial cooling water or effluent discharges, and oil spills.

ABP Marine Environmental Research Ltd (ABPmer) has a dedicated modelling team with extensive experience and expertise in plume dynamics.

Enhanced by data visualisation tools including animations and graphical representation, ABPmer can provide a range of 2D and 3D modelling services that take account of potential influencing factors such as plume momentum and source of discharge. Such studies have a variety of applications.



Intake/Outfall Studies

ABPmer has undertaken a range of thermal plume modelling studies to assess recirculation and environmental issues associated with different intake/outfall configurations under a range of meteorological and geo-morphological conditions.

Maintenance & Capital Dredging

ABPmer has the capability to model the fate of sediments disturbed during dredging operations, with experience of deriving suitable sediment release rates for a range of dredgers and environments, based on a sound understanding of dredging processes.

Dredged Spoil Disposal

ABPmer has significant experience in studies assessing the fate of dredged spoil in the marine environment, representing the temporal and 3 dimensional spatial variations in disposal rates in suitable hydrodynamic models.

Offshore Construction

ABPmer has modelled the fate of sediments disturbed during a range of offshore construction works including cable laying operations, turbine installation and piling activities.

Oil Spill/Contaminant Dispersion

An understanding of initial dilution and subsequent dispersion of oil and contaminants in the marine environment has been gained through involvement in a range of modelling studies and audits.

Further Information

Please phone Rachel White, ABPmer : 02380 711840

