

# BEACH HAZARD ASSESSMENT AND EXPERT WITNESS SERVICES

**Location:** various

**Project Dates:** 2014 - present

**Clients:** local councils, land owners, coroners

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## Scope of work:

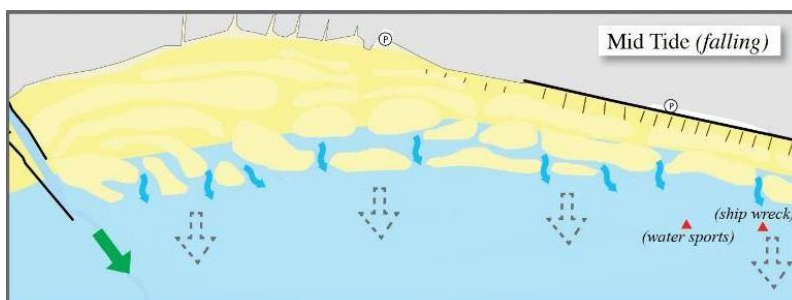
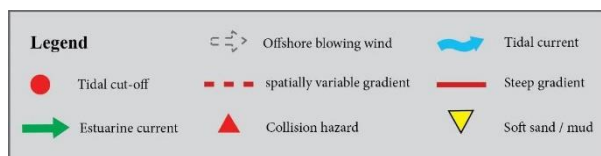
- Assessment of beach morphology and associated bathing hazards
- Investigation of forcing conditions (wind, waves, tide, and currents)
- Spatial and temporal mapping of key hazards
- Expert witness statements for coroners inquests

## PROJECT DESCRIPTION

Following a number of research and consultancy projects with the RNLI, CMAR have undertaken a number of beach hazard assessments, focussed on understanding the physical hazards that increase life risk to water-users for local councils and land owners. Common beach hazards include rip currents, topographic currents, estuarine currents, offshore blowing wind, wave breaking, and collisions between water-users. We identify bathing hazards at each site based on the morphology, environmental forcing conditions (wind, waves, tide, and currents), life guard observations, and where necessary in-situ measurements. We have also contributed expert witness statements for a number of beach incident and coroners inquests in the UK and abroad.



*Upper:* A busy UK beach in summer, featuring rip currents, breaking waves, and conflicting water use activities. *Lower:* Example beach hazard map for a multiple intertidal barred beach



## Coastal Marine Applied Research

