



Centre for Marine and Coastal Studies Ltd

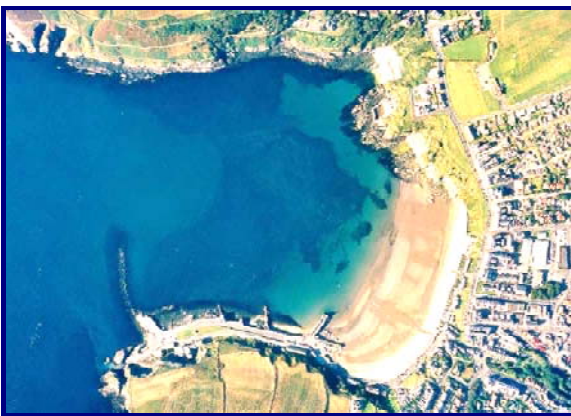
## Coastal Zone Services

To work effectively in the coastal zone requires knowledge of marine, intertidal and terrestrial disciplines.

CMACS has personnel with expertise in each of these areas and can bring together specialist teams to meet the requirements of our clients.

We have worked successfully with both private sector clients and regulators, our experience includes:

- Coastal defence strategy for Colwyn Bay, North Wales;
- CMACS assisted a marina at Aberystwyth to gain consent for maintenance dredging then monitored the dredging to ensure compliance with licence conditions;
- Scoping study to identify potential sites for power cables to cross beaches in Liverpool Bay;
- Collation of scientific information to support Environment Agency review of discharge consents under the Habitats Directive.



GIS is an important tool for our coastal services team



Coastal habitat mapping, using GPS and GIS systems, underpins many studies

### *Summary of Services*

CMACS offers a comprehensive range of environmental and ecological services including:

- ***EIA for sea defences, ports & marinas and other coastal developments***
- ***Intertidal habitat surveys***
- ***Water quality and sediment analyses***
- ***Coastal bird surveys***
- ***Protected species surveys***
- ***Saltmarsh surveys, including NVC***
- ***Development of survey and monitoring programmes***
- ***Planning liaison***
- ***Expert Witness***