



Centre for Marine and Coastal Studies Ltd

## *Ornithological Services*

National and European legislation afford a high level of protection to most bird species, particularly those dependent on coastal habitats such as mudflats and saltmarsh.

Before developments proceed impacts to birds need to be considered; this can lead to mitigation to reduce impacts and ongoing monitoring.

CMACS is highly experienced in providing environmental services for coastal zone activities such as ports and marinas, offshore wind farms and sea defences. Our experience includes:

- Long term monitoring of wintering shorebirds, mudflats and invertebrates on the Humber;
- Co-ordination of ornithological monitoring for Burbo offshore wind farm;
- Detailed analysis of bivalves ('shells') as diving duck food resources in Liverpool Bay.



Shorebird survey on the Humber estuary



Mudflats are important feeding areas for many bird species, especially in winter

### *Summary of Services*

We provide our clients with an efficient and cost-effective service, ensuring that any legal obligations and development licence conditions are met.

- ***Shorebird surveys***
- ***Vessel based seabird surveys***
- ***Ecosystem studies, e.g. beach sediments, invertebrates and shorebirds***
- ***EIA and Monitoring***
- ***Incorporation of ornithological work with other environmental and ecological project elements***