

# The National Centre for Environmental Data and Surveillance

## Gulliver



ENVIRONMENT  
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# Gulliver



Airborne platform used by the Environment Agency

The National Centre for Environmental Data and Surveillance provides opportunities for the Environment Agency and external organisations to obtain imagery of specific targets at specific times. These images are available in greater spectral and spatial detail than is available from commercial satellites. In order to make these images more widely available, a map-based interface called **Gulliver** has been designed and is available on CD-ROM. This allows the user to navigate the coastline and view images at will.

The CD-ROM is intended as a shop window on the aerial coastal survey conducted by the Environment Agency. It covers the whole coastline of England and Wales over a specific time period. It contains the following data sets for a single survey:

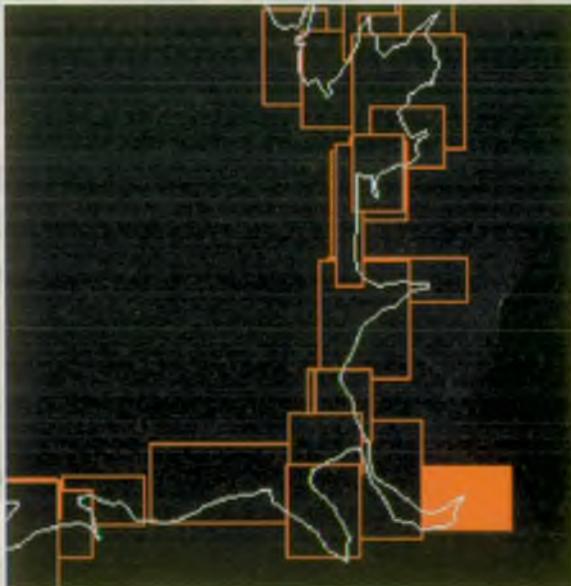
- full colour imagery of the coastline;
- water quality data from laboratory analysis of samples;
- metered parameters, for example salinity and temperature from the boat surveys; and
- on board chemical analysis of nutrients.

The image data presented on the Gulliver CD-ROM are collected from a small twin engine light aircraft platform using an optical system called a Compact Airborne Spectrographic Imager (CASI). This system records the brightness of the surfaces below in specific parts of the spectrum, in thin strips perpendicular to the aircraft's track. The recorded data can be processed to reveal hidden features that could never be discerned using conventional techniques. Three of the 15 spectral bands measured are presented on the CD-ROM.

The images can be cut from the viewing application and pasted into other software packages; some packages will have the capability to process the images for illustrative purposes.



Image of the Mersey displayed using Gulliver



Gulliver map screen for North West England

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3. No statements on the environment are associated with the imagery without the prior permission of the Environment Agency.
4. Any reports or papers that use the images are copied to the National Centre for Environmental Data and Surveillance.

One in a series of booklets describing techniques used by the Environment Agency's National Centre for Environmental Data and Surveillance.

For further information please contact Dr Richard Saulil or Dr Alison Matthews at the National Centre address shown overleaf

**MANAGEMENT AND CONTACTS:**

The Environment Agency delivers a service to its customers, with the emphasis on authority and accountability at the most local level possible. It aims to be cost-effective and efficient and to offer the best service and value for money.

Head Office is responsible for overall policy and relationships with national bodies including Government.

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**ENVIRONMENT AGENCY  
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The 24-hour emergency hotline number for reporting all environmental incidents relating to air, land and water.

**ENVIRONMENT AGENCY  
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