

# Pixalytics

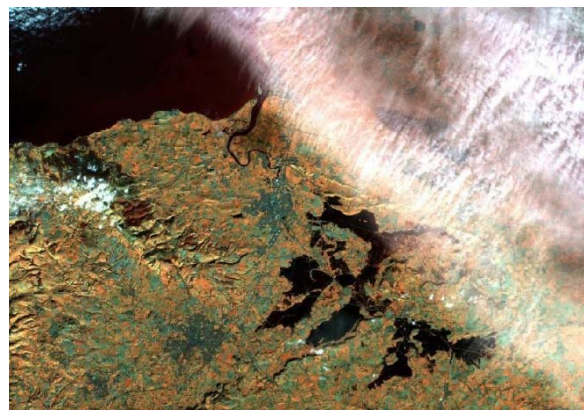
## Flooding and Coastal Management



Current climate predictions all forecast an increase in the frequency and severity of worldwide storm events. Catastrophic flooding in the UK in early 2014 resulted in large inland areas of the country, such as the Somerset Levels, being submerged for weeks. Coastal towns did not escape unscathed either; many were flooded or experienced landslides as the storms accelerated rates of coastal erosion.

Above: East Devon coastline, UK: Plumes of sediment deposited by the Exe and Teign rivers following heavy storms. Data courtesy of the US Geological Survey.

Over the last 40 years satellites have been mapping the Earth's surface and provide an unrivalled record of environmental trends. The data can be used to monitor key coastal management issues such as sediment transport, river levels and coastal erosion. In addition both the extent and depth of flood water can be derived from altimetry; see our Water Height product sheet (<http://bit.ly/10cXXwW>).



Above: Landsat images show the Somerset Levels; left image taken on the 4<sup>th</sup> Nov 2013 and right image on the 23<sup>rd</sup> Jan 2014. Areas in black show the extent of flood waters, with a large band of cloud visible on the 23<sup>rd</sup> Jan (data courtesy of the US Geological Survey).

Pixalytics can deliver a flexible range of products to support projects. Call Sam or Andy today to discuss your requirements on +44 (0)1752 764407.

Pixalytics Ltd. [www.pixalytics.com](http://www.pixalytics.com). 1 Davy Road, Plymouth Science Park, Plymouth, Devon, PL6 8BX.

T: +44 (0)1752 764407. E: [enquiries@pixalytics.com](mailto:enquiries@pixalytics.com)