Case Study - ERDAS IMAGINE
Quick and Effective Flood Mapping

STERLING GEO ENGINEERING GEOGRAPHY | HEXAGON GEOSPATIAL CHANNEL PARTNER

"ERDAS IMAGINE successfully dealt with a range of data issues, including cloud cover at the time the images were taken."

Emily Winter, Geospatial Support Engineer at Sterling Geo

During the winter of 2013/14 the UK experienced the wettest weather since records began in 1910. Huge areas of the country were underwater, with over 6,500 homes affected nationally. Arguably the worst affected area was the south-west, particularly Somerset and Gloucestershire.

"I was able to vectorise the flood outline and overlay it onto a satellite image which was obtained before the flooding occurred."

Sterling Geo used the ERDAS IMAGINE Spatial Modeler to rapidly extract the areas of flooding captured by Landsat 8. This was done by applying the NDWI (Normalised Difference Water Index) and NDVI (Normalised Difference Vegetation Index) to the data.

The resultant layer was then vectorised to show the extent of the floods. This flood analysis provided invaluable insight for those involved with planning the clean-up operation, as well as for future flood mitigation work.

"This workflow allows easy repetition of the extraction process and quick production of shapefiles which outline the size and location of the floods."

To use and download this model, please visit our website at www.sterlinggeo.com.

Alternatively, to find out more about ERDAS IMAGINE, please email us at enquiries@sterlinggeo.com or call us on 0800 912 0988.