

Geocurve completes the first multi-dimensional survey of the Norfolk Broads National Park

Using the latest technology within unmanned aviation and hydrographic surveying, Geocurve has created a complete 3D model of the entire flood defence and river bed network of the Norfolk Broads National Park, covering 135 linear kilometres.

Historically it has been difficult to record the water's edge due to the dense reed beds native to the Norfolk broads. Using a fixed wing UAV (Unmanned Aerial Vehicle) and state of the art photogrammetry software in conjunction with engineering inputs, Geocurve has defined a method of surveying large areas that is safer, more efficient and significantly more cost-effective than traditional surveying techniques.

Geocurve's work on the Norfolk Broads National Park included surveying the condition of the river banks defending highly populated areas and valuable agricultural land. By flying UAVs with high resolution cameras we were able to carry out condition surveys without the risk of placing survey teams in remote locations.

Using the data captured we then interlaced aerial survey and hydrographic data to create a full 3D model. Level accuracies have been reduced to



+/- 50mm allowing the Environment Agency to monitor points at which the river wall has become critically low, as well as the volume of water that can be retained between opposing flood defences.

Surveying in this manner can significantly reduce overheads associated with surveys of this scale, with an estimated cost saving of 40% and the delivery format of Geocurve's survey packages means that asset managers are placed in the correct location without the need to leave the office.

With our extensive experience in flood defence surveying in conjunction with a history of topographic and survey inspection, Geocurve remain market leaders in the use of UAV technology for this purpose.



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