



Project student: Christopher Richard Sneddon

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Principle supervisor: Dr David Coplestone (University of Stirling)

Co-supervisor: Dr Andrew Tyler, Dr Peter Hunter (University of Stirling)

Industry supervisor: Dr Nick Smith (National nuclear laboratory)

Project title: There and back again; a sediment story

Project outline:

The project will investigate the physical remobilisation of contaminants within the intertidal area and attempt to understand the potential fate of these contaminants given likely changes in climate. Intertidal and saltmarsh areas in the River Ribble and Ravensglass estuary will form the primary study sites where contaminant remobilisation will be investigated. The project will have emphasis on contaminant identification via remote sensing, and aim to improve the ability to characterise sediment properties given advances in technology. The project will also investigate the potential health and environmental impacts from Ravensglass contaminants under a range of remobilisation scenarios.

Biography:

Christopher has a BSc (Hons) in Environmental Science and an MSc in Environmental Management. His past research includes the application of forward scattering gamma ray spectrometry to peatlands to investigate their ability to attenuate gamma rays. He has also studied the spectral characteristics of a range of plant functional types through spectral analysis for the purpose of heterogeneous surface classification. He later went on to work for the University of Stirling's UKAS accredited Environmental radioactivity laboratory, where he conducted analytical work on a daily basis in conjunction with novel investigations. Most recently he has investigated morphological change at Dalgety Bay via historic air photography, to construct a chronology of coastal change.



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