

Process studies for improving regional modelling

Measurements of bedforms, hydrodynamics, suspended sediments and bedload

Studies in nearshore sandy coastal sites and muddy estuarine environments



Utilising latest technologies to measure nearbed sediment transport processes

Flow

ADCP upward looking , Aquadopp HR downward looking , ADV

Suspension

LISST 100x , LISST Holo , ABS , OBS , Settling tubes

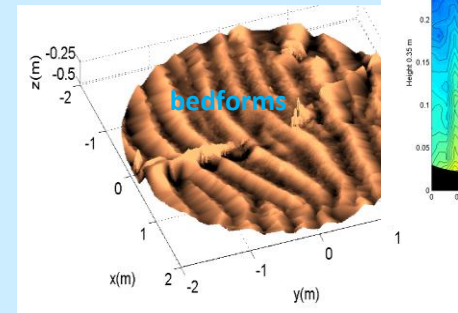
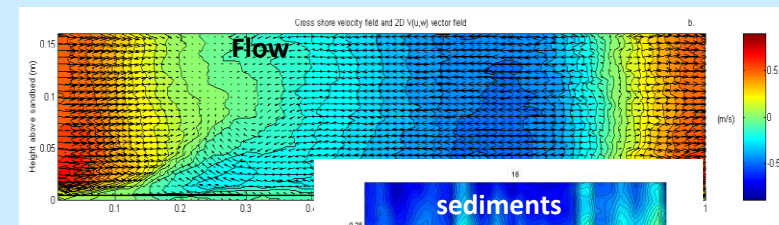
Bedforms & Bedload

3D Acoustic Ripple Profiler

Environmental

1 CTD , RAS-100

Dynamic interactions with feedback



Assess and develop process based models and improve parameterisations to advance regional modelling

Impacts of processes including, but not only, flocculation, cohesive bonding, fauna and flora on sediment transport and morphological change/stability