



UCD School of Geography Seminar Series

Dr Xavier Monteys, GSI Coastal and Marine Unit

Monitoring Coastal Change: Geological Survey Ireland

Date: 31st of March 2022

Time: 15:00 – 16:00

Where: Zoom - <https://ucd-ie.zoom.us/j/66632988518>

Abstract:

Geological Survey Ireland (GSI) monitors and analyses changes to Ireland's coastline and combines oceanographic, hydrological and topographic information to anticipate how the coast may respond to future conditions. This information supports environmental, infrastructure, planning and coastal management decisions. GSI is mapping the Irish coast and producing a national coastal vulnerability assessment motivated by expected accelerated sea-level rise (SLR) using a Coastal Vulnerability Index (CVI). Geological Survey Ireland quantifies coastal change by calculating trends in erosion or accretion over time by applying Remote Sensing technologies in innovative ways to advance our understanding of coastal systems and their hazards. It participates in the European Space Agency's Coastal Erosion from Space project to develop innovative Earth observation products to support the assessment of coastal erosion.

About the presenter:

Xavier Monteys is Senior Geologist in the Marine and Coastal Unit at Geological Survey Ireland. He joined GSI in 2001, working as a marine geologist in the EEZ deep-water mapping. In 2007, he started working in the INFOMAR program, focused mainly on mapping shelf and coastal areas. He is currently is the Project Lead in GSI for Coastal monitoring. He is leading the Irish participation in the European Space Agency's Coastal Erosion from Space project to develop innovative Earth observation products to support the assessment of coastal erosion. Since 2010 he has been involved in a number EU- funded projects (e.g. EMODnet-bathymetry, FP7 Geoseas) and at present leads Seabed minerals in EU EMODnet-geology and IT platforms in GEO-ERA MINDeSea. He has been involved in several EU Interreg projects: IMAGIN in offshore aggregates and currently in the CHERISH in the marine heritage.