

Multibeam Echo Sounder bathymetric and backscatter data was processed to map the continental shelf of the Basque country from -100 m to -200 m depth. Gradient and aspect maps were derived from bathymetry and together with grab sample showed a western rocky side and an eastern flatter area with a sedimentary cover. The geomorphological map described erosional features: straight north orientated canyons and a steep continental slope. Depositional formations were identified: a localized infralittoral prograding wedge and two types of subaqueous dunes over the sedimentary cover (2D straight asymmetrical very large dunes and 2D or 3D asymmetrical large or very large dunes). Anthropogenic impacts were observed with trawl marks and the Gaviota platform and pipelines. This thesis provides high resolution data with a first general approach to the description of the different features.