A geological survey was conducted in July 1992 on the coastal platform in the Bay of Carini and in a tract between the Isola delle Femmine and Capo Gallo (north-western Sicily). The sea floor was mapped in great detail to obtain geomorphological and topographical maps of the continental platform in this area. Forty-three samples of superficial sediment were collected using a Shipeck grab sampler. Additionally, Side Scan Sonar profiles (100kHz) were taken. A Remote Operated Vehicle (R.O.V.), deployed along transects perpendicular to the coast, and immersions by SCUBA diving (A.R.A.) were used to calibrate the signals and for a biological study, too.

By all these methods of investigation, it has been possible to determine:
- some significant morphological structures
- the distribution of sediment characterize by different texture
- the areal limits of seagrass meadows (Posidonia oceanica and Cymodocea nodosa) on bottom ocean

All data and observations have been collected and mapped following criteria and methods proposed by Italian Geological Survey to realize an experimental geomorphological cartography of a marine coastal area.

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