

DISTRIBUTION OF MACROBENTHIC PLANTS, AND  
RECENT SEDIMENTS ON THE SEA-FLOOR OF THE  
ANAMUR BAY (TURKEY), NE-MEDITERRANEAN, MAPPED  
WITH SIDE-SCAN SONAR.

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A side-scan sonar system was used to obtain continuous acoustic pictures in the sea-floor along 14 lines in the Anamur Bay, in 1984-1986 (Figure 1). Additionally, a total of 94 surface sediment samples including benthic organisms were collected in the study area.

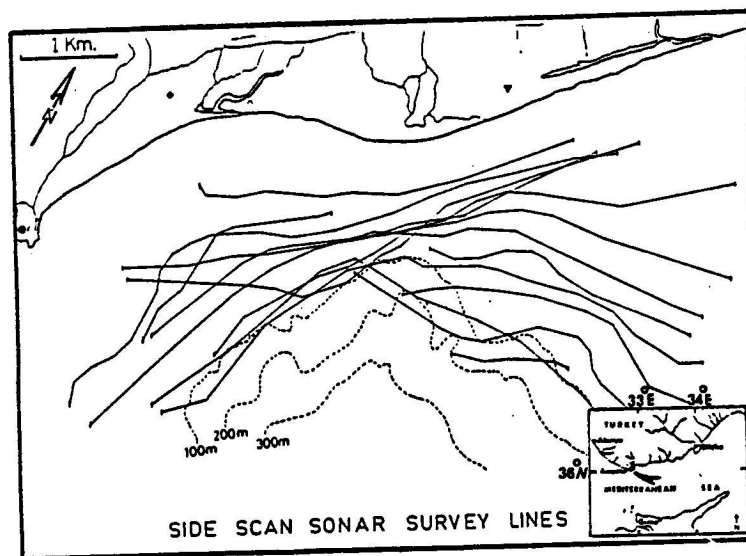


Figure 1. Side-Scan sonar survey lines.

Sediments overlying the sea-floor consisted of mixtures varying in gravel-, sand-, and mud-sized components. These sediments were partly infilling the Anamur submarine canyon, which is believed to have onshore-offshore extend. Three major zones can be distinguished on the basis of the grain-size distribution of the surficial sediments. These are the coastal zone, which is covered mainly with gravel; a large part of the shelf covered with sand, and the slopes and valleys/channels of the canyon covered with mud (Figure.2).

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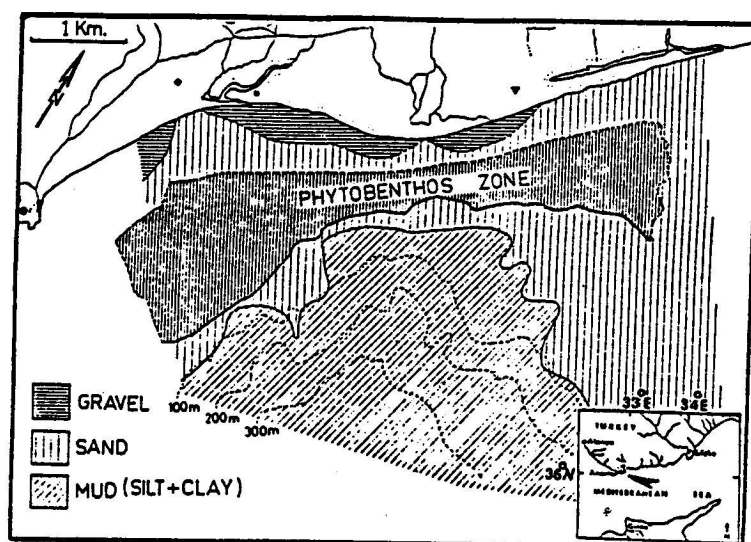


Figure 2. Map showing distribution of surface sediments and other features on the sea-floor based on sonographs.

Of course, the most prominent features on the sonographs were the presence of marine plants (Figure 3).

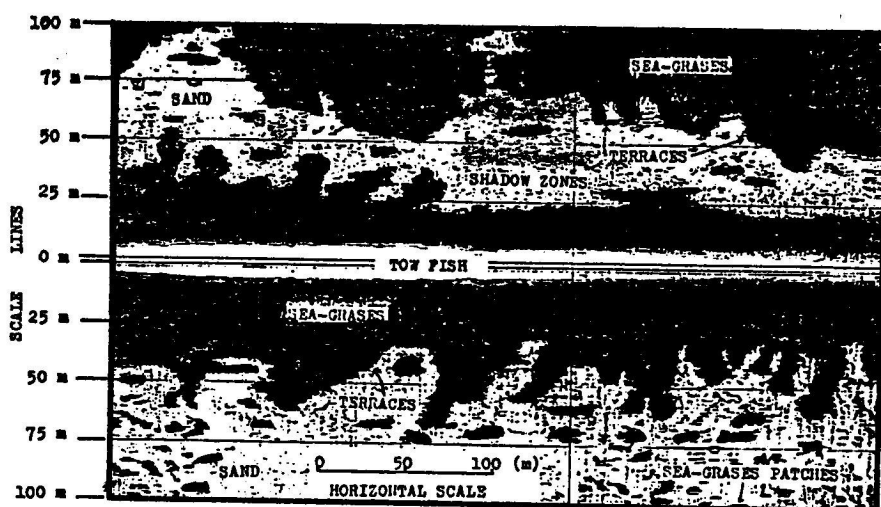


Figure 3. Side-scan sonar image showing the distribution patterns of the sea-grasses, some small terraces, and sand areas.

These were the Hydrocharitaceae and Potamogetonaceae. These include the species, *Zostera nana*, *Zostera marina*, *Cymodocea nodosa*, *Udotea petiolata*, and *Posidonia oceanica*, which were restricted between 10 and 40 m contour lines.