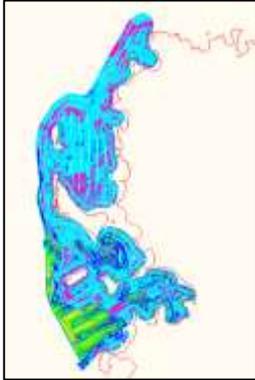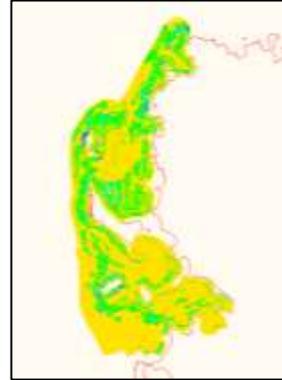# FOÇA SPECIAL ENVIRONMENTAL PROTECTION AREA, TURKEY

The side scan sonar data was acquired using Klein 3000H dual frequency (445 and 900 kHz), to map the seafloor of Foça Special Environmental Protection Area between 0-50 m depth interval. The survey was performed with R/V Dokuz Eylül 3 of Dokuz Eylül University-Institute of Marine Sciences and Technology (DEU-IMST).
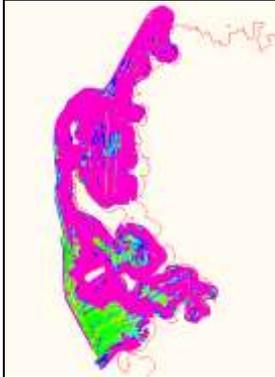
The "Classification" tool was used in the SonarWiz software. The entropy and the intensity properties were chosen to train the classifier in first stage as suggested in seabed classification manual. This situation was tested with different training conditions by choosing different lines from the training panel. After these tests, other properties like GCLM contrast, GCML asimilarity, GCML homogeneity properties of the mosaic were used to classify the map. Eventually, the entropy and the intensity properties were chosen to classify the mosaic map. It should be noted that various classification trials needed to be performed in order to obtain the best result for habitat classification.
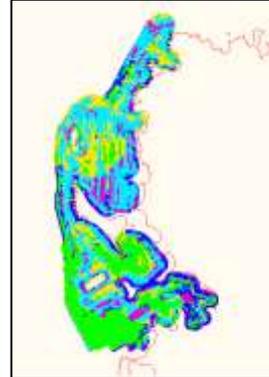

Trial one: good at some *Posidonia* and mud borders but bad at mixed and sandy sediment borders

Trial two: Better result to determine the mud and hard bottom but bad at sandy and mixed sediment borders

Trial three: good at some hard bottom and mud borders, but bad at *Posidonia* and sandy sediment borders

Trial four: good at some *Posidonia*, mud and hard bottom borders but bad at mixed and sandy sediment borders

The data was collected within the scope of the research project entitled "Mapping of marine key habitats and assessing their vulnerability to fishing activities in Foça Special Environmental Protection Area, Turkey", which was conducted by DEU-IMST for SPA/RAC–UN Environment/MAP. The project was in the framework of the MedKeyHabitats II project financed by the MAVA foundation.

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