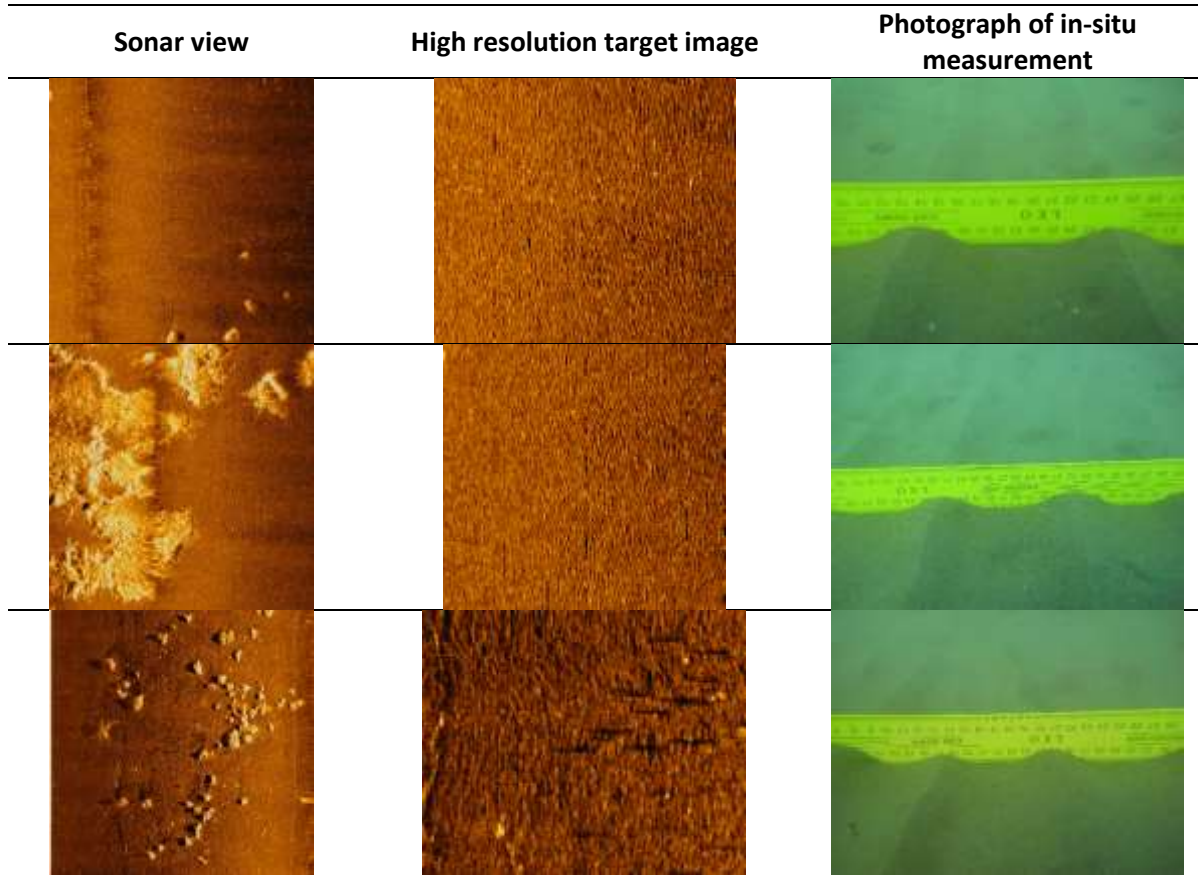


## BÜYÜK MENDERES RIVER MOUTH, TURKEY

The side scan sonar data was acquired using Klein 3000H in order to detect ripples on the seabed at the Büyük Menderes River mouth by means of acoustic measurements. In-situ measurements via diving were conducted in order to measure the size of the ripples in addition to the acoustic measurements (bathymetry and sonar).

The sonar data was processed and mosaicked using SonarWiz software in order to identify the spatial locations of the ripples. Several trials for mosaic resolution were made in the export process. The small ripples could be observed in 5 cm mosaic resolution, since the ripples were very small (with maximum height about 2 cm). For this reason, in-situ measurements played an important role as ground-truthing data.



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Reference: Kısacık, D., Kaboğlu, G., Tarakçıoğlu, G. Ö., Baykal, C., Akdağ, C. T., Akçalı, B., Dondurur, D. & Oğuz Kaboğlu, S. (2018). “Nehir- Deniz Etkileşiminde Kısa Süreli Sediment Form Oluşumlarının Değerlendirilmesi : Gediz ve Büyük Menderes Örnekleri (in Turkish)”, TUBITAK Program Code: 3501, TUBITAK Project No: 115Y722, Ankara.

Data acquired by: Dr. Nilhan Kızıldağ, Data processed by: Dr. Sinem Oğuz Kaboğlu

Case study prepared and submitted by: Dr. Sinem Oğuz Kaboğlu & Dr. Gökhan Kaboğlu (DEU-IMST, Turkey)