

An Assessment of Cilacap Coast's Total Carbonate Sediment Content

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Author Order	3 of 7
Accreditation	2
Abstract	<p>Sediments are particles derived from the dismantling of rocks from the land and pieces of shell and remains of marine organisms that contain organic matter, included carbonate sediment. The total carbonate sediment content was influenced by many factors, such as sediment grain type. This study aimed to determine the carbonate content in sediments and to determine their relationship to the sediment grain characteristic on the Cilacap coast. The sediment's carbonate content used the titration method, while the sediment grain test used a dry filter. Statistical analysis was used to determine the sediment grain characteristic (mean, sorting, skewness, and kurtosis). The results showed that sediments' total carbonate content had a range of 1.93% - 6.23%, with an average of 4.21%. Sediments are dominated by fine sand with very well sorted, very platykurtic, and very fine skewed characteristics. The relationship between sediment grain characteristics and total sediment carbonate content showed a good correlation due to the sorting factor. Other parameters such as mean size and skewness have been shown a low correlation, whereas kurtosis has a shallow relationship with carbonate content.</p>
Publisher Name	Universitas Diponegoro
Publish Date	2021-02-24
Publish Year	2021
Doi	DOI: 10.14710/jkt.v24i1.8849
Citation	
Source	Jurnal Kelautan Tropis
Source Issue	Vol 24, No 1 (2021): JURNAL KELAUTAN TROPIS
Source Page	15-24
Url	https://ejournal2.undip.ac.id/index.php/jkt/article/downloadSuppFile/8849/2036
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