

13 – OUTROS MINERAIS AUTIGÊNICOS NO AMBIENTE MARINHO *OTHER AUTHIGENIC MINERALS IN THE MARINE ENVIRONMENT*

Iran Carlos Stalliviere Corrêa

*Centro de Estudos de Geologia Costeira e Oceânica
Universidade Federal do Rio Grande do Sul - UFRGS*

Resumo

Existem muitos tipos e formas de depósitos minerais autigênicos no fundo marinho, alguns em maior abundância e, em alguns casos, potencialmente econômicos. Entre estes encontram-se os depósitos ferromanganesíferos, fosforíticos, barita marinha e minerais silicatados autigênicos. Aqui serão descritos alguns dos demais minerais autigênicos de importância nos sedimentos do fundo oceânico, tais como glauconita, francólita, zeólita/filipsita, pirita, calcita/aragonita e argilominerais. As zeólitas e argilas mais abundantes, como a esmectita, se formam principalmente a partir da alteração diagenética de vidros vulcânicos metaestáveis, mas muitas outras vias de reação são conhecidas.

Palavras-chave: minerais autigênicos, ambiente marinho, recursos econômicos.

Abstract

There are many types and forms of autogenic mineral deposits on the seafloor, some in greater abundance and in some cases potentially economical. Among these are ferromanganese, phosphoric, marine barite and autogenic silicate mineral deposits. Here, some of the other autogenic minerals of importance in the sediments of the ocean floor will be described, such as glauconite, francolite, zeolite/philipsite, pyrite, calcite/aragonite and clay minerals. The most abundant zeolites and clays, such as smectite, are mainly formed from the diagenetic alteration of metastable volcanic glasses, but many other reaction pathways are known.

Keywords: authigenic minerals, marine environment, economic resources.

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Sobre o Autor

Iran Carlos Stalliviere Corrêa

Geólogo pela Universidade Federal do Rio Grande do Sul (UFRGS), mestre em Geologia Marinha pelo Programa de Pós-Graduação em Geociências da Universidade Federal do Rio Grande do Sul (UFRGS), Especialização em Sensoriamento Remoto Aplicado à Oceanografia, pelo Département d'Océanologie de l'Université de Bordeaux I (França) e doutor em Oceanologia pela Université de Bordeaux I (França). Professor Titular da Universidade Federal do Rio Grande do Sul (UFRGS) e Professor Permanente do Programa de Pós-Graduação em Geociências da Universidade Federal do Rio Grande do Sul (UFRGS). Representante da UFRGS junto ao Programa de Geologia e Geofísica Marinha (PGGM).

E-mail: iran.correa@ufrgs.br

ORCID: [0000-0003-4388-9770](https://orcid.org/0000-0003-4388-9770)