

# Seismic Facies And Sedimentary Processes Of Submarine Fans And Turbidite Systems Frontiers In Sedimentary Geology

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## Seismic Facies And Sedimentary Processes

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## Seismic Facies and Sedimentary Processes of Submarine Fans ...

Seismic Facies and Sedimentary Processes of Modern Submarine Fans and Turbidite Systems. Front Matter. Pages 317-317. PDF. Introduction. John E. Damuth, William R. Normark. Pages 319-322. Seismic Facies, Characteristics, and Variations in Channel Evolution, Mississippi Fan (Plio-Pleistocene), Gulf of

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## **Seismic Facies and Sedimentary Processes of Submarine Fans ...**

Multifold seismic-reflection data provide an important link in comparing the outcrop-scale and modern submarine fan-scale features.

## **Seismic Facies and Sedimentary Processes of Submarine Fans ...**

In addition, seismic-sedimentology methods have successfully revealed the filling-evolution processes of sedimentary bodies in three-dimensional space through stratigraphic-slice technology. Thus, strong technical support has been provided for subtle oil- and gas-reservoir exploration and sedimentary-process research projects (e.g. Wu et al., 2018 ; Li et al., 2017a , 2017b , 2020a ).

## **Seismic sedimentology, facies analyses, and high-quality ...**

Seismic facies and sedimentary processes on the continental rise off Wilkes Land (East Antarctica): evidence of bottom current activity Author links open overlay panel Federica Donda a Giuliano Brancolini a Laura De Santis a Fabio Trincardi b

## **Seismic facies and sedimentary processes on the ...**

Sediments from the prograding shelf and upper slope are transported and deposited mainly in the confined basal accommodation space of intraslope basins, forming convergent-baselapping seismic facies in the early stage of the basin fill history.

## **Intraslope Basin, seismic facies and sedimentary processes ...**

Seismic Facies Classification. Seismic facies classification refers to the interpretation of facies type from the seismic reflector information. The key elements used to determine seismic facies and depositional setting are bedform internal and external configuration/geometry, lateral continuity, amplitude, frequency, and interval velocity. The classification of seismic facies is an important first step in exploration, prospecting, reservoir

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characterization, and field development.

## **Seismic Facies Classification - SEG Wiki**

Discrete seismic units are similarly referred to as seismic facies. Sedimentary facies are described in a group of "facies descriptors" which must be distinct, reproducible and exhaustive. A reliable facies description of an outcrop in the field would include: composition, texture, sedimentary structure(s), bedding geometry, nature of bedding contact, fossil content and colour.

## **Facies - Wikipedia**

Facies descriptors like sedimentary and seismic facies can give a comprehensive guide to mapping the subsurface and depositional systems. Biofacies and lithofacies can lead to dating bodies of rock. Metamorphic and lithofacies can be used to describe the tectonic regime of the region.

## **Facies - SEG Wiki**

draping facies is restricted to slope areas shallower than 1000 m in water depth. Sediments from the prograding shelf and upper slope are transported and deposited mainly in the confined basal accommodation space of intraslope basins, forming convergent-baselapping seismic facies in the early stage of the basin fill history.

## **Intraslope Basin, Seismic Facies and Sedimentary Processes ...**

Occurrence of intraslope basins and distinct seismic facies assemblages of the basin fills in the Kaoping Slope, offshore SW Taiwan, reflect interactions between regional convergent tectonics,...

## **Intraslope Basin, Seismic Facies and Sedimentary Processes ...**

Sedimentary Environments is one of the most distinguished and influential textbooks in the earth sciences published in the last 20 years. The first and second editions both won universal praise and became classic works in sedimentology. Since the publication of the last edition, the study of sedimentary

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environments and facies has made great strides, with major advances in facies modelling ...

## **Amazon.com: Sedimentary Environments: Processes, Facies ...**

Sedimentary rocks form from the weathering, erosion, transportation and deposition of older rocks. Applied Sedimentology describes the formation, transportation and deposition of sediment, and the post-depositional processes that change soft sediment into sedimentary rock. Sedimentary rocks include sandstones, limestones and mudstones.

## **Sedimentary Environments Processes Facies And Stratigraphy ...**

Finally, seismic facies were converted into sedimentary facies by combining different seismic reflection structures and sedimentary environments.

## **Seismic-sedimentary Facies Analysis of Es3x Formation in ...**

Turbidity currents represent an important sedimentary process that governs the slope morphology off east Taiwan. Triggering mechanisms likely range from slope instabilities related to earthquakes shaking to failure relative to climatic-controlled pulses of sediment supply.

## **Deep-sea sedimentation offshore eastern Taiwan: Facies and ...**

Sedimentary Processes and Stratigraphic Responses in a Tectonically Driven ... short-term (i.e., acting over hours to weeks) biological and physical processes affecting sedimentation ("event stratigraphy") to the sequence stratigraphy and facies architecture of the preserved record. ... with deep channel incisions and hummocky seismic facies ...

## **Sedimentary Processes and Stratigraphic Responses in a ...**

Computer simulation can help us predict lithofacies and hydrocarbon occurrence between and beyond data control. Both 2-D and 3-D simulation programs are available or in

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development. With high-resolution input of chronostratigraphy, lithofacies, and sedimentary process rates, simulations can be constructed that interpolate and extrapolate distributions of potential organic-rich source rock ...

## **Stratigraphic predictions from computer simulation - AAPG Wiki**

Waghorn et al. 11, using 3D seismic data, showed that large-scale crustal faults do indeed underlie the gas hydrate and fluid flow system in the area of the 3D seismic survey, however owing to the ...

## **Crustal processes sustain Arctic abiotic gas hydrate and**

...

Describe the types of facies. Facies are the external appearance or look of general use, it is really a distinctive rock unit that forms under certain conditions of sedimentation, reflecting a particular process or environment. There are three different rock facies which are sedimentary facies, metamorphic facies, and seismic facies.

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