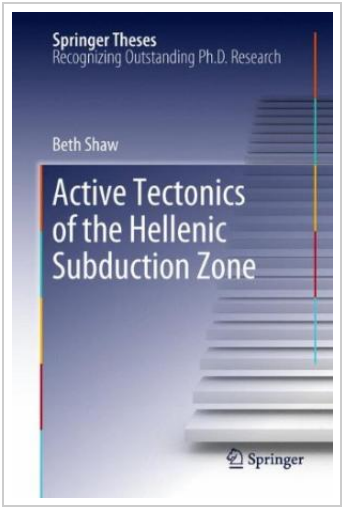

Active Tectonics of the Hellenic Subduction Zone

By Beth Shaw

Springer-Verlag Gmbh Jan 2012, 2012. Buch. Book Condition: Neu. 247x164x17 mm. Neuware - This thesis is remarkable for the wide range of the techniques and observations used and for its insights, which cross several disciplines. It begins by solving a famous puzzle of the ancient world, which is what was responsible for the tsunami that destroyed settlements in the eastern Mediterranean in 365 AD. By radiocarbon dating of preserved marine organisms, Shaw demonstrates that the whole of western Crete was lifted out of the sea by up to 10 metres in a massive earthquake at that time, which occured on a previously unknown fault. The author shows that the resulting tsunami would have the characteristics described by ancient writers, and uses modern GPS measurements and coastiline geomorphology to show that the strain build-up near Crete requires such a tsunami-earthquake about every 6.000 years - a major insight into Mediterranean tsunami hazard. A detailed seismological study of earthquakes in the Cretan arc over the last 50 years reveals other important features of its behaviour that were previously unknown. Finally, she provides fundamental insights into the limitations of radiocarbon dating marine organisms, relating to how they secrete carbon into their skeletons. The...

Reviews

Extremely helpful to all category of individuals. I have got go through and that i am confident that i will likely to read through once again again later on. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- ***Nikita Herzog***

Extensive guide! Its such a very good read. I really could comprehended almost everything out of this created e ebook. You will like how the writer write this ebook.

-- ***Katherine Feil***