

1. Record Nr.	UNINA9910799491803321
Titolo	Geodynamics of the Latin American Pacific Margin // edited by William L. Bandy, Juanjo Dañobeitia, Carlos Mortera Gutiérrez, Yuri Taran, Rafael Bartolomé
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2017
ISBN	3-319-51529-2
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (VI, 366 p.)
Collana	Pageoph Topical Volumes, , 2504-3625
Disciplina	550 526.1
Soggetti	Geophysics Geophysics/Geodesy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction 1. A Review on Forearc Ophiolite Obduction, Adakite-Like Generation, and Slab Window Development at the Chile Triple Junction Area: Uniformitarian Framework for Spreading-Ridge Subduction -- 2. Foreshock Patterns Preceding Great Earthquakes in the Subduction Zone of Chile -- 3. Analysis of the Aeromagnetic Anomalies of the Auca Mahuida Volcano, Patagonia, Argentina -- 4. Flare-Shaped Acoustic Anomalies in the Water Column Along the Ecuadorian Margin: Relationship with Active Tectonics and Gas Hydrates -- 5. The 10 April 2014 Nicaraguan Crustal Earthquake: Evidence of Complex Deformation of the Central American Volcanic Arc -- 6. Three-Dimensional Thermal Model of the Costa Rica-Nicaragua Subduction Zone -- 7. Kinematic 3-D Retro-Modeling of an Orogenic Bend in the South Limón Fold-and-Thrust Belt, Eastern Costa Rica: Prediction of the Incremental Internal Strain Distribution -- 8. Low Angle Contact Between the Oaxaca and Juárez Terranes Deduced From Magnetotelluric Data -- 9. Seismic Anisotropy and Mantle Flow Driven by the Cocos Slab Under Southern Mexico.-10. Toroidal, Counter-Toroidal, and Upwelling Flow in the Mantle Wedge of the Rivera and Cocos Plates: Implications for IOB Geochemistry in the Trans-Mexican Volcanic Belt -- 11. Active Crustal Faults in the Forearc Region,

Guerrero Sector of the Mexican Subduction Zone Slow Slip History for the MEXICO Subduction Zone: 2005 Through 2011 -- 12. Lateral Variations of Interplate Coupling along the Mexican Subduction Interface: Relationships with Long-Term Morphology and Fault Zone Mechanical Properties -- 13. P-Wave Velocity Tomography from Local Earthquakes in Western Mexico -- 14. Seismic Characteristics of the Vulcanian Explosions from the 2003–2005 Eruption at Colima Volcano, Mexico -- 15. Bahía de Banderas, Mexico: Morphology, Magnetic Anomalies and Shallow Structure -- 16. Crustal Architecture at the Collision Zone Between Rivera and North American Plates at the Jalisco Block: Tsujal Project -- 17. Multichannel Seismic Imaging of the Rivera Plate Subduction at the Seismogenic Jalisco Block Area (Western Mexican Margin) -- 18. Geometric Aspects of the Full Moment Tensors in the Gulf of California and the Mexican East Pacific Rise -- 19. The 2006 Bahía Asunción Earthquake Swarm: Seismic Evidence of Active Deformation Along the Western Margin of Baja California Sur, Mexico -- 20. Active Crustal Deformation in the Area of San Carlos, Baja California Sur, Mexico as Shown by Data of Local Earthquake Sequences -- 21. Structural and Seismic Stratigraphic study in the Center of the Magdalena Shelf in the Western Margin of Baja California Based on Seismic Reflection Data.

Sommario/riassunto

Geodynamics of the Latin American Pacific Margin presents a collection of 22 studies by a multinational group of investigators whose common interest is to better understand the complex geodynamic processes occurring along the Pacific margin of Latin America and the impact that these processes have on the local populace. Processes investigated in these papers include the subduction of buoyant ridges and spreading centers, ophiolite emplacement, plate margin truncation, forearc deformation, mantle convection, magma emplacement and associated continental rifting, and the release of energy by great earthquakes as well as slow slip events. These studies illustrate the vast and varied research opportunities that exist along the margin, and will be a welcome addition to the library of those who are actively investigating the geodynamics of the Latin American Pacific margin as well as those interested in the subduction process in general.
