

Contents

<i>Dedication to Dr. Gaku Kimura</i>	v
Timothy Byrne and Donald Fisher	
<i>1. Facies architecture, detrital provenance, and tectonic modulation of sedimentation in the Shikoku Basin: Inputs to the Nankai Trough subduction zone</i>	1
Michael B. Underwood and Kevin T. Pickering	
<i>2. Thermal conductivity changes in subducting basalt, Nankai subduction zone, SW Japan: An estimation from laboratory measurements under separate high-pressure and high-temperature conditions</i>	35
Weiren Lin, Osamu Tada, Masataka Kinoshita, Jun Kameda, Wataru Tanikawa, Takehiro Hirose, Yohei Hamada, and Osamu Matsubayashi	
<i>3. Lithostratigraphic controls on dewatering and fluid pressure in the western Nankai subduction zone: Implications for the drainage behavior and consolidation state of the underthrust sequence</i>	51
A. Hüpers, D.M. Saffer, and A.J. Kopf	
<i>4. Three-dimensional plate geometry and P-wave velocity models of the subduction zone in SW Japan: Implications for seismogenesis</i>	69
Ayako Nakanishi, Narumi Takahashi, Yojiro Yamamoto, Tsutomu Takahashi, Seckin Ozgur Citak, Takeshi Nakamura, Koichiro Obana, Shuichi Kodaira, and Yoshiyuki Kaneda	
<i>5. Upper-plate tectonic hysteresis and segmentation of the rupture area during seismogenesis in subduction zones—A case study of the Nankai Trough</i>	87
Gaku Kimura, Asuka Yamaguchi, and Masataka Kinoshita	
<i>6. Tectonostratigraphy and processes of frontal accretion with horst-graben subduction at the Japan Trench</i>	101
Frederick M. Chester and J. Casey Moore	
<i>7. Initiation of tectonic mélange formation associated with the smectite-illite transition at 2–4 km depth in a subduction zone: Hota accretionary complex, central Japan</i>	115
Yuzuru Yamamoto, Jun Kameda, Mayuko Fukuyama, and Haruka Yamaguchi	
<i>8. Emplacement of a layered mafic intrusion in the Shimanto accretionary complex of southwest Japan: Evidence from paleomagnetic and magnetic fabric analysis</i>	129
K. Kodama, T. Byrne, J.C. Lewis, J.P. Hibbard, M. Sato, and T. Koyano	

9. Thermal fluid migration in the Kumano forearc basin, Nankai Trough, estimated via vitrinite reflectance measurement	141
Kuniyo Kawabata, Arito Sakguchi, Yohei Hamada, Takeshi Tsuji, Yujin Kitamura, and Saneatsu Saito	
10. Styles of underplating in the Marin Headlands terrane, Franciscan complex, California	155
Christine A. Regalla, Christie D. Rowe, Nicolas Harrichhausen, Matthew S. Tarling, and Jyotsana Singh	
11. Normal faults at same depth as thrust faults in an exhumed accretionary complex, Kayo Formation, Okinawa Islands, Japan	175
Yoshitaka Hashimoto, Dai Ueda, Yuhei Motomiya, Kota Tobe, Ayaka Saiki, Kiyohiko Morita, and Kohtaro Ujiie	
12. Fluid-related deformation processes at the up- and downdip limits of the subduction thrust seismogenic zone: What do the rocks tell us?	187
Åke Fagereng, Johann F.A. Diener, Susan Ellis, and Francesca Remitti	