Preface to the special issue “Imaging Earthquakes”

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On June 18–19, 2015, a symposium was held at the École Normale Supérieure, Paris, to honor Professor Raul Madariaga on the occasion of his 70th birthday. The 12 papers comprising this Special Issue of the Journal of Seismology are based partly on lectures presented at this symposium.

The subject of this volume is related to topics to which Raul Madariaga has devoted his life to studying, namely, earthquake mechanics, subduction zone earthquakes, and the direct and indirect inversion of seismic data. The volume commences with three

papers on the 2014 Mw 8.1 Iquique, Chile earthquake, on Iberian seismotectonics and on the 2007 Mw 6.6 Chuetsu-Oki, Japan earthquakes. It then continues with three papers on inversion of earthquake and wave data. Papers discussing the scale dependence of stress drop and on early warning systems are followed by three papers on fracture dynamics follow. Finally, Prof. Madariaga has himself written a comprehensive review of earthquake dynamics on a circular fault covering the period from the early days of its study in 1970 till the present.

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