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European Seismological Research Infrastructure: Status and Developments

Europe is currently investing heavily in coordination of its seismological research infrastructures and the products and services they provide through a wide variety of EC and national projects. The current status and on-going developments can described within roughly three categories: • Seismological data, including primary waveforms, metadata and primary measures (arrival times and amplitude of seismic waves) and building on existing network coordination initiatives within the ORFEUS (www.orfeus-eu.org) framework. • Seismological products, including earthquake parameters (location, magnitude), seismic bulletins and (historical) catalogues, earthquake alerts and building on existing coordination efforts within the EMSC (www.emsc-csem.org) framework. • Products and services in seismic hazard and risk, including base date for modeling (catalog of active faults, GMPEs, building vulnerability functions, etc) and modeling tools, hazard & risk maps and scenarios, and building on on-going initiatives in SHARE and NERA and within the EFEHR (www.efehr.org) framework. During 2013 the coordinating organizations are structuring those developments into a comprehensive European seismological RI, well embedded in the international framework to ensure compatibility and, specifically, the general European earth science RI of EPOS. This includes a long-term planning of integrated services based on a scientific research vision in earth sciences.

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