

## Preface

This Seismological Data Catalogue contains data from local and regional earthquakes in Germany and adjacent areas. The seismic stations from which seismogram readings were available are listed in Table I. The locations of these stations are shown in Figure 1. Information on the instrumentation of the German seismographic stations is provided in Table II. This catalogue differs from the former editions by a new format for the epicenter and phase data, which is described under Format Description (page xxiii).

In addition to the epicenter data based on the recordings of the German stations, earthquake data from international agencies and European seismological institutes are included in the catalogue. In general, the data are for earthquakes between 47°N and 55°N and between 5°E and 15°E. Data from chemical explosions in mines or quarries are normally excluded from the catalogue. Exceptions are made in those cases where a foreign institution declared such an event to be an earthquake. Moreover, all explosions that cannot be clearly identified as such are marked as "presumably explosion". The epicenters of the earthquakes listed in this catalogue are shown in Figure 2.

In general, only events with magnitudes equal to or greater than  $ML = 2.0$  are included in this catalogue. Exceptions to this rule may be made if the event is of special interest for some reason, for example, if the epicenter of an earthquake is in an area of low seismic activity or if a low magnitude event in Germany has already been reported by another agency.

More than one hypocenter solution is provided for many of the earthquakes in this catalogue. The result considered to be the most reliable was taken as the reference. The highest priority was given to the epicenter data from a local network covering the epicenter region. A number of geophysical institutes and agencies in the various federal states operate these networks (Table I). This data is very important for the quality and completeness of the German earthquake data catalogue, compiled and processed by the Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Hannover.

This edition has been published in digital form for the first time. The complete text of the seismological data catalogue in the new format with figures in color can be found under the internet address

**<http://www-seismo.hannover.bgr.de/>**

Seismograms and detailed descriptions of the seismological stations should be requested directly from the corresponding institutes. Requests for digital waveform data from GRSN stations, yellow in Figure 1, should be addressed to the Seismological Central Observatory Gräfenberg (SZGRF). It is also possible to retrieve this data automatically either by e-mail or interactively from the SZGRF or the Seismic Data Analysis Center of BGR. Detailed information about the various methods implemented to satisfy data requests can be found on the corresponding Web pages. The internet addresses of the two BGR facilities, as well as those of other German seismological institutes are listed in Table I.

We thank all seismologists from the various institutes who contributed data from their stations or seismic networks.