

The New IASPEI Manual of Seismological Observatory Practice

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ABSTRACT

The last edition of a Manual of Seismological Observatory Practice dates back to 1979. It covered analog techniques only and is out of print. Since that time, computer and communication technologies as well as the availability of modern broadband sensors have revolutionized seismological observatory practice. Related know-how is chiefly available in industrial countries only. Besides this, classical university curricula do not provide suitable education and training of observatory personnel. Therefore, the IASPEI Commission on Practice has launched an initiative to produce within the next few years a New Manual of Seismological Observatory Practice (NMSOP). It will be developed as an electronic database and will be freely accessible, together with the old manual, via the Internet. The systematic tutorial body of the manual, complemented by the use of hypertext features which will guide the user to additional resources, will assist station operators and analysts in their daily work and enable them to retrieve relevant pieces of information or teaching/training modules tailored to their specific needs. When finished, the NMSOP will also be available as a CD-ROM, and the publication of a condensed version as a text book is being considered. This paper outlines the philosophy, structure, and list of contents of the NMSOP and demonstrates it using several examples.

INTRODUCTION

Emil Wiechert (1861–1928) once said that the supreme goal of seismology should be to “understand each wiggle” in a seismic record. Only then would we understand or at least have a good model to explain the complicated system and information chain with its many interrelated components, such as the seismic source, the wave propagation through the real Earth, the additional masking and distortion of “useful signals” by interfering noise, and the influence of the seismic sensors, recorders, and processing techniques on the seismogram (cf. Figure 1 in Bormann, 2000, this volume, page 502).

Despite the tremendous progress made since Wiechert in understanding the most pronounced features in seismic records, long-period ones in particular, we are still well short of reaching the goal he set. In fact, most operators and analysts at current seismological observatories, even those equipped with the most modern equipments, have not yet advanced much with respect to their curiosity and capability to “understand each wiggle” in a seismic record since the mid-20th century. There are several reasons for this lack of progress in the deeper understanding of seismogram analysis by station operators. Early seismic stations were mostly operated or supervised by broadly educated scientists who pioneered both the technical and scientific development of these observatories. They took an immediate interest in the analysis of the data themselves and had the necessary background knowledge to do it thoroughly. After WWII the installation of new seismic stations boomed, and rapid technological advances required increasing specialization. Station operators became more and more technically oriented, just taking care of maintenance and raw data production with a minimum of effort and interest in routine data analysis, and they have tended to become alienated from the more comprehensive scientific use of their data products. Also, the seismological research community has become increasingly specialized, e.g., in conjunction with the monitoring and identification of underground nuclear tests. This trend has often caused changes in priorities and has narrowed the view with respect to the kind of data and routine analysis required to best serve current scientific interests.

Hwang and Clayton (1991) published an analysis of phase reportings to the International Seismological Centre (ISC) by all the affiliated seismological stations of the global seismic network. Most seismic stations, even those equipped with both short- and long-period or broadband seismographs, reported only the first *P*-wave arrival out of the many—often clearly discernable onsets (*i.e.*, later arrivals) in seismograms of strong events, often not reporting even

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Victor M. Corman



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Manual of Seismological Observatory Practice P. L. Willmore, World Data Center A for Solid Earth Geophysics, 1979

New manual of seismological observatory practice : (NMSOP). 2. Annexes International Association of Seismology and Physics of the Earth's Interior, 2002 **New manual of seismological observatory practice : (NMSOP). 2. Annexes** Peter Bormann, 2002 *New Manual of Seismological Observatory Practice (NMSOP)* Peter Bormann, 2002 **A Manual of Seismology** Charles Davison, 1921 Manual of Seismological Observatory Practice, Assembled from Material Submitted by the Committee ... and from Published Sources , 1970 Manual of Seismological Observatory Practice P. L. Willmore, V. Kárník, 1970 **Manual of Seismological Observatory Practice** , 1979 **New Manual of Seismological Observatory Practice (NMSOP)** , 2002 A Manual of Seismology (Classic Reprint) Charles Davison, 2015-08-04

Excerpt from A Manual of Seismology My chief difficulty in writing this textbook has been to decide on what should be included and what excluded to determine in fact the relative importance of different branches of a subject which is of growth so modern that its treatment has not yet become defined Until near the close of the last century seismology was regarded as a department of geology but while its growth in that direction has by no means ceased the more recent advances have been largely the work of mathematicians and physicists As this volume belongs to a series of geological manuals much of that work is here left unnoticed and readers who wish to know more of these recent developments may be referred to Prof Knott's Physics of Earthquake Phenomena Oxford University Press and Dr G W Walker's Modern Seismology Longmans Partly in order to save room I have omitted several subjects which are usually included within the domain of seismology Some of these such as the bending of the earth's crust by tidal loading and the occurrence of man micro tremors have in reality no connexion with earthquakes Others such as the effects of earthquakes on men and animals the rotation of columns and experiments on the velocity of earth waves are of interest but are not essential to the subject Though a few historical notes are inserted here and there no attempt is made to provide a history of seismology My aim has been to give an outline of our present knowledge which of course is usually in advance of the work of pioneers The number of references to any writer in the index is thus rather a testimony to the recency of his achievements than to the actual part which he has taken in promoting the science Otherwise there would have been many more references to the work of Perrey Mallet and Milne Readers who desire further information on the history of the science may consult a series of papers on the Founders of Seismology in the Geological Magazine for 1921 About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to

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 A Lab Manual of Seismic Reflection Processing Roger A. Young,2004 Manual of Seismic Design James L. Stratta,1987 **Anatomy of Seismograms** O. Kulháněk,2012-12-02 Frequent updating of existing interpretation codes and routines is a prerequisite for modern seismogram interpretation and research The primary goal of this book is to present in a rather tutorial form all the necessary information and techniques pertinent to essential seismogram interpretation The treatment is descriptive rather than mathematical and emphasis is placed on practical aspects especially for the benefit of students and junior seismogram interpreters affiliated to seismographic stations and observatories Those workers more knowledgeable in seismology and curious enough in the detailed deciphering of seismogram peculiarities will also find the presentation useful The book is divided into two parts a verbal description Chapters 1 6 and a collection of 55 plates Chapter 7 with interpretations The verbal description explains in a rather elementary form the most fundamental physical phenomena relevant to seismogram appearance The collection of plates exhibits a large variety of seismogram examples and the corresponding interpretations cover different seismic sources tectonic and volcanic earthquakes underground explosions cavity collapse sonic booms wave types epicentral distances focal depths and recording instruments analog digital short and long period broad band The book compliments older manuals in that both analog and digital records are considered Seismograms from more traditional narrow band as well as from modern broad band instruments are displayed Tectonic and volcanic earthquakes are represented and the exhibited seismograms form a worldwide collection of records acquired from seismographic stations located in North and Central America Asia Europe and New Zealand i e in various geological and

tectonic environments Terminology and usage of definition does vary among agencies in different parts of the world that used in this book is common to Europe

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