

PROCEEDINGS OF THE XIV IAGA WORKSHOP ON GEOMAGNETIC OBSERVATORY INSTRUMENTS, DATA ACQUISITION, AND PROCESSING

PREFACE

The XIVth IAGA Workshop on Geomagnetic Observatory Instruments, Data Acquisition, and Processing was the first of its kind to take place in China, the country regarded as the birthplace of geomagnetism. These workshops are scheduled to take place every 2 years, and as such, it is an important meeting for all magnetic observatories to attend. These workshops serve to provide the standard of observation and measurement techniques. The purpose of the XIVth IAGA Workshop on Geomagnetic Observatory Instruments, Data Acquisition, and Processing is to examine the practical and theoretical challenges of observations of the Earth's magnetic field at Geomagnetic Observatories. The fundamental goal of the Workshop was the exchange of information, tools, and experience relating to the methodology of such observations. The Workshop was divided into two parts: measurement sessions and scientific sessions. It also included lectures and training sessions related to magnetic observations. The Workshop was attended by approximately 80 participants with 45 participants coming from countries outside China.

The XIVth IAGA Workshop on Geomagnetic Observatories was hosted by the Institute for Geophysics of the China Earthquake Administration. The Measurement Session took place at the Changchun Magnetic Observatory (CNH), located approximately 60 km outside the city of Changchun in the Jilin province of China. It is located at 43.8°N, 125.3 °E at an altitude of 234 m.

The Measurement Session was scheduled between 14-17 September. The Measurement Session schedule at Changchun Observatory was followed immediately by the Scientific Session in Changchun at the New Century Hotel from 19-22 September. Topics covered by both oral and poster presentations included magnetometer networks, observatory instruments and techniques, new observatories, data processing and distribution, data applications, as well as the future of magnetic observatories. Keynote addresses were given by Dr Peter Sutcliffe from Hermanus Magnetic Observatory (*Studies of geomagnetic pulsations using magnetometer data from the CHAMP low-Earth-orbit satellite and ground-based stations*) as well as Dr Masahito Nose from the Kyoto World Data Centre (*Application of real-time geomagnetic field data at World Data Center for Geomagnetism, Kyoto*).

All papers published in this edition of Data Science Journal have been peer-reviewed by experts in the international community of magnetic observatories.

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Chair: Workshop Scientific Committee