



David Kerridge

**UNITED
KINGDOM**

David joined the British Geological Survey (BGS) in 1983 following completion of a PhD in geomagnetism. He began his BGS career by working on several aspects of the Earth's magnetic field including global geomagnetic modelling, contributing to the World Magnetic Model and to candidates for the International Geomagnetic Reference Field. He also carried out research commissioned by the European Space Agency on solar and geomagnetic activity forecasting, motivated by understanding the space weather hazard affecting spacecraft and contributed to the modernisation of the operations of the BGS magnetic observatories. On appointment as leader of the BGS's geomagnetism programme in 1991, David developed strong links with the oil and gas sector leading to the development of new techniques of magnetic referencing for directional drilling which are applied worldwide today.

In 1997 David was given additional responsibility for the BGS research groups in earthquake seismology and the Edinburgh Anisotropy Project. BGS activities in earthquake seismology include running the UK seismic network and carrying out seismic hazard studies for locations worldwide. In 2005 David led a multi-agency study, commissioned by the UK Government, to assess the tsunami threat to the UK, which led to further work on scenario modelling and tsunami warning systems. In 2007 he was asked to use the experience gained by BGS staff during volcanic crises, through their role at Montserrat Volcano Observatory, to build a new science team in volcanology. In 2013, on appointment as Director, Earth Hazards and Observatories, David added the BGS science team in Earth Observation, and the UK's space geodesy facility, to his management portfolio.

Throughout his career David has built links with government agencies and the private sector to establish multi-client consortia to support applied science. This has contributed to BGS's successful record of transferring knowledge gained through research into 'real-world' applications with tangible economic and societal benefits. He assisted in the establishment (in 2011) of the multi-agency UK Natural Hazards Partnership providing information, research and analysis on natural hazards for the development of more effective policies, communications and services for civil contingencies, governments and the responder community across the UK. He has also advised the UK Government on planning for and responding to humanitarian disasters.

David has been active in science internationally, holding a number of senior positions including Vice-President (1995-1999) and President (1999-2003) of the International Association of Geomagnetism and Aeronomy (IAGA). He was a member of the INTERMAGNET Executive Council from 1992-2014, acting as Chair from 2003-2008. He has served as Chair of the IUGG Statutes and By-Laws committee (2007-2015). David was awarded honorary membership of IAGA in 2013 and made a conferred Fellow of IUGG in 2015. His contributions to science have been recognised through the Royal Astronomical Society's award for services to geophysics in 2009, and the award of an MBE in the 2010 UK New Year Honours List.