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Selected conference papers from the European Mantle Workshop, EMAW, held Ferrara, 2007.

Volcanoes release gases to the atmosphere both during and between eruptive phases. Primary and secondary processes occurring within the mantle and crust control the gases ' chemical and isotopic compositions as well as their emission rates. Therefore by measuring these gases a wealth of scientific information concerning the source and fate of these fluids is provided. Fluid geochemistry has been highly useful in advancing both our fundamental scientific understanding and procedures for operational volcano monitoring and eruption forecasting. Gases from low-to-high temperature fumaroles and those diffusively released through the soils of volcanic flanks are investigated using various sampling and measurement techniques. Furthermore, a variety of remote sensing methods are applied at relatively great distances from the source to gather major gas composition and flux data for volcanic plumes using ground based, airborne (including UAV) and space borne platforms. The acquired data have advanced science in a number of key ways: • firstly, with parallel thermodynamical modelling to advance our capacity to interpret acquired degassing data; • secondly, through improved constraints on budgets for volcanically mediated geochemical cycling, particularly via regional subduction processes; • thirdly, through improved constraints on the effects of volcanic gases on atmospheric composition, chemistry and radiative transfer, particularly in terms of halogen chemistry, volcanogenic climate change and impacts on human health; • fourthly, there has been a growing body of work focused on combining degassing data with contemporaneous geophysical data and studies on conduit fluid dynamics to advance our understanding of how subterranean gas flow mediates activity at the surface; • and fifthly, there have been considerable advances in the methods themselves, used to make the gas measurements, in particular in terms of extractive sampling (e.g., using MultiGAS units, mass spectrometry, spectroscopic isotope measurement approaches and diffusive denuder sampling) and remote sensing approaches (e.g., DOAS, UV cameras and other imaging techniques, LIDAR and FT)

This book presents a new synthesis of the major metallogenic provinces of Europe and the geodynamic processes involved that can lead to the formation of world-class ore deposits. It represents the culmination of a 5-year research programme, GEODE, set up by the European Science Foundation, that brought together researchers across Europe from a wide range of disciplines into collaborative research projects. They focused on five metallogenic provinces across Europe; the Precambrian Fennoscandian Shield, the Upper Palaeozoic Urals, the Variscides of France and SW Iberia, the Alpine–Balkan–Carpathian–Dinaride belt and sediment-hosted deposits of Europe. Because of the long and well-known tectonic history of Europe and the diversity of ore deposits, linkages between geodynamics and ore deposit evolution have been established and new insights into mineralizing fluids and ore formation processes have been gained. Presented as a set of individual review papers and a final synthesis, this book offers a coherent and structured appraisal of geodynamics and metallogeny in Europe, with valuable lessons for mineral exploration and research throughout the world.

The Pleistocene epoch or Ice Age, an extended period of advancing and retreating ice sheets, is characterized by striking climatic oscillations and sea level fluctuations. This age saw the rise and spread of humans and a great extinction of large mammals by the end of the epoch; in fact, the world today is essentially the product of dramatic changes that took place in the Pleistocene. This book, a companion to the author's Pleistocene Amphibians and Reptiles in North America, discusses the Pleistocene amphibians and reptiles in Britain and the European continent eastward through present-day Poland, the Czech Republic, Hungary, the Yugoslavian republics, and Greece. The book begins with a general discussion of the Pleistocene in Britain and Europe with an emphasis on regional terms used to define Pleistocene chronological events. Next, a look at the pre-Pleistocene herpetofauna of the study area sets the stage for a discussion of Pleistocene herpetofauna. A significant section of the book consists of a "bestiary," a series of annotated taxonomic accounts of Pleistocene herpetological taxa from the region. Following this is the interpretive section, beginning with a discussion of herpetological species as paleoenvironmental indicators and continuing with an analysis of herpetological population adjustments to Pleistocene events in Britain and Europe, and then with a discussion of extinction patterns in the region. Finally, the author compares Pleistocene herpetological events in Europe with those in North America. This volume and its companion together provide an up-to-date and comprehensive review of Pleistocene herpetofaunas across a significant portion of the Northern Hemisphere.