

Palaeomagnetic database: the effect of quality filtering for geodynamic studies

GIANCARLO SCALERA¹, PAOLO FAVALI^{1,2} & FABIO FLORINDO¹

¹ *Istituto Nazionale di Geofisica, Via di Vigna Murata, 605-00143 Roma, Italy*

² *Centro di Studi Avanzati per la Geodinamica, Università degli Studi della Basilicata-Potenza, Italy*

Abstract: The Global Palaeomagnetic Database (GPMDB), now updated to 1992, contains about 7000 palaeomagnetic data, which are fundamental tools to define regional and global geodynamic models. A software developed at the Istituto Nazionale di Geofisica allows the selection of data on the basis of space, time, and quality. Six quality classes have been proposed. The African and European Apparent Polar Wander Paths (APWPs) have been computed and the role of the statistical uncertainties is discussed. Some examples from the Tethys Belt have been chosen to demonstrate the effect of the quality filtering in geodynamic studies.

In the last few years, the International Association of Geomagnetism and Aeronomy (IAGA) has officially encouraged the development of several palaeomagnetic and rock-magnetic databases, which fulfil the need of storing and easily handling the increasing amount of data coming from several palaeomagnetic disciplines: among others rock-magnetism, archaeomagnetism and magnetostratigraphy. In particular, five regional databases of directions and palaeopoles were compiled by Khramov & Pisarevsky (Russian Federation), Pesonen (Fennoscandia), Enkin (Canada), Luyendyk & Butler (USA) and Westphal (Europe). Besides the regional databases, IAGA was the sponsor of the world-wide database, the Global Palaeomagnetic Database (GPMDB), co-ordinated and published by McElhinny & Lock (McElhinny & Lock 1990a, b, 1993; Lock & McElhinny 1991). IAGA also encouraged cross checking of the regional databases with the global database, so that errors and omissions were avoided. The GPMDB synthesises all the palaeopole parameters and their quality, and its updated version contains about 7000 palaeopoles. The collection for the period 1989–1992 has been performed by Van der Voo. The GPMDB has a complex file structure, and includes data produced for completely different aims, such as magnetostratigraphy, determination of virtual geomagnetic poles (VGP), averaged palaeomagnetic poles etc. Consequently the data must be selected and weighted according to the scientific field in which the palaeopoles are to be used. The problem of quality filtering is the subject of this paper.

The tectonic framework

Data originating from the GPMDB are referred to specific areas (Fig. 1) which include Africa (excluding Madagascar), Europe to the Urals and part of Asia (Middle East, Caucasus and Arabia). Traces of various orogenic episodes can be found in Africa, Europe and Asia: the two Palaeozoic events (Caledonian, 570–370 Ma; Variscan–Hercynian, 370–220 Ma) and the Alpine Mesozoic–Cenozoic orogeny (Early Mesozoic Alpine, 220–65 Ma; Mid-Cenozoic Alpine, 65–20 Ma; Late Cenozoic Alpine, 20 Ma to present) (UNESCO 1976; Bally *et al.* 1985). The Caledonian orogeny was active in the Mauritanides (Africa) and in Scandinavia, Scotland, Wales and the Ardennes (Europe). Cratonic basins, located mainly in continental pre-Mesozoic lithosphere and shields deformed by Pre-Cambrian orogenic episodes, can be found alongside the Caledonian orogenic belts. Most of Africa has a cratonic structure, such as in western Africa, Congo, Tanzania and Kalahari, with other old deformed areas like Katanga. In Europe we can notice both old deformed zones, like the Karelian system and Fennoscarmatian shield, and wide craton basins (e.g., the North Sea Basin and the Russian–Ukrainian Basin). The Variscan–Hercynian orogeny is strongly marked in Morocco, southern African Cape, in Europe in the Central Massif, the Variscides and the Urals. In Africa the Mesozoic–Cenozoic Alpine orogeny affected the Maghrebides and the Cape Range. The rift-valleys of East Africa were formed during the Neogene and are still volcanically active.

Palaeomagnetic Database

J. D. A. Piper



Palaeomagnetic Database:

Palaeomagnetic Database J. D. A. Piper, 1988 The Global Paleomagnetic Database Jo Lock, M.W. McElhinny, 2012-12-06 Document Syntax XI I DATABASE DESIGN 1 Relational Databases 317 2 Choice of Database Management System 318 3 Design of the Global Paleomagnetic Database 319 3 1 ORACLE Design 319 3 2 Compact Database ABASE 321 4 Aspects of Data Entry 326 II ORACLE HARDWARE AND SOFTWARE 1 Sytem Hardware and Software Recommendation for ORACLE 328 1 1 For a Fully IBM Compatible Personal Computer PC 328 1 2 For an Apple Macintosh PC 329 1 3 Recommendations 330 2 ORACLE RDBMS Software Used By the GPMDB 331 2 1 A Brief Description of the ORACLE RDBMS 331 2 2 SQL Plus under MS DOS 333 2 3 SQL Forms under MS DOS 336 2 4 SQL Menu under MS DOS 338 2 5 The CRT File 339 III DATABASE INSTALLATION AND MAINTENANCE 1 The Role of the Database Administrator 340 2 Preparing Your PC for the Installation of ORACLE RDBMS 340 2 1 ORACLE RDBMS for MS DOS and Extended Memory 340 2 2 Setting up MS DOS for ORACLE 342 3 Installing the ORACLE RDBMS 347 3 1 ORACLE Directory Structure 347 3 2 Installing the ORACLE RDBMS for MS DOS 348 3 3 Step by Step ORACLE RDBMS Installation Instructions 348 4 System Preparation and Loading the Global Paleomagnetic Database 353 4 1 System Preparation 353 4 2 Installing the Global Paleomagnetic Database 356 4 3 Loading the Custombuilt Files 358 v SUI IJ IARY vi 5 Database Administrative Tasks 363 5 1

Palaeomagnetism and Tectonics of the Mediterranean Region Antony Morris, Donald Harvey Tarling, 1996 The Mediterranean region represents a complex mosaic of continental microcontinental and ophiolitic terranes whose overall evolution has been controlled by relative movements between the African and Eurasian plates Palaeomagnetic studies have played an important part in deciphering the sequence of tectonic events in this region The 33 papers presented here span the full width of the Mediterranean basin and present results from Permian to Quaternary rocks **Palaeomagnetic Database**

J. D. A. Piper, 1991-08-15 Provides an in depth analysis of global paleomagnetic results from the earliest studies right up to mid 1987 Reconstructing the movements of each plate over geological time then developing corresponding paleogeography of the past requires a time sequence of paleomagnetic poles for each of the tectonic divisions comprising the total crustal area This database presents worldwide paleomagnetic information in just such a form with data listed plate by plate in order of decreasing geologic age *Paleomagnetism* Michael W. McElhinny, Phillip L. McFadden, 1999-10-18 Paleomagnetism is the study of the fossil magnetism in rocks It has been paramount in determining that the continents have drifted over the surface of the Earth throughout geological time The fossil magnetism preserved in the ocean floor has demonstrated how continental drift takes place through the process of sea floor spreading The methods and techniques used in paleomagnetic studies of continental rocks and of the ocean floor are described and then applied to determining horizontal movements of the Earth's crust over geological time An up to date review of global paleomagnetic data enables 1000 million years of Earth history to be summarized in terms of the drift of the major crustal blocks over the surface of the Earth The first edition of McElhinny's

book was heralded as a classic and definitive text. It thoroughly discussed the theory of geomagnetism, the geologic reversals of the Earth's magnetic field, and the shifting of magnetic poles. In the 25 years since the highly successful first edition of *Palaeomagnetism and Plate Tectonics* (Cambridge, 1973), the many advances in the concepts, methodology, and insights into paleomagnetism warrant this new treatment. This completely updated and revised edition of *Paleomagnetism: Continents and Oceans* will be a welcome resource for a broad audience of earth scientists as well as laypeople curious about magnetism, paleogeography, geology, and plate tectonics. Because the book is intended for a wide audience of geologists, geophysicists, and oceanographers, it balances the mathematical and descriptive aspects of each topic. Details the theory and methodology of rock magnetism with particular emphasis on interpreting crustal movements from continental and oceanic measurements. Outlines Earth history for the past 1000 million years from the Rodinia supercontinent through its breakup and the formation of Gondwana to the formation and breakup of Pangea and the amalgamation of Eurasia. Provides a comprehensive treatment of oceanic paleomagnetism. Provides a set of color paleogeographic maps covering the past 250 million years. Written by two internationally recognized experts in the field.

Palaeomagnetism in Fold and Thrust Belts: New Perspectives E.L. Pueyo, F. Cifelli, A.J. Sussman, B. Oliva-Urcia, 2016-08-23. Palaeomagnetism is a technique used to understand complex deformation patterns in fold and thrust belts; it can be used to characterize the distribution, magnitude, and timing of vertical axis rotations, an elusive variable using other methods. A combination of palaeomagnetic and structural geology analyses has helped to unravel the geometry and kinematics of fold and thrust belts around the world and of different geological ages for more than 50 years. This volume comprises three sections: the first shows thorough overviews of western Mediterranean arcs and the western Carpathians; the second depicts several examples from the Andes, the Alps, Anatolia, Pyrenees, Iberian Ranges, and the Atlas; and the third shows the latest research on the use of palaeomagnetism to understand fold and thrust belts in 3D and 4D in a more quantitative way, and it also includes some methodological proposals to avoid common errors. In the papers of the first two sections, the combination of palaeomagnetic analyses with structural data, AMS, or magnetostratigraphic analyses demonstrate the usefulness of palaeomagnetism in deciphering complex deformation patterns in fold and thrust belts.

Supercontinents, Orogenesis and Magmatism R.D. Nance, R.A. Strachan, C. Quesada, S. Lin, 2024-04-24. This volume is a tribute to the career of J. Brendan Murphy and features papers by over 100 authors from countries all over the world, a testament to the high profile and far-reaching influence of Brendan's work. The topics covered fall into three broad categories that encompass Brendan's main fields of influence: 1. supercontinents and the supercontinent cycle, including reconstructions and modelling; 2. orogenesis and terranes, with a focus on the Appalachian, Variscan, and Central Asian orogenic belts and the oceans with which they are associated; and 3. magmatism and magmatic processes, centring on the geochemistry and isotopic compositions of magmas in arc and rift settings. Like Brendan's own research, the scope of the papers spans the globe and ranges from strongly field-based studies to conceptual analyses. All

of the articles however are focused on unravelling some critical aspect of geology or aimed at clarifying some crucial geological process Hence they also share a theme common to Brendan's many contributions in emphasizing the importance of process oriented research

Tectonic Development of the Eastern Mediterranean Region A. H. F. Robertson, Demosthenis Mountrakis, 2006 The Eastern Mediterranean region is a classic area for the study of tectonic processes and settings related to the development of the Tethyan orogenic belt The present set of research and synthesis papers by earth scientists from countries in this region and others provides an up to date interdisciplinary overview of the tectonic development of the Eastern Mediterranean region from Precambrian to Recent Key topics include continental rifting ophiolite genesis and emplacement continental collision extensional tectonics crustal exhumation and intra plate deformation e g active faulting Alternative tectonic reconstructions of the Tethyan orogen are presented and discussed with important implications for other regions of the world The book will be an essential source of information and interpretation for academic researchers geologists and geophysicists advanced undergraduates and also for industry professionals including those concerned with hydrocarbons minerals and geological hazards e g earthquakes

The Geological Record of Neoproterozoic

Glaciations Emmanuelle Arnaud, Galen P. Halverson, Graham Shields-Zhou, 2011 In recent years interest in Neoproterozoic glaciations has grown as their pivotal role in Earth system evolution has become increasingly clear One of the main goals of the IGCP Project number 512 was to produce a synthesis of newly available information on Neoproterozoic successions worldwide This Memoir consists of a series of overview chapters followed by site specific chapters The overviews cover key topics including the history of research on Neoproterozoic glaciations identification of glacial deposits chemostratigraphic techniques and datasets palaeomagnetism biostratigraphy geochronology and climate modelling The site specific chapters include reviews of the history of research on these rocks and up to date syntheses of the structural framework tectonic setting palaeomagnetic geochronological constraints physical biological and chemical stratigraphy and descriptions of the glaciogenic and associated strata including economic deposits

Supercontinent Cycles Through Earth History

Z.X. Li, D.A.D. Evans, J.B. Murphy, 2016-05-20 The supercontinent cycle hypothesis attributes planetary scale episodic tectonic events to an intrinsic self organizing mode of mantle convection governed by the buoyancy of continental lithosphere that resists subduction during the closure of old ocean basins and the consequent reorganization of mantle convection cells leading to the opening of new ocean basins Characteristic timescales of the cycle are typically 500 to 700 million years Proposed spatial patterns of cyclicity range from hemispheric introversion to antipodal extroversion to precisely between those end members orthoversion Advances in our understanding can arise from theoretical or numerical modelling primary data acquisition relevant to continental reconstructions and spatiotemporal correlations between plate kinematics geodynamic events and palaeoenvironmental history The palaeogeographic record of supercontinental tectonics on Earth is still under development The contributions in this Special Publication provide snapshots in time of these investigations and

indicate that Earth's palaeogeographic record incorporates elements of all three end member spatial patterns

Immerse yourself in heartwarming tales of love and emotion with Crafted by is touching creation, **Palaeomagnetic Database** . This emotionally charged ebook, available for download in a PDF format (*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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