

Content

<i>Carmen Aguilar, Francis Chopin, Pavla Štípská, Karel Schulmann, Prokop Závada, Martin Racek, Jean-Emmanuel Martelat, Pavel Pitra</i> Migmatite formation in a crustal-scale shear zone during continental subduction: an example from a high-pressure granitic orthogneiss from the Orlica-Šnieżnik Dome (NE Bohemian Massif)	1
<i>Paweł Aleksandrowski, Szymon Ostrowski, Bogusław Przybylski, Janusz Badura, Olga Rosowiecka, Katarzyna Sobień, Magdalena Pańczyk-Nawrocka, Marcin Lasocki, Andrzej Głuszyński, Marta Tomaszczyk, Marcin Olkiewicz, Łukasz Jasiński</i> New geophysical data on the Sudetic Marginal Fault, SW Poland	2
<i>Robert Anczkiewicz, Aneta Anczkiewicz, Katarzyna Kołtonik, Sumit Chakraborty, Dilip Mukhopadhyay, Somnath Dasgupta</i> Timescales of regional metamorphism and deformation in the continental collision zone: Eastern Himalaya, Sikkim, India	3
<i>Ivo Baroň, Luboš Sokol, Lukas Plan, Bernhard Grasemann, Rostislav Melichar, Ivanka Mitrovic, Josef Stemberk</i> Kinematics of active faults in the Eastern Alps.....	4
<i>František Bárta, Rostislav Melichar, Lukáš Mareček, Pavel Hanžl</i> Tectonics of durbachitic rocks in the southern part of the Třebíč Pluton.....	6
<i>Simona Bellová, Roman Aubrecht, Tomáš Mikuš</i> Heavy mineral-based provenance analysis of Cretaceous synorogenic sandstones from the Klappe Unit, Poruba Formation and some controversial units.....	7
<i>Igor Broska, Keewook Yi, Milan Kohút, Pavel Uher, Igor Petrik</i> Two geotectonic types of S-type granites in the Tribeč Mts.: their possible evolution revealed by zircon SHRIMP dating.....	8
<i>Ryma Chebli, Karel Schulmann, Francis Chopin, Anne-Sophie Tabaud, Jean-François Ghienne, Mohamed El Houicha, Jitka Míková</i> Study of syn-tectonic intrusions of the Moroccan Meseta (High Moulouya and Jebilet massifs): contribution of remote sensing data and zircon U-Pb geochronology	9
<i>Stephen Collett, Karel Schulmann, Pavla Štípská, Jitka Míková</i> The origin and pre-Variscan development of high-grade rocks of the Krušné hory as revealed by LA-ICP-MS zircon geochronology and whole rock geochemistry	10
<i>Renata Čopjaková, Jana Kotková</i> Character of crustal-derived fluids metasomatizing mantle wedge: constraints from minerals in multiple solid inclusions	11
<i>Tamás Csibri, Michal Kováč, Jozef Hók</i> Geodynamic classification of the Lower and Middle Miocene coarse-grained sediments in Vienna Basin and Blatné depression (Danube basin).....	12
<i>Piérig Deiller, Pavla Štípská, Marc Ulrich, Karel Schulmann, Eric Pelt, Stephen Collett, Jitka Míková, Bradley Hacker, Andrew Kylander-Clark, Yingde D. Jiang, Vít Peřestý, Ondrej Lexa</i> Arc magmatism evidences in the Mariánské Lázně Complex – Čistá pluton and new insights from Hf analyses.....	13
<i>Jean Bernard Edel, Karel Schulmann, Ondrej Lexa, Jean Marc Lardeaux</i> Late Palaeozoic palaeomagnetic and tectonic constraints for amalgamation of Pangea supercontinent in European Variscan Belt	14
<i>László Fodor, Gábor Héja, Ada Kiss, Szilvia Kövér</i> Miocene structural evolution of the SW part of the Pannonian Basin: not only extension but compression and transpression	15
<i>Aleksandra Gawęda, Jan Golonka, Krzysztof Szopa, David Chew, Anna Waškowska, Krzysztof Starzec, Anna Wieczorek</i> The Protocarpathian continent: a fragment of Brunovistulia?	16

<i>Jan Golonka, Anna Wařkowska, Andrzej řlęcza, Krzysztof Starzec, Aleksandra Gawęda, Tadeusz řlomka, řlawomir Bębenek, Krzysztof řzopa, Marek Cieszkowski</i> The Silesian Ridge in Carpathian Tethys: its origin and evolution	17
<i>Radomir Grygar, Frantiřek Staněk, Jan Jelinek, Jana Stařková</i> Methodology for creating and visualization of 3D models for mineral deposits of critical EU commodities	18
<i>Alexandra Guy, Karel Schulmann, Wenjiao Xiao</i> Geophysical constraints for the tectonic reconstruction of the Chinese Altai.....	20
<i>Pavřlína Hasalová, Karel Schulmann, Urs Schaltegger, Pavla řtípská, Andrew Kylander-Clark, Roberto F. Weinberg, Sergey Sergeev</i> Timescale of pervasive melt migration in the Crust	21
<i>Gábor Héja, Szilvia Kővér, László Fodor</i> Structural inheritance vs. poly-phase folding: the effect of pre-existing normal faults on the formation of oblique compressional transfer zones – field and 3D seismic examples from the western Transdanubian Range (West Hungary)	22
<i>Petra Holá, Martin Racek, Petr Jeřábek, Gerlinde Habler</i> The exsolutions of two plagioclases in the magmatic labradorite, evidence from the coronitic metagabbro from the west of the Teplá-Barrandian Unit, Bohemian Massif	23
<i>Ervin Hrabovszki, Emese Tóth, Félix Schubert</i> Cone-in-cone structures: Crack-sealing or continuous vein growth?	24
<i>Kristýna Hrdličková, Pavel Hanřl, Alice Zavřelová, Vojtěch Janouřek, Altanbaatar Battushig, řitka Míková, Dorjsuren Otgonbaatar</i> Permian alkaline magmatism of the SW Mongolia – case study from the balloon-like Aaj Bogd composite pluton.....	25
<i>Frantiřek Hroudá, Shah W. Faryad, Marta Chlupáčová</i> Variation and origin of magnetic fabrics in some serpentinitized peridotites and eclogites from the Bohemian Massif	26
<i>Peter Ivan, řtefan Méres</i> Chromian spinels from the Palaeozoic ophiolitic rock complex of the Zlatník Group (Gemeric Superunit, Western Carpathians): composition, alteration and source rocks	27
<i>Petra Jakubová, Jana Kotková</i> Spectral parameters of microdiamonds from north Bohemian Saxothuringian basement.....	28
<i>řiří Janečka, Rostislav Melichar</i> Evidence for post diagenetic NW–SE horizontal compression as documented by stylolites, Prague Synform (Barrandian)	30
<i>Vojtěch Janouřek</i> (Ultra-) potassic plutonism – ‘the finest hour’ of the Variscan Orogeny in western–central Europe	31
<i>Michal Jaroř, řaromir Leichmann, Frantiřek Hroudá, Marta Chlupáčová, řaromir Hanák</i> Magnetic fabric of strongly magnetic granite of Anenský Mlýn occurring at E margin of weakly magnetic Western Granodiorite Complex of the Brno Batholith	33
<i>Marine Jouvent, Ondrej Lexa, Petr Jeřábek, řit Peřestý, Pavla řtípská</i> New constraints on the tectonometamorphic evolution of the Barrovian-type metasediments surrounding high-grade rocks of Erzgebirge Mts. (Saxothuringian unit, Bohemian Massif).....	34
<i>Jan Juráček</i> Preliminary paleostress analysis in the quarry Rořmitál at Broumov (Intra-Sudetic Basin, Czech Republic)	35
<i>Péter Kelemen, Gábor Csillag, řtván Dunkl, Andrea Mindszenty, řvett Kovács, řilmar von Eynatten, řándor Józsa</i> Kaolinite deposits trapped in karstic sinkholes of planation surface remnants used as paleotectonic, paleoclimate and provenance indicators, Transdanubian Range (Hungary), Pannonian Basin	36
<i>Martin Knížek, Nikola Komušová, Vojtěch řeřulka, řominika Muchová</i> Study of geomechanical conditions of magmatic rocks based on drillcore exploration of řínovec deposit (Bohemian Massif).....	37
<i>řulia V. Kochergina, Martin Novák, řadislav řtrnad, Vojtěch Erban</i> Chemical heterogeneity within a single small serpentinite body and its implications for mantle characterization as observed in the Biskoupky serpentinite, Czech Republic	38

<i>Milan Kohút, Robert Anczkiewicz, Vojtěch Erban, Yulia V. Kochergina, Tomáš Magna, Clemente Recio, Keewook Yi, Igor Broska</i>	
The Miocene granitic rocks of the Central Slovakian Neovolcanic Field: Isotopic constraints	39
<i>Jana Kotková, Renata Čopjaková, Antonio Acosta Vigil</i>	
Nature of the mass transfer in subduction zones between the slab and mantle wedge: constraints from the experimental study of multiphase solid inclusions	40
<i>Simona Krmičková, Lukáš Krmiček, Martin J. Timmerman, Jiří Sláma</i>	
Preliminary Sr–Nd–Pb–Hf isotope characteristics of the Slavkov Terrane and the Central Basic Belt, Brunovistulicum, Czech Republic	41
<i>Martin Kubeš, Jaromír Leichmann, Marta Chlupáčová</i>	
Geomagnetic properties of granitoids from the Slavkov terrane (Brunovistulicum) influenced by metasomatic transformation of paramagnetic to ferromagnetic phases.....	42
<i>Ondřej Lexa</i>	
Where does the Saxothuringian unit get its heat? Constraints and ideas.....	43
<i>Manfred Linner, Reinhard Roetzel, Benjamin Huet, Esther Hintersberger</i>	
Two nappes in the Austrian part of the Moravian Superunit	44
<i>Margot Loubiere, Alexandra Guy, Marc Munsch, Karel Schulmann</i>	
Geophysical constraints for suture zones in the Precambrian blocks of the Mongolian collage, Central Asian Orogenic Belt	45
<i>Miroslaw Ludwiniak, Michał Śmigielski, Sebastian Kowalczyk, Maciej Łoziński, Urszula Czarniecka, Lena Lewińska</i>	
The Late Cenozoic activity of the northern branch of the Vienna Basin Transform fault system (studies in the Orava Basin – a structural approach).....	46
<i>Jozef Madzin, Emő Márton, Dušan Plašienka</i>	
Magnetic fabric vs. sedimentary facies in rocks of the Central Carpathian Palaeogene Basin (Central Western Carpathians, Slovakia)	48
<i>Lukáš Mareček, Rostislav Melichar, Daniel Nývlt</i>	
How many types of primary fabric could be in one dyke?.....	49
<i>Emő Márton</i>	
Last scene in the large scale displacements of the Western Carpathians: paleomagnetic constraints.....	50
<i>Stanislaw Mazur, Mariusz Paszkowski, Martin J. Timmerman, Jiří Sláma</i>	
Is the Hamburg–Kraków–Dobrogea Fault a fossil plate boundary of Avalonia?.....	51
<i>Štefan Méres, Dušan Plašienka, Alexander Lačný</i>	
Lithology and paleotectonic significance of the Middle Triassic syn-rift sequence of the Turňa Unit (Western Carpathians)	52
<i>Michał Michalak, Waldemar Bardziński, Lesław Teper</i>	
Determining the orientation of a sub-horizontal contact lying within Kraków–Silesian Homocline (Poland) – on selected problems with application of Delaunay triangulation and cluster analysis	53
<i>Maria Młynarska, Stanislaw Mazur, Abigail Barker, Jaroslav Majka</i>	
Preserved in a Variscan suture, originally late Cambrian and arc-related – considering tectonic affinity of the Leszczyńiec Unit, Sudetes, Bohemian Massif.....	54
<i>Roland Nádaskay, Jiří Žák, Jiří Sláma, Tamara Sidorinová, Jaroslav Valečka</i>	
Detrital zircon geochronology and heavy mineral provenance of Late Paleozoic to Late Cretaceous sedimentary basins of the northern Bohemian Massif.....	56
<i>Radmila Nahodilová, Pavlína Hasalová, Pavla Štípská, Karel Schulmann, Prokop Závada, Jitka Míková, Andrew Kylander-Clark, Petra Maierová</i>	
Exhumation of subducted continental lower plate in the arc region.....	58
<i>Zoltán Németh, Lubomír Gazdačko, Pavel Bačo, Marián Putiš, Lubomír Hraško, Zuzana Bačová</i>	
Several generations stratabound and vein mineralization as a product of multiple orogenic cycles in the Western Carpathians.....	59

<i>Anne-Sophie Tabaud, Carmen Aguilar, Pavla Štípská, Karel Schulmann, Jean Wong, Min Sun, Jitka Míková, Stanislaw Mazur</i> Geochemistry, zircon U–Pb and Hf isotopic compositions of lower crustal rocks from the Góry Sowie Massif (Central Sudetes, SW Poland): New insights on the sedimentary origin and tectono-thermal evolution.....	83
<i>Martin J. Timmerman, Lukáš Krmiček, Simona Krmičková, Jiří Sláma</i> LA-ICP-MS zircon ages of the Slavkov Terrane, Central Basic Belt and Basal Clastics, Brunovistulicum, Czech Republic	84
<i>Marta Tomaszczyk, Marek Jarosiński, Andrzej Głuszyński</i> Mechanisms of tectonic deformation in the Main Dolomite (Upper Permian) on the Fore-Sudetic Homocline, SW Poland	85
<i>Filip Tomek, Jakub Trubač, Jiří Žák, Rainer Sennewald, Vojtěch Šešulka, Ondřej Krátký, Miroslav Štemprok</i> Postmagmatic evolution of the Cínovec/Zinnwald granite cupola (Bohemian Massif): is there a genetic relationship of pluton architecture to brittle structures and greisen vein system?	86
<i>Emese Tóth, Ervin Hrabovszki, Félix Schubert, Tivadar M. Tóth</i> Shear strain and volume change estimation in shear zones using sigmoidal extension veins	87
<i>Tivadar M. Tóth</i> Fracture network characterization using 1D and 2D data of the Mórágy Granite body, Southern Hungary.....	88
<i>Pavel Uher</i> Evolution and diversity of REE minerals during Earth history: a consequence of tectonic and biosphere development.....	89
<i>Petr Vitouš, Filip Tomek</i> Magnetic fabrics of the Altenberg–Teplice caldera rhyolite ignimbrites recoding pyroclastic density current flow directions and primary welding	90
<i>Petr Waclawik, Andrea Berčáková, Michal Osovský, Jiří Ptáček</i> View of the thrust structures development in the easternmost part of Ostrava Karviná Coalfield.....	91
<i>Antoni Wójcik, Rafał Sikora, Ewa Krzemińska, Stanisław Mikulski, Nescieruk Piotr</i> New data on the age of magmatic rocks in the Khasagt Mts (Zavkhan terrane, Western Mongolia).....	94
<i>Prokop Závada, Stephen Collett, Pavla Štípská, Pavlína Hasalová, Anne-Sophie Tabaud, Ondřej Krýza</i> Melt driven weakening and exhumation of the High Himalayan Crystalline (HHC) in Zaskar	95
<i>Alice Zavřelová, Kristýna Hrdličková, David Buriánek, Martin Svojtka, Vojtěch Janoušek, Pavel Hanžl</i> Synmagmatic leucogranites related to the southern part of the Třebíč pluton	96
<i>Tereza Zelinková, Martin Racek, Ondřej Lexa, Petr Jeřábek</i> Record of metamorphic and metasomatic processes at the contact of felsic and mafic rocks in high-temperature conditions (Dunkelsteiner Wald granulite massif, Bohemian Massif).....	97