

Institute of Geophysics of the ASCR, v. v. i.

RIV - actual data collecting

Document types: Impacted Journal Article, Journal Article, Monograph, Monograph Chapter, Proceedings Paper (International conf.), Proceedings Paper (Czech conf.)

Year(s): 2015

Database: ASEP

0430243 - GFU-E 2015 RIV GB eng J - Journal Article

Aker, E. - Kühn, D. - Vavryčuk, Václav - Soldal, M. - Oye, V.

Experimental investigation of acoustic emissions and their moment tensors in rock during failure.

International Journal of Rock Mechanics and Mining Sciences. Roč. 70, September (2014), s. 286-295. ISSN 1365-1609

R&D Projects: GA ČR(CZ) GAP210/12/1491

Not R&D Projects: European Commission(XE) FP7 Consortium Project AIM 230669

Institutional Support: RVO:67985530

Keywords: acoustic emissions * focal mechanisms * moment tensors * rock fracturing * hoop stresses * laboratory experiment

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 1.424, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235136>

• [DOI](#)

0431126 - GFU-E 2015 RIV DE eng J - Journal Article

Alexandrakis, C. - Calò, M. - Bouchaala, F. - Vavryčuk, Václav

Velocity structure and the role of fluids in the West Bohemia Seismic Zone.

Solid Earth. Roč. 5, č. 2 (2014), s. 863-872. ISSN 1869-9510

R&D Projects: GA ČR(CZ) GAP210/12/1491

Not R&D Projects: European Commission(XE) FP7 Consortium Project AIM 230669

Institutional Support: RVO:67985530

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 2.155, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235749>

• [DOI](#)

0430183 - GFU-E 2015 RIV CZ eng J - Journal Article

Ameen, N. N. - Klueglein, N. - Appel, E. - Petrovský, Eduard - Kappler, A. - Leven, C.

Effect of hydrocarbon-contaminated fluctuating groundwater on magnetic properties of shallow sediments.

Studia geophysica et geodaetica. Roč. 58, č. 3 (2014), s. 442-460. ISSN 0039-3169

R&D Projects: GA MŠK(CZ) LG13042

Institutional Support: RVO:67985530

Keywords: environmental magnetism * magnetic susceptibility * groundwater table fluctuation * hydrocarbon contamination * magnetite formation

Subject RIV: DE - Earth Magnetism, Geodesy, Geography

Impact factor: 0.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235118>

• [DOI](#)

0430185 - GFU-E 2015 RIV CZ eng J - Journal Article

Bezák, V. - Pek, Josef - Vozár, J. - Bielik, M. - Vozár, J.

Geoelectrical and geological structure of the crust in Western Slovakia.

Studia geophysica et geodaetica. Roč. 58, č. 3 (2014), s. 473-488. ISSN 0039-3169

Institutional Support: RVO:67985530

Keywords: magnetotellurics * MT15 profile * Western Carpathians * applied geophysics * Earth's crust

Impact factor: 0.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235117>

- [DOI](#)

0432104 - GFU-E 2015 RIV NL eng J - Journal Article

Brož, Petr - Čadek, O. - Hauber, E. - Rossi, A. P.

Shape of scoria cones on Mars: Insights from numerical modeling of ballistic pathways.

Earth and Planetary Science Letters. Roč. 406, November (2014), s. 14-23. ISSN 0012-821X

Institutional Support: RVO:67985530

Keywords: Mars * explosive volcanism * scoria cone * ballistic pathway

Impact factor: 4.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236570>

- [DOI](#)

0430184 - GFU-E 2015 RIV CZ eng J - Journal Article

Bucha, Václav

Geomagnetic activity and the North Atlantic Oscillation.

Studia geophysica et geodaetica. Roč. 58, č. 3 (2014), s. 461-472. ISSN 0039-3169

Institutional Support: RVO:67985530

Keywords: geomagnetic activity * solar wind * polar vortex intensification * downward winds

Subject RIV: DE - Earth Magnetism, Geodesy, Geography

Impact factor: 0.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235116>

- [DOI](#)

0429723 - UFA-U 2015 RIV GB eng J - Journal Article

Burešová, Dalia - Laštovička, Jan - Hejda, Pavel - Bochníček, Josef

Ionospheric disturbances under low solar activity conditions.

Advances in Space Research. Roč. 54, č. 2 (2014), s. 185-196. ISSN 0273-1177

R&D Projects: GA ČR(CZ) GAP209/11/1908

Institutional Support: RVO:68378289 ; RVO:67985530

Keywords: ionosphere * solar minimum * magnetic storms * ionospheric variability

Subject RIV: DG - Atmosphere Science, Meteorology; DG - Atmosphere Science, Meteorology

Impact factor: 1.238, year: 2013

<http://www.sciencedirect.com/science/article/pii/S027311771400221X>

Permanent link: <http://hdl.handle.net/11104/0234780>

- [WOS](#)

- [DOI](#)

0430182 - GFU-E 2015 RIV CZ eng J - Journal Article

Čermák, Vladimír - Bodri, L. - Šafanda, Jan - Krešl, Milan - Dědeček, Petr

Ground-air temperature tracking and multi-year cycles in the subsurface temperature time series at geothermal climate change observatory.

Studia geophysica et geodaetica. Roč. 58, č. 3 (2014), s. 406-424. ISSN 0039-3169

R&D Projects: GA ČR(CZ) GAP210/11/0183; GA AV ČR KSK3046108

Institutional Support: RVO:67985530

Keywords: borehole observatory * temperature monitoring * climate change * subsurface temperature

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 0.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235115>

- [DOI](#)

0427455 - GFU-E 2015 RIV GB eng J - Journal Article

Dahm, T. - Fischer, Tomáš

Velocity ratio variations in the source region of earthquake swarms in NW Bohemia obtained from arrival time double-differences.

Geophysical Journal International. Roč. 196, č. 2 (2014), s. 957-970. ISSN 0956-540X

Institutional Support: RVO:67985530

Keywords: tomography * earthquake source observations * volcano seismology

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 2.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0232985>

- [WOS](#)
- [DOI](#)

0428923 - GFU-E 2015 RIV GB eng J - Journal Article

Davídková, Hana - Plavcová, E. - Kynčl, J. - Kyselý, J.

Impacts of hot and cold spells differ for acute and chronic ischaemic heart diseases.

BMC Public Health. Roč. 14, May (2014), 480/1-480/11. ISSN 1471-2458

Institutional Support: RVO:67985530 ; RVO:68378289

Keywords: epidemiology * cardiovascular diseases * mortality * environment * climate

Subject RIV: DG - Atmosphere Science, Meteorology

Impact factor: 2.321, year: 2013

<http://www.biomedcentral.com/1471-2458/14/480>

Permanent link: <http://hdl.handle.net/11104/0234154>

- [DOI](#)

0426050 - GFU-E 2015 RIV NL eng J - Journal Article

Fischer, Tomáš - Horálek, Josef - Hrubcová, Pavla - Vavryčuk, Václav - Bräuer, K. - Kämpf, H.

Intra-continental earthquake swarms in West-Bohemia and Vogtland: A review.

Tectonophysics. Roč. 611, January (2014), s. 1-27. ISSN 0040-1951

R&D Projects: GA ČR GAP210/12/2451; GA ČR GAP210/12/2336; GA ČR(CZ) GAP210/12/1491

Institutional Support: RVO:67985530

Keywords: earthquake swarm * fluid * West Bohemia * Vogtland * earthquake triggering

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 2.866, year: 2013

Permanent link: <http://hdl.handle.net/11104/0231805>

- [WOS](#)
- [DOI](#)

0430278 - GFU-E 2015 RIV DE eng J - Journal Article

Charvátová, Ivanka - Hejda, Pavel

Responses of the basic cycles of 178.7 and 2402 yr in solar-terrestrial phenomena during the Holocene.

Pattern Recognition in Physics. Roč. 2, January (2014), s. 21-26. ISSN 2195-9242

R&D Projects: GA MŠK OC09070

Institutional Support: RVO:67985530

Subject RIV: DE - Earth Magnetism, Geodesy, Geography

Permanent link: <http://hdl.handle.net/11104/0235235>

- [DOI](#)

0425952 - GFU-E 2015 RIV NL eng J - Journal Article

Jechumtálová, Zuzana - Bulant, P.

Effects of 1-D versus 3-D velocity models on moment tensor inversion in the Dobrá Voda area in the Little Carpathians region, Slovakia.

Journal of Seismology. Roč. 18, č. 3 (2014), s. 511-531. ISSN 1383-4649

R&D Projects: GA ČR GAP210/10/1728

Institutional Support: RVO:67985530

Keywords: ray tracing * 1-D and 3-D velocity models * earthquake mechanism * amplitude inversion * Dobrá Voda earthquakes

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 1.386, year: 2013

Permanent link: <http://hdl.handle.net/11104/0231740>

- [DOI](#)

0428783 - GFU-E 2015 RIV GB eng J - Journal Article

Jechumtálová, Zuzana - Šílený, Jan - Trifu, C.-I.

Microearthquake mechanism from wave amplitudes recorded by a close-to-surface seismic array at Ocnele Mari, Romania.

Geophysical Journal International. Roč. 197, č. 3 (2014), s. 1608-1626. ISSN 0956-540X

R&D Projects: GA ČR GAP210/10/1728; GA ČR GAP210/12/2235

Not R&D Projects: European Commission(XE) FP7 Consortium Project AIM 230669

Institutional Support: RVO:67985530

Keywords: inverse theory * earthquake source observation * computational seismology * fractures and faults * mechanic, theory, and modelling

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 2.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234051>

- [WOS](#)
- [DOI](#)

0430559 - GFU-E 2015 RIV CZ eng J - Journal Article

Kolář, Petr

5 years of measurement of electromagnetic emission in West Bohemian seismoactive region.

Acta geodynamica et geomaterialia. Roč. 11, č. 2 (2014), s. 133-142. ISSN 1214-9705

R&D Projects: GA ČR GAP210/10/1728

Institutional Support: RVO:67985530

Keywords: electromagnetic emission observation * West Bohemian earthquake swarms

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 0.667, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235476>

- [WOS](#)
- [DOI](#)

0427521 - GFU-E 2015 RIV NL eng J - Journal Article

Laurin, Jiří - Čech, S. - Uličný, David - Štaffen, Z. - Svobodová, Marcela

Astrochronology of the Late Turonian: implications for the behavior of the carbon cycle at the demise of peak greenhouse.

Earth and Planetary Science Letters. Roč. 394, - (2014), s. 254-269. ISSN 0012-821X

R&D Projects: GA ČR GAP210/10/1991; GA MŠk LH12041

Institutional Support: RVO:67985530 ; RVO:67985831

Keywords: Turonian * Coniacian * Milankovitch * astrochronology * carbon isotopes * carbon cycle

Impact factor: 4.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0233044>

0430247 - GFU-E 2015 RIV NL eng J - Journal Article

Machek, Matěj - Roxerová, Zuzana - Závada, Prokop - Silva, P. F. - Henry, B. - Dědeček, Petr - Petrovský, Eduard - Marques, F. O.

Intrusion of lamprophyre dyke and related deformation effects in the host rock salt: A case study from the Loulé diapir, Portugal.

Tectonophysics. Roč. 629, August (2014), s. 165-178. ISSN 0040-1951

Institutional Support: RVO:67985530

Keywords: AMS * lamprophyre dyke * rock salt * paleomagnetism * microstructure * CPO

Subject RIV: DB - Geology & Mineralogy

Impact factor: 2.866, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235147>

- [DOI](#)

0398547 - GFU-E 2015 RIV GB eng J - Journal Article

Marsenić, Alexandra

A kinematic model of vertical geomagnetic field variation resulting from a steady convective flow.

Geophysical and Astrophysical Fluid Dynamics. Roč. 108, č. 2 (2014), s. 191-212. ISSN 0309-1929

Not R&D Projects: VEGA(SK) 2/0137/12

Institutional Support: RVO:67985530

Keywords: magnetohydrodynamics * induction equation * geomagnetic variation * reversed flux patches

Subject RIV: DE - Earth Magnetism, Geodesy, Geography

Impact factor: 0.924, year: 2013

Permanent link: <http://hdl.handle.net/11104/0226014>

- [WOS](#)
- [DOI](#)

0431295 - UMCH-V 2015 RIV DE eng J - Journal Article

Patsula, Vitalii - Petrovský, Eduard - Kovářová, Jana - Konefal, Rafal - Horák, Daniel

Monodisperse superparamagnetic nanoparticles by thermolysis of Fe(III) oleate and mandelate complexes.

Colloid and Polymer Science. Roč. 292, č. 9 (2014), s. 2097-2110. ISSN 0303-402X

R&D Projects: GA ČR GAP206/12/0381; GA MŠk 7E12053

Not R&D Projects: European Commission(XE) FP-7 NaDiNe No. 246513

Institutional Support: RVO:61389013 ; RVO:67985530

Keywords: superparamagnetic * nanoparticles * iron oxide

Subject RIV: CD - Macromolecular Chemistry; DE - Earth Magnetism, Geodesy, Geography

Impact factor: 2.410, year: 2013

Permanent link: <http://hdl.handle.net/11104/0236594>

- [SCOPUS](#)
- [DOI](#)

0430178 - GFU-E 2015 RIV CZ eng J - Journal Article

Prikner, Karel - Feygin, F. Z. - Raita, T.

Spatial structure of standing wave electromagnetic fields at the lower harmonics of the ionospheric Alfvén resonator.

Studia geophysica et geodaetica. Roč. 58, č. 2 (2014), s. 326-337. ISSN 0039-3169

Not R&D Projects: European Commission(XE) HPRI 200100132

Institutional Support: CEZ:AV0Z30120515

Keywords: ionospheric Alfvén resonator * full-wave numerical simulation * EISCAT measurements * standing wave oscillations

Subject RIV: DE - Earth Magnetism, Geodesy, Geography

Impact factor: 0.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235113>

- [WOS](#)
- [DOI](#)

0428782 - GFU-E 2015 RIV GB eng J - Journal Article

Pšencík, Ivan - Farra, V.

First-order P-wave ray synthetic seismograms in inhomogeneous, weakly anisotropic, layered media.

Geophysical Journal International. Roč. 198, č. 1 (2014), s. 298-307. ISSN 0956-540X

R&D Projects: GA ČR(CZ) GAP210/11/0117

Institutional Support: RVO:67985530

Keywords: body waves * seismic anisotropy * wave propagation

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 2.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234050>

- [DOI](#)

0430476 - USMH-B 2015 RIV PL eng J - Journal Article

Raška, P. - Hartvich, Filip - Cajz, Vladimír - Adamovič, Jiří

Structural setting of the Čertovka landslide (Ústí nad Labem, Czech Republic): morphostructural analysis and electrical resistivity tomography.

Geological Quarterly. Roč. 58, č. 1 (2014), s. 85-98. ISSN 1641-7291

R&D Projects: GA MŠK LM2010008

Institutional Support: RVO:67985891 ; RVO:67985530

Keywords: landslide * structural setting * faults * volcanic complex * geophysics

Subject RIV: DB - Geology & Mineralogy

Impact factor: 0.865, year: 2013

https://gg.pgi.gov.pl/article/view/9260/pdf_1118

Permanent link: <http://hdl.handle.net/11104/0235401>

- [WOS](#)
- [DOI](#)

0428965 - GFU-E 2015 RIV NL eng J - Journal Article

Silva, P. F. - Marques, F. O. - Machek, Matěj - Henry, B. - Hirt, A. M. - Roxerová, Zuzana - Madureira, P. - Vratislav, S.

Evidence for non-coaxiality of ferrimagnetic and paramagnetic fabrics, developed during magma flow and cooling in a thick mafic dyke.

Tectonophysics. Roč. 629, August (2014), s. 155-164. ISSN 0040-1951

Institutional Support: RVO:67985530

Keywords: paramagnetic * ferrimagnetic * fabrics * microstructures * dyke emplacement * stress field

Subject RIV: DB - Geology & Mineralogy

Impact factor: 2.866, year: 2013

Permanent link: <http://hdl.handle.net/11104/0234177>

- [DOI](#)

0430236 - GFU-E 2015 RIV GB eng J - Journal Article

Stierle, E. - Vavryčuk, Václav - Šílený, Jan - Bohnhoff, M.

Resolution of non-double-couple components in the seismic moment tensor using regional networks-I: a synthetic case study.

Geophysical Journal International. Roč. 196, č. 3 (2014), s. 1869-1877. ISSN 0956-540X

R&D Projects: GA ČR(CZ) GAP210/12/1491; GA ČR GAP210/12/2235

Institutional Support: RVO:67985530

Keywords: inverse theory * numerical approximations and analysis * earthquake source observations * theoretical seismology

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 2.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235131>

- [WOS](#)
- [DOI](#)

0430237 - GFU-E 2015 RIV GB eng J - Journal Article

Stierle, E. - Bohnhoff, M. - Vavryčuk, Václav

Resolution of non-double-couple components in the seismic moment tensor using regional networks-II: application to aftershocks of the 1999 M-w 7.4 Izmit earthquake.

Geophysical Journal International. Roč. 196, č. 3 (2014), s. 1878-1888. ISSN 0956-540X

R&D Projects: GA ČR(CZ) GAP210/12/1491

Institutional Support: RVO:67985530

Keywords: earthquake source observations * seismicity and tectonics * continental tectonics: extensional

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 2.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235133>

- [WOS](#)
- [DOI](#)

0427018 - GFU-E 2015 RIV SA eng J - Journal Article

Sultan, S. A. - Pek, Josef

Delineating groundwater aquifer and subsurface structures using integrated geophysical interpretation at the western part of Gulf of Aqaba, Sinai, Egypt.

International Journal of Water Resources and Arid Environments. Roč. 3, č. 1 (2014), s. 51-62. ISSN 2079-7079

Institutional Support: RVO:67985530

Keywords: groundwater * gravity * magnetic and seismicity

Subject RIV: DE - Earth Magnetism, Geodesy, Geography

Permanent link: <http://hdl.handle.net/11104/0232653>

0424879 - GFU-E 2015 RIV CZ eng J - Journal Article

Špičák, Aleš - Vaněk, Jiří

Kamchatka subduction zone, May 2013: the Mw 8.3 deep earthquake, preceding shallow swarm and numerous deep aftershocks.

Studia geophysica et geodaetica. Roč. 58, č. 1 (2014), s. 76-83. ISSN 0039-3169

Institutional Support: RVO:67985530

Keywords: Kamchatka * deep earthquake * earthquake swarm * Wadati-Benioff zone

Subject RIV: DC - Siesmology, Volcanology, Earth Structure

Impact factor: 0.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0230863>

- [DOI](#)

0430177 - GFU-E 2015 RIV NL eng J - Journal Article

Uličný, David - Jarvis, J. - Gröcke, D. R. - Čech, S. - Laurin, Jiří - Olde, K. - Trabucho-Alexandre, J. - Švábenická, L. - Pedentchouk, N.

A high-resolution carbon-isotope record of the Turonian stage correlated to a siliciclastic basin fill: Implications for mid-Cretaceous sea-level change.

Palaeogeography, Palaeoclimatology, Palaeoecology. Roč. 405, July (2014), s. 42-58. ISSN 0031-0182

Institutional Support: RVO:67985530

Keywords: eustasy * carbon isotopes * Bohemian Cretaceous Basin * Turonian * greenhouse climate * sequence stratigraphy

Subject RIV: DB - Geology & Mineralogy

Impact factor: 2.752, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235111>

- [WOS](#)
- [DOI](#)

0396264 - GFU-E 2015 RIV DE eng J - Journal Article

Urban, Aleš - Davidkovová, Hana - Kyselý, Jan

Heat- and cold-stress effects on cardiovascular mortality and morbidity among urban and rural populations in the Czech Republic.

International Journal of Biometeorology. Roč. 58, - (2014), s. 1057-1068. ISSN 0020-7128

Institutional Support: RVO:67985530 ; RVO:68378289

Keywords: heat and cold stress * cardiovascular disease * mortality * morbidity * urban and rural differences * Central Europe

Subject RIV: DG - Atmosphere Science, Meteorology

Impact factor: 2.104, year: 2013

Permanent link: <http://hdl.handle.net/11104/0224107>

- [DOI](#)

0430279 - GFU-E 2015 RIV GB eng J - Journal Article

Valach, F. - Bochníček, Josef - Hejda, Pavel - Revallo, M.

Strong geomagnetic activity forecast by neural networks under dominant southern orientation of the interplanetary magnetic field.

Advances in Space Research. Roč. 53, č. 4 (2014), s. 589-598. ISSN 0273-1177

R&D Projects: GA AV ČR(CZ) IAA300120608; GA MŠk OC09070

Institutional Support: RVO:67985530

Keywords: geomagnetic activity * interplanetary magnetic field * artificial neural network * ejection of coronal mass * X-ray flares

Subject RIV: DE - Earth Magnetism, Geodesy, Geography

Impact factor: 1.238, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235237>

- [WOS](#)
- [DOI](#)

0430240 - GFU-E 2015 RIV GB eng J - Journal Article

Vavryčuk, Václav

Iterative joint inversion for stress and fault orientations from focal mechanisms.

Geophysical Journal International. Roč. 199, č. 1 (2014), s. 69-77. ISSN 0956-540X

R&D Projects: GA ČR(CZ) GAP210/12/1491

Institutional Support: RVO:67985530

Keywords: earthquake source observations * seismicity and tectonics * theoretical seismology

Subject RIV: DC - Seismology, Volcanology, Earth Structure

Impact factor: 2.724, year: 2013

Permanent link: <http://hdl.handle.net/11104/0235134>

- [DOI](#)

0425801 - GFU-E 2015 RIV GB eng J - Journal Article

Verner, K. - Žák, J. - Šrámek, F. - Paclíková, J. - Zavřelová, A. - Machek, Matěj - Finger, F. - Johnson, K.

Formation of elongated granite-migmatite domes as isostatic accommodation structures in collisional orogens.

Journal of Geodynamics. Roč. 73, January (2014), s. 100-117. ISSN 0264-3707

Institutional Support: RVO:67985530

Keywords: anisotropy of magnetic susceptibility * Bohemian Massif * granite-migmatite dome * metamorphic core complex * exhumation

Subject RIV: DB - Geology & Mineralogy

Impact factor: 2.618, year: 2013

Permanent link: <http://hdl.handle.net/11104/0231586>

- [WOS](#)
- [DOI](#)