

## Inhaltsverzeichnis

Grußworte.....	13
Lithology of the covered Old Red succession (Middle Devonian) in Western Pomerania (NE Germany) .....	38
M. AEHNELT, G. KATZUNG	
Facies analysis and palaeogeographic implications of a Late Permian succession, Iraq .....	39
A. AL-JUBOURY, A. AL-HADIDY	
Gas bearing sediments of the Plio- and Pleistocene in the German North Sea .....	40
J. APPEL, A. VACKINER, H. KEPPLER, R. LUTZ, C. GAEDICKE	
Iron-Nickel and Nickel Silicate Ores of Albania.....	41
F. ARKAXHIU, F. ONUZI	
The requirements of the new EC directive INSPIRE and the reality of compiling consistent environmental data across Europe – Lessons learned from the IGME 5000.....	44
K. ASCH	
Triassic Stratigraphy, Facies and Hydrocarbons of the Southern Permian Basin Area (SPBA) .....	45
G. H. BACHMANN, A. BECKER, G. BEUTLER, M.C. GELUK, H. HAGDORN, M. W. HOUNSLOW, L. NIELSEN E. NITSCH, H.-G. RÖHLING, TH. SIMON, A. SZULC, G. WARRINGTON	
Threats for the Groundwater Reserves within the West Pomeranian Voivodship – Areas of the water deficiency occurrence and the groundwater table position changes .....	48
A. BACIK, M. DOBIES, Z. WIŚNIEWSKI	
The Sudetic Marginal Fault: A prominent morphotectonic feature of Central Europe .....	51
J. BADURA, W. ZUCHIEWICZ, P. ŠTĚPANČIKOVÁ, B. PRZYBYLSKI, B. KONTNY, S. CACOŇ	
Lithostratigraphic correlation of the Late Triassic Keuper in the western part of the Central European Basin .....	52
J. BARNASCH, G.H. BACHMANN, G. BEUTLER	
Marine environment in the Lower and Middle Buntsandstein of the Central European Basin – summary of the facts .....	54
A. BECKER	
For the water content in the atmosphere: New formulas .....	56
L. BIERMANN	
Peculiarities of palaeogeographic reconstructions in the South-Eastern Baltic: methodological approach.....	57
A. BITINAS	
Mapping Status of near-surface raw materials of Mecklenburg-Vorpommern (NE-Germany) .....	58
A. BÖRNER	
Geotouristic map of UNESCO-Geopark «Mecklenburgische Eiszeitlandschaft».....	60
A. BÖRNER, K. SCHÜTZE	
New general map of raw materials of Mecklenburg-Vorpommern (NE-Germany) in the scale of 1:500.000 ....	62
A. BÖRNER	
The Geosite-database Greifswald: the pool .....	63
J. BORNSTEDT, M. MESCHÉDE	
Geo4you – a young geotourist company .....	64
J. BORNSTEDT, M. MESCHÉDE, C. SCHWANBECK	
Evolution of the Szczecin Lagoon as reconstructed with geological and micropalaeontological data .....	65
R.K. BORÓWKA, A. WITKOWSKI, M. BAŁ, M. LATAŁOWA, A. OSADCZUK, T. RADZIEJEWSKA, B. WAWRZYŃIAK-WYDROWSKA, A. NOWAK	

Geology of Dziwna Valley in vicinity of Wolin.....	66
R.K. BORÓWKA, M. LATAŁOWA	
Uranium Deposits at Ruprechtov (CZ) and Heselbach (D) as Natural Analogues for Radionuclide Transport and Retention in Lignitic Clay Formations .....	68
TH. BRASSER, U. NOSECK, K. ROZANSKI, M. DULINSKI, J. JANECZEK, A. LACIOK, M. HERCIK, D. SCHÖNWIESE	
Structural conditions of valley network development in the western Lublin escarpment zone of the East European Craton .....	69
T. BRZEZIŃSKA-WÓJCIK, M. HARASIMIUK, J. SUPERSON	
Tree rings - a valuable proxy of information on climatic changes .....	74
A. CEDRO	
Lithology, petrology, and microfacial variability of Upper-Jurassic sediments in Western Pomeranian exposures .....	75
B. CEDRO	
The Environmental changes reconstruction recorded in Vistulian and Holocene sediments of Rega valley ....	76
B. CEDRO, D. ZAWADZKI, M. GILUK, S. SUMARA, T. RUSINIAK	
Predictive model of quartz cementation and porosity in Cambrian reservoir sandstones, example from West Lithuania onshore .....	77
J. ČYŽIENĖ	
Morphotectonic phenomena in Lithuania and proposal for their cartographic presentation at a scale of 1: 250,000 .....	79
J. ČYŽIENĖ, J. SATKŪNAS, W. CZEGKA, F.W. JUNGE	
Zwenkau: the genesis from a lignite open cast mine to a recreation lake. Hydro- and geochemical impacts.....	81
W. CZEGKA, F.W. JUNGE	
Development of the lower Łupawa valley in late Pleistocene .....	83
J. CZERNAWSKA	
The Linearband and Stroke Band Pottery in the Lower Oder area -early farmers in the North? .....	84
E. CZIESLA	
The Friedland Clay – new prospects of a traditional natural resource .....	85
R. DALLWIG, K. GRANITZKI, D. SCHMIDT	
Strontium isotopes in the Zechstein anhydrites of Poland: evidence of varied meteoric contributions to marine brines .....	86
R.E. DENISON, T. M. PERYT	
The Petroleum Geological Atlas of the Southern Permian Basin Area – Overview of the SPBA-Project .....	87
J.C. DOORNENBAL	
Slope deposits of palaeoclimatic events – first terrestrial evidence for geomorphic instability during the 8.2 ka event in Central Europe .....	88
S. DREIBRODT, J. LOMAX, O. NELLE, U.RADTKE, P.M. GROOTES, H.-R. BORK	
Long-term coastline development in the region of Dziwnow Spit. ....	89
J. DUDZINSKA-NOWAK	
Airborne and terrestrial laser scanning applications in the environmental geology.....	90
J. DUDZINSKA-NOWAK, P. WEZYK	
Multidisciplinary investigations on the early Middle Ages organisation of the Szczecin pottery - an outline of problems .....	91
M. DWORACZYK	
The UN International Year of Planet Earth: A Progress Report .....	93
F.W. EDER	

Specimen of German and Polish copper deposits in the collection of the BGR.....	95
A. EHLING	
The use of sandstones in Germany and Poland in history .....	96
A. EHLING	
The Mesozoic sandstone aquifers of the North German Basin and their potential for the geothermal utilization.....	97
H. FELDRAPPE, K. OBST, M. WOLFGRAMM, N. BUSSMANN	
Salt structures – exploration and limits of interpretation .....	98
S. FOLLE	
Retyk <i>sensu polonico</i> versus Rhaet <i>sensu germanico</i> – new results.....	99
M. FRANZ, G.H. BACHMANN, G. BEUTLER	
Sedimentology and Facies of the Polish Retyk and the German Arnstadt and Exter Formations (Norian, Rhaetian) in the eastern Central European Basin (CEB).....	101
M. FRANZ, G.H. BACHMANN, G. BEUTLER	
Prediction of the coastal erosion – in a selected example.....	102
K. FURMANCZYK, J. DUDZINSKA-NOWAK	
An outline of brines history in Kołobrzeg .....	103
P. FUSZARA, A. PIOTROWSKI	
Permian Rotliegend in a Nutshell. – Chapter 7 of the Southern Permian Basin Atlas.....	104
R. GAST, C. BREITKREUZ, R. GAUPP, M.C. GELUK, K. GLENNIE, N. JONES, S. KABEL, H. KIERSNOWSKI, J. SCHNEIDER, J. STEENBRINK, L. STEMMERIK	
Geothermal use of multilayered aquifers – A 3D thermo-hydraulic model of a geothermal reservoir at the Island of Usedom / North East German Basin .....	105
D. GEHRKE, J. BARTELS, M. WOLFGRAMM	
Lithofacies and geochemistry of Rotliegend volcanic rocks from deep wells on both sides of the German-Polish border - completing the picture of the initial phase of the Central European Basin System.....	106
M. GEISSLER, K. OBST, C. BREITKREUZ, H. KIERSNOWSKI	
The geological observations of Johann Wolfgang von Goethe in Northern Germany .....	108
M. GEYER, G. MAUL, M. MEISSNER, I. PUSTAL, H.-G. RÖHLING	
Early exploration in the Southern Permian Basin Atlas area .....	109
K. GLENNIE	
Fascination geology - the magnificence of geosites.....	110
K. GOTH, H. QUADE, E.-R. LOOK	
Late Variscan remagnetization of Devonian carbonates in the Holy Cross Mts. and Lublin Basin (Poland) : evidence for cooling in the Variscan foreland? .....	111
J. GRABOWSKI, M. NARKIEWICZ, K. SOBIEN	
Cisuralian/Guadalupian and Guadalupian/Lopingian boundaries of the Permian GSS in the East European and Tethyan RSSs .....	112
T. GRUNT	
An integrated approach to assess slope stability and landslide susceptibility of the Jasmund cliff (Rügen, Germany).....	113
A. GÜNTHER, C. THIEL, C. LANGE, K. SCHÜTZE, D. KUHN, K. OBST, D. BALZER	
Cross-boundary water monitoring of the border-zone areas in the Euroregion Pomerania.....	114
S. HANNAPPEL, E. REJMAN-RASINSKA, H. MUNDTHAL, K.-D. FICHTE, R. HOC, Z. WIŚNIOWSKI	
Variation of Late Quaternary Climate of the North Atlantic - Baltic Realm as reflected in the Sediments of the Central Baltic Sea.....	115
J. HARFF, R. ENDLER, E. EMELYANOV, S. KOTOV, T. LEIPE, R. OLEA, M. TOMSČAK, A. WITKOWSKI	

Holocene Coastlines of the Southern Baltic Sea – a History of Competition between geological processes and a changing climate .....	116
J. HARFF, S. USCINOWICZ	
Substratum morphology, ice thickness estimation and the location of tunnel valleys as proxies in the reconstruction of the dynamics of the Odra lobe during the Last Glaciation .....	117
P. HERMANOWSKI, J. A. PIOTROWSKI	
Erratic boulders as a geotouristic highlight – the “Usedomer Gesteinsgarten” .....	118
G. HOFFMANN, H. DIETRICH	
Long-term coastal changes on the southwest Baltic Sea (Germany) – a sediment budget approach .....	119
G. HOFFMANN, R. LAMPE	
The Upper Jurassic shallow marine deposits in Western Pomerania (Zachodniopomorskie, Poland) and their geotouristic potential.....	120
N. HOFFMANN, G. HOFFMANN, M. MESCHÉDE, J. KOPPKA	
Lower Carboniferous palaeogeography and hydrocarbon potential in the North German Basin – derived from magnetotelluric soundings .....	121
N. HOFFMANN, L. HENGESBACH, B. FRIEDRICH	
Geoconservation versus Geo-exploitation and the Emergence of Modern Geotourism .....	122
TH. A. HOSE	
Celestite in the Werra anhydrite from the Zechstein Limestone reef region (West Poland): is there a relation to gas deposits?.....	123
S.P. HRYNIV, T.M. PERYT	
Holocene changes of marine and lagoonal environments on the Łeba Barrier: evidences from diatomological and geochemical analysis. Polish Middle-Coast.....	124
B. JANCZAK-KOSTECKA, R. KOSTECKI	
The reconstruction of environmental changes in the Puck Bay region based on the fossil diatom flora .....	125
D. JANKOWSKA, M. WITAK	
Sedimentary Environments and Maturity of the Zechstein (Late Permian) Main Dolostone in West Pomerania .....	126
K. JAWOROWSKI, R. WAGNER, Z. MIKOLAJEWSKI, M. SŁOWAKIEWICZ	
Karst phenomena on top Wapno Salt Dom .....	127
J. JAWORSKA, R. RATAJCZAK	
Estimation of Major Groundwater Basin (MGB) hazard as a result of saline water inflow (ascent) in Western Pomerania Province .....	128
P. JEZERSKI, Z. WIŚNIEWSKI, R. HOC	
The evolution of the Variscan Deformation Front from the interplay of tectonics and coalification.....	129
D. JUCH , G. DROZDZEWSKI , S. HENSCHIED, P. HOTH, A. VIETH, V. WREDE	
3D-Model of Quaternary Deposits along Lower Oder-/Odra-Valley .....	130
O. JUSCHUS, M. MASUROWSKI, J. H. SCHROEDER, W. DOMINIK	
The peat bog site of Dabki 9 in Pomerania (Poland) .....	131
J. KABACIŃSKI, T. TERBERGER	
Identifying burst-prone rock layers in a German coal mine.....	132
E. KAHLÉN, M. ALBER	
Lateglacial palaeosols in Northern Germany: properties and palaeoenvironmental implications.....	133
K. KAISER	
Distribution and characteristics of late-glacial varved deposits in North-Western Poland.....	134
A. KARCZEWSKI, RE. PALUSZKIEWICZ, RY. PALUSZKIEWICZ, G. RACHLEWICZ	

Subsoil moisture loses from open surfaces .....	135
A. KARPOVICS, V. SEGLINS	
Long-Term Stability of Bentonite Barriers in final HWL-repositories ? Mechanisms for mineralogical alteration of dioctahedral montmorillonite in saline solutions – a TEM-study .....	137
J. KASBOHM, H.-J. HERBERT, HOANG THI MINH THAO, LE THI LAI, S. GROTHE	
Integrated Water Resource Management – First Concepts for Activities in Nam Dinh province as part of the Red River Delta / Vietnam .....	138
J. KASBOHM, S. GROTHE, W. STEINGRUBE, M.-T. SCHAFMEISTER, LE THI LA	
Explorations of the Fossil River Valleys from the Eemian Interglacial with fresh water by the Aid of Seismic Method .....	140
L.J. KASZUBOWSKI, R. COUFAL	
Geological structures and neotectonic movements in the area of the Dziwnów Spit (Międzywodzie West).....	141
L.J. KASZUBOWSKI, R.DOBRAKCI	
Neotectonic movements in the area of the Liwia Łuża Lake Spit (seismic cross-sections Pogorzelica East and Pogorzelica West) in the light of seismic and geological research.....	142
L.J. KASZUBOWSKI, R. DOBRACKI	
Neotectonic structures in the area of the Liwia Łuża Lake Spit .....	143
L.J. KASZUBOWSKI, R. DOBRACKI	
Stratigraphy, structure, sedimentary infill and undiscovered gas reservoir potential of the Polish Upper Rotliegend Basin: some insights and conceptual considerations. ....	144
H. KIERSNOWSKI	
Recent advances and open questions concerning the Polish- and North-East-German Upper Permian (Upper Rotliegend - Zechstein) stratigraphy and basin correlations .....	145
H. KIERSNOWSKI, M. SŁOWAKIEWICZ	
Fossil diatom floras as a tool in reconstructing palaeoenvironmental changes in the Holocene sediments from the Pomeranian Bay and the Swina Gate (Southern Baltic Sea).....	147
A. KIERZEK, A. WITKOWSKI, K. ZAMELCZYK-JUHNKE, A. BROSZINSKI, R.K. BORÓWKA, U. RODA, J. BIEŃKO	
Baltic Sea beaches with glacial erratics: Their potential as excursion sites for teaching elementary science ..	148
K. KLEINERT	
The geodynamical conditions and the protection problems of the Russian and Polish coastal zone of the Vistula Spit .....	149
J. KOBELYANSKAYA, H. PIEKAREK-JANKOWSKA	
Putting the Carboniferous of NW Europe in a regional context; the Atlas of the Southern Permian Basin Area .....	150
H. KOMBRINK, H.J.M. PAGNIER	
The copper deposit Spremberg-Graustein close to the northern rim of the Mulkwitz-anticline in the area Lower Lusatia .....	151
J.C. KOPP	
Facies model of the contemporary Vistula's outlet cone.....	154
D. KOSZKA-MARON, W. JEGLIŃSKI	
Fluid inclusions in the Zechstein halite screening hydrocarbon deposits in West Poland.....	155
V.M. KOVALEVYCH, T.M. PERYT, S. LYTVYNYUK	
Origin and development of the Odra Bank Region on the basis of the biostratigraphical investigations of W-4 Profile .....	156
R. KRAMARSKA, G. MIOTK-SZPIGANOWICZ, J. ZACHOWICZ, S. USCINOWICZ, W. JJEGLIŃSKI	
GeoMind - Geophysical Multilingual Internet-Driven Information Service .....	157
J. KUDER, K. KÜHNE, M. SŁOWAKIEWICZ, V. RAPŠEVIČIUS, GEOMIND CONSORTIUM	

Geothermal conditions of the north-western part of the Black Sea and oil-gas presence.....	158
I. KUROVETS, V. OSADCHYI, O. PRYKHODKO, I. HRYTSYK	
The Late Holocene shore dynamics of the peninsula Großer Schwerin -Lake Müritz (Northeast Germany) ...	159
M. KÜSTER, S. LORENZ, R. LAMPE	
Changes in glacial atmospheric circulation pattern over the Mediterranean documented by a Black Sea Precipitation Record .....	160
O. KWIECIEN, H.W. ARZ, F. LAMY, B. PLESSEN, P. DULSKI, G.H. HAUG	
The increase of the dune coastal area of the Swina Sandbar, West Polish coast.....	161
T.A. ŁABUZ	
The West Pomerania coastal dunes – alert state of their development.....	162
T.A. ŁABUZ	
A multi-proxy record of climate change at the Lateglacial / early Holocene transition from Lake Hańcza, Northeastern Poland .....	163
S. LAUTERBACH, N. ANDERSEN, K. MILECKA, T. NAMIOTKO, K. ZAMELCZYK, A. BRAUER	
Regional geological and structural studies of the territory of Lithuania – implications for the petroleum potential .....	164
J. LAZAUSKIENE, J. CYZIENE	
Rotliegend saline lake deposits – an example from the Southern Permian Basin (Permian, Northwest Europe).....	167
B. LEGLER	
Evidence for recent vertical crustal movements within the North German Basin from evaluation of precise levelling data .....	168
R. LEHNÉ, F. SIROCKO	
Diatom evidences of Holocene climatic fluctuations recorded in sediments of the SW Gulf of Gdańsk .....	169
M. LEŚNIEWSKA, M. WITAK	
The Climate Record of the End of the Last Glacial Period based on geochemical and micromorphological Study – the Case Study from Gravetian Settlement in Dolni Vestonice (Czech Republic) .....	170
L. LISA, T. GRYGAR	
Delineation between natural and anthropogenic impacts on groundwater and stream water solute concentration .....	171
G. LISCHIED, P. KRÁM	
Neotectonics of the Orava Basin, Polish Western Carpathians, in the light of gravity studies .....	172
M. ŁÓJ, J. MADEJ, W. ZUCHIEWICZ, S. PORZUCEK	
The Lake Müritz drilling project – 14 ka lake basin development and vegetation history reflected in geochemical, pollen and diatom records .....	173
S. LORENZ, R. LAMPE, H. MEYER, W. JANKE, T. HÜBENER	
Underwater archaeological investigations of the SINCOS-research group on submerged Stone Age settlements in coastal waters of Rügen Island.....	174
H. LÜBKE	
The discovery of the first (?) tell-like structure north of the Alps – geoarchaeological investigations at Niederröbblingen (Sachsen-Anhalt, Germany).....	175
C.C. M. LUBOS, S. DREIBRODT, S. FRIEDERICH, H. MELLER, R. GANSLMEIER, H. HELBIG, M. HELLMUND, W. KAINZ, M. KLAMM, U. PETZSCHMANN, I. RICHLING, O. NELLE, P.M. GROOTES, H.-R. BORK	

X-Ray Powder Diffraction Study of Clay Minerals Deposits by Rietveld method.....	176
I. LUSE, A. MISHNEV, V. SEGLINS, A. KARPOVICS	
Landscape Visualization for Better Understanding and Interpretation Glacial Landscapes – Examples from Geopark “Eiszeitland am Oderrand” .....	177
G. LUTZE, J. KIESEL, C. DALCHOW	
Contemporary tectonic activity in the area of Głogów – at the borderland of Dalków Hills and Baruck – Głogów Ice-Marginal Valley (SW Poland).....	180
A. MARKIEWICZ, A. KRAIŃSKI	
Gravitational collapse in the Nysa Łużycka River valley between Łęknica and Döbern (Polish-German borderland).....	183
A. MARKIEWICZ, J. WINNICKI	
Balkan Seismic-Hydrogeological Study – Important Environmental Task .....	185
M. MATOVA	
The Devonian and Carboniferous sedimentary evolution of the Pomeranian Basin (NW Poland) .....	186
H. MATYJA	
Numerical calibration of the Global Stratigraphic Scale (GSS) and Regional Stratigraphic Scales (RSS) of the Permian: Central and West Europe, East Europe, Tethys and North America .....	187
M. MENNING	
The project Devonian–Carboniferous–Permian Correlation Chart (DCP).....	190
M. MENNING & DCP-GROUP	
Global Stratigraphic Scale of the Carboniferous and Regional Stratigraphic Scales of Central and West Europe, Central Russia, Donets, South China, and North America as used in the Devonian–Carboniferous–Permian Correlation Chart 2003 (DCP 2003) .....	192
M. MENNING, A.S. ALEKSEEV, B.I. CHUVASHOV, V.I. DAVYDOV, F.-X. DEVUYST, H.C. FORKE, L. HANCE, P.H. HECKEL, P.J. JONES, T.I. NEMYROVSKA, X.-D. WANG, D. WEYER, D.M. WORK	
Oil and gas in Germany – an overview .....	195
J. MESSNER	
Application of seismoacoustic methods to a study of geodynamic processes within the offshore between Ustka and Władysławowo .....	196
L. MIL	
Cross-bordering Groundwater Management at Eastern Usedom – Conflicts and Solutions .....	197
M. MODER, H. HENNIG, H. MUNDTHAL, W. KOWALCZYK	
The in-situ stress field of a geothermal reservoir in the Rotliegend of the NE German Basin: Implications from 3D structural modelling .....	198
I. MOECK, T. BACKERS, H. SCHANDELMEIER	
Quaternary stratigraphy and glacial tectonics of NE Rügen (Germany) – new insights from boreholes drilled after the landslide of Lohme in 2005.....	199
U. MÜLLER, K. OBST	
Classification of the Szczecin Lagoon coasts (Polish part).....	201
S. MUSIELAK, S. WOCHNA-BARTNIK	
Geological structure and palaeogeographic reconstruction of the Bug peninsula /NW-Rügen island. ....	202
M. NAUMANN, R. LAMPE, G. HOFFMANN	
What can be learned about recent history of the Szczecin Lagoon by analysing subfossil cladoceran remains in short cores .....	203
A. NOWAK, P. LIS, K. SZEROCZYŃSKA, T. RADZIEJEWSKA	
Underground natural gas storage facilities in NE Germany .....	204
K. OBST	

The coastal cliff slides at the geosite of the ‘Wissower Klinken’, island of Rügen (NE Germany): controlling factors and monitoring.....	206
K. OBST, D. KUHN, K. SCHÜTZE, S. PRÜFER	
LEPUSHA VILLAGE (Albanian).....	207
K. ONUZI, P. YMERAJ	
New geoarchaeological investigations of paleoclimate at the site of Dolní Vestonice, Czech Republic .....	209
C.H. PAINE	
BSR vs. TSR – new insights from cap rock formation of the Weenzen salt dome, Lower Saxony Basin, NW Germany.....	210
H. PETERS, A. PRANGE, H. LICHTENBERG, J. HORMES, C. OSTERTAG-HENNING, J. PECKMANN	
Development of subaquatic and subaerial surfaces as a result of hazardous morpho- and lithodynamic processes in the coastal zone of the eastern Gulf of Finland and Kaliningrad area .....	211
O.V. PETROV, D.V. RYABCHUK, M.A. SPIRIDONOV, V.A. ZHAMOIDA	
Position of main morphologic units against geologic and tectonic sketch of the Southern Baltic Sea (EEC of Poland).....	212
R. PIKIES, A. PIOTROWSKI	
Erratics and their exploitation in the Bukowe Mountains, near Szczecin.....	214
A. PIOTROWSKI	
Morphology of the Odra Lobe of the last glaciation on the background of tectonic structure.....	215
A. PIOTROWSKI	
Discussion on a method of preparation of the the European Lowland Morphotectonic Map.....	217
A. PIOTROWSKI, M. GRANICZNY	
Morphotectonics of Kujawy Lakeland in the light of remote sensing analysis.....	219
A. PIOTROWSKI, A. PIATKOWSKA, M. GRANICZNY	
Megalith and group of boulders in the Roścín vicinity, near Myslibórz, Western Pomerania .....	221
A. PIOTROWSKI, J. RELISKO-RYBAK, Z. ONYSZKO	
The Viking Boulder – an erratic stone in Wolin.....	222
A. PIOTROWSKI, J. RELISKO-RYBAK, T. PIOTROWSKI	
Temperature and rainfall time trends in area of Swinoujście in years 1951-2000 .....	223
A. PRES-SZAKOWSKA	
Differentiation in geological structure of the Polish shore zone, based on seismo–acoustic investigations ....	224
P. PRZEZDZIECKI	
Mineralogical and geochemical investigations on red and bleached Buntsandstein deposits from CO <sub>2</sub> accumulation sites in the Thuringian Basin, a southern extension of the CEBS .....	226
D. PUDLO, R. GAUPP, G. NOVER	
Changes of coasts and basins and some ecological problems of the Curonian lagoon area from the point of view of the Eastern Baltic development. ....	227
O. PUSTELNIKOVAS	
Living components of the Szczecin Lagoon sediment: effects of recent processes .....	228
T. RADZIEJEWSKA, B. WAWRZYNIAK-WYDROWSKA	
Hydraulic tests of geothermal useable aquifers in the Northeast German Basin.....	229
K. RAUPPACH	
New Map of Salt Structures in Northern Germany (1 : 500 000) .....	230
K. REINHOLD, P. KRULL, G. MERZBACH, H. WIRTH	
Hydrocarbon Potential of the Baltic Sea Region.....	231
H. REMPEL	



Subsidence and temperature evolution of the Mid-Polish Trough in NW Poland – new results based on maturity modelling supplemented by apatite fission-track dating.....	232
M. RESAK, U.A. GLASMACHER, M. NARKIEWICZ, R. LITKE	
Protection and use of Geosites in Thailand: examples from the Khorat Plateau (Isan, northeastern Thailand) .....	233
H.-G. RÖHLING, S. KHOSITANONT	
Geotope Conservation in Germany.....	235
H.-G. RÖHLING, E.-R. LOOK, M. SCHMIDT-THOMÉ	
The global Permian carboniferous climate development and its implications for the Southern Permian Basin.....	237
M. ROSCHER, U. BERNER, J. SCHNEIDER, U. KRONER	
Late Holocene climate change in Eastern Finland recorded by the annually laminated lake sediments .....	238
T. SAARINEN, E. HALTI-HOVI	
Structural Inversion in half graben and true graben scenario, an insight through analogue modelling .....	239
B. SAHA, C. DIETL	
Inventory of Geotopes and development of geoconservation in Lithuania .....	240
J. SATKUNAS, D. PUPIENIS, J. LAZAUSKIENE	
The cliff-section of Gnitz Peninsula (Usedom Island – SW Baltic Sea) – an example for late Weichselian ice sheet decay .....	241
F. SCHAT, G. HOFFMANN, W. SCHUMACHER	
Evolution of Photosynthesis and Oxygenation of the Earth's Atmosphere .....	242
M. SCHIDLOWSKI	
Decompaction of water saturated unconsolidated near surface sediments .....	243
N. SCHMEDEMANN, M.-TH. SCHAFMEISTER, G. HOFFMANN	
Paleorelief reconstructions in Holocene and future development scenarios of the south-eastern Baltic .....	244
JONAS ŠEČKUS, L. ŽIVILĖ GELUMBAUSKAITĖ	
Sedimentary record of the late Palaeozoic Gondwanan glaciation in the paralic succession of the Lublin Carboniferous Basin (E Poland).....	245
S. SKOMPSKI	
Geodynamic research within the Czech portion of the Sudetic Marginal Fault zone.....	246
P. ŠTĚPANČÍKOVÁ, J. STEMBERK, J. HOK	
Mesozoic basins development on the southwestern edge of the East European Craton (Poland, Ukraine, Moldavia, Romania) .....	247
J. SWIDROWSKA, M. HAKENBERG, B. POLUHTOVIČ, A. SEGHEDI, I. VIŠŇÁKOV	
Coastal erosion effects scenarios near Trzęsacz village in next 100 years with use of geoinformatics.....	248
I. SZAKOWSKI, R. BENEDYCZAK, K. FURMANCZYK	
Paleogeography and stratigraphy of the Middle Triassic in Central Europe.....	250
J. SZULC	
GIS applications and 3D modeling in palaeosurface reconstruction based on a sedimentary record and a sea level evolution. ....	251
P. TEREFEENKO	
Results of geomorphological mapping and landslide susceptibility modelling of Pleistocene sediments along the coast of Jasmund/Rügen .....	252
C. THIEL, A. GÜNTHER, K. SCHÜTZE, C. LANGE, E. BIBUS	
Fractured clasts in neotectonics: Methodological approach.....	253
A.K. TOKARSKI, A. ŚWIERCZEWSKA	

Fractured clasts and neotectonics of the Outer Carpathians: A new tool in seismic risk assessment .....	254
A.K. TOKARSKI, W. ZUCHIEWICZ, N.Q. CUONG, A. ŚWIERCZEWSKA	
The zones of large-scale glaciotectonic deformations and deep subglacial tunnel valleys in the area of Lubuskie Upland.....	255
K. URBAŃSKI	
Coastal Peatlands of the Vistula Lagoon as an indicators of water level changes and subsidence processes during the late Holocene .....	256
S. USCINOWICZ, G. MIOTK-SZPIGANOWICZ, J. ZACHOWICZ	
Holocene relative sea-level change and isostatic subsidence of northwest Europe and the southern North Sea: Observational and model results.....	257
A. VINK, H. STEFFEN, L. REINHARDT, G. KAUFMANN	
A Late Pleistocene/Early Holocene river channel on Usedom Island (SW Baltic Sea coast, Germany) .....	259
M. WAHLE, F.SCHART, G. HOFFMANN	
The principles of establishing Carboniferous depositional sequences and their facies development in the Lublin Basin (SE Poland), and their correlation with the sedimentary succession of NW Europe.....	260
M.I. WAKSMUNDZKA	
Sediment-hosted ore bodies in Triassic red-beds, Cheshire, England: an accessible analogue for hydrocarbon accumulations .....	261
G. WARRINGTON	
Chronology of contemporaneous early post-Variscan magmatic and sedimentary processes in south-west England.....	262
G. WARRINGTON, R.C. SCRIVENER	
Global Devonian, Carboniferous and Permian correlations: successions in Great Britain .....	263
G. WARRINGTON, W.J. BARCLAY, B.E. LEVERIDGE, C.N. WATERS	
Groundwater residence times in Quaternary aquifers in Brandenburg, Germany, evaluated by using environmental (H, O, H, <sup>1</sup> C) and light noble gase isotopes (He, He, <sup>0</sup> Ne).....	265
S.M. WEISE, J. SÜLTENFUSS, F. BEDNORZ, D. BROSE, K. KNÖLLER, K. OSENBRÜCK	
Reserves, Resources, Geopotential, three terms so often misunderstood.....	266
F.-W. WELLMER	
Maps of shallow geothermal potential on a scale of 1:50,000 for the Free State of Saxony – methodological investigations .....	268
D. WENZEL, M. HÜBSCHMANN	
Seismic structure of the crust and upper mantle in the TESZ – present knowledge and questions (PASSEQ 2006-2008).....	269
PASSEQ WORKING GROUP (REPORTER: M. WILDE-PIÓRKO)	
EU GeoCapacity – Towards a Europe-wide GIS of CO <sub>2</sub> Emittants and Storage Sites.....	270
B. WILLSCHER, F. MAY, R. TARKOWSKI, B. ULIASZ-MISIAK, A. WÓJCICKI	
Geoheritage under threat – old and new problems in a changing Europe .....	273
W.A.P. WIMBLETON	
Tectonic spatial database for the Polish segment of the Outer Carpathians: A perspective for more integrated geodynamic model .....	274
W. WŁODARSKI, M. RAUCH-WŁODARSK	
Geothermal resources in the Molasse basin: Unterhaching geothermal well doublet; Bavaria (Germany) .....	275
M. WOLFGAMM, J. BARTELS, F. HOFFMANN, G. LENZ, P. SEIBT, H.-J. UNGER	
Tectonic implications of Pleistocene marine terraces and coral reefs along the northwestern coast of Hainan Island, China .....	276
YAO YAN-TAO, ZHAN WEN-HUAN, LIU ZAI-FWNG, ZHAN MEI-ZHEN	

Geochemistry of biotites in Ali Abad-Darreh Zereshk porphyry copper deposits, Yazd, Central Iran.....	277
M. YAZDI	
Heavy metals in the soils of Islam Shahr urban area, Iran .....	279
M. YAZDI, N. BEHZAD	
Hydrocarbon potential, migration and entrapment in the Baltic Sedimentary Basin .....	280
O. ZDANAVICIUTE, J. LAZAUSKIENE	
Recent sedimentation processes in the coastal zone of Curonian Spit (Kaliningrad Region).....	282
V.A. ZHAMOIDA, D.V. RYABCHUK, YU. P. KROPATCHEV, O.V. PETROV, V.L. BOLDYREV, V.V. SIVKOV	
Characteristics of fine-grained sediment transport related to an estuarine turbidity maximum: a model study .....	283
WENYAN ZHANG, CHAOYU WU	
Active faulting in Poland .....	284
W. ZUCHIEWICZ, J. BADURA, M. JAROSIŃSKI	