

Contents

Acknowledgements	vii
ARCHER, S. G., ALSOP, G. I., HARTLEY, A. J., GRANT, N. T. & HODGKINSON, R. Salt tectonics, sediments and prospectivity: an introduction	1
Halokinetic sequence stratigraphy	
GILES, K. A. & ROWAN, M. G. Concepts in halokinetic-sequence deformation and stratigraphy	7
ROWAN, M. G., LAWTON, T. F. & GILES, K. A. Anatomy of an exposed vertical salt weld and flanking strata, La Popa Basin, Mexico	33
ANDRIE, J. R., GILES, K. A., LAWTON, T. F. & ROWAN, M. G. Halokinetic-sequence stratigraphy, fluvial sedimentology and structural geometry of the Eocene Carroza Formation along La Popa salt weld, La Popa Basin, Mexico	59
KERNEN, R. A., GILES, K. A., ROWAN, M. G., LAWTON, T. F. & HEARON, T. E. Depositional and halokinetic-sequence stratigraphy of the Neoproterozoic Wonoka Formation adjacent to Patawarta allochthonous salt sheet, Central Flinders Ranges, South Australia	81
SMITH, A. P., FISCHER, M. P. & EVANS, M. A. Fracture-controlled palaeohydrology of a secondary salt weld, La Popa Basin, NE Mexico	107
Salt in passive margin settings	
MOHRIAK, W. U., SZATMARI, P. & ANJOS, S. Salt: geology and tectonics of selected Brazilian basins in their global context	131
DAVISON, I., ANDERSON, L. & NUTTALL, P. Salt deposition, loading and gravity drainage in the Campos and Santos salt basins	159
GUERRA, M. C. M. & UNDERHILL, J. R. Role of halokinesis in controlling structural styles and sediment dispersal in the Santos Basin, offshore Brazil	175
QUIRK, D. G., SCHØDT, N., LASSEN, B., INGS, S. J., HSU, D., HIRSCH, K. K. & VON NICOLAI, C. Salt tectonics on passive margins: examples from Santos, Campos and Kwanza basins	207
QUIRK, D. G. & PILCHER, R. S. Flip-flop salt tectonics	245
FORT, X. & BRUN, J.-P. Kinematics of regional salt flow in the northern Gulf of Mexico	265
KANE, I. A., MCGEE, D. T. & JOBE, Z. R. Halokinetic effects on submarine channel equilibrium profiles and implications for facies architecture: conceptual model illustrated with a case study from Magnolia Field, Gulf of Mexico	289
ALBERTZ, M. & INGS, S. J. Some consequences of mechanical stratification in basin-scale numerical models of passive-margin salt tectonics	303
ADAM, J. & KREZSEK, C. Basin-scale salt tectonic processes of the Laurentian Basin, Eastern Canada: insights from integrated regional 2D seismic interpretation and 4D physical experiments	331
FERRER, O., JACKSON, M. P. A., ROCA, E. & RUBINAT, M. Evolution of salt structures during extension and inversion of the Offshore Parentis Basin (Eastern Bay of Biscay)	361

Central European salt basins

KRZYWIEC, P. Mesozoic and Cenozoic evolution of salt structures within the Polish basin: An overview 381

BURLIGA, S., KOYI, H. A. & CHEMIA, Z. Analogue and numerical modelling of salt supply to a diapiric structure rising above an active basement fault 395

MAYSTRENKO, Y. P., BAYER, U. & SCHECK-WENDEROTH, M. Regional-scale structural role of Permian salt within the Central European Basin System 409

BROWN, J., BOWYER, M. & ZOLOTARENKO, V. Wedges and buffers: Some new structural observations from the Dnieper–Donets Basin, onshore Ukraine 431

Deformation within and adjacent to salt

CARTWRIGHT, J., JACKSON, M., DOOLEY, T. & HIGGINS, S. Strain partitioning in gravity-driven shortening of a thick, multilayered evaporite sequence 449

FIDUK, J. C. & ROWAN, M. G. Analysis of folding and deformation within layered evaporites in Blocks BM-S-8 & -9, Santos Basin, Brazil 471

STROZYK, F., VAN GENT, H., URAI, J. L. & KUKLA, P. A. 3D seismic study of complex intra-salt deformation: An example from the Upper Permian Zechstein 3 stringer, western Dutch offshore 489

LI, S., ABE, S., REUNING, L., BECKER, S., URAI, J. L. & KUKLA, P. A. Numerical modelling of the displacement and deformation of embedded rock bodies during salt tectonics: A case study from the South Oman Salt Basin 503

QUINTÀ, A., TAVANI, S. & ROCA, E. Fracture pattern analysis as a tool for constraining the interaction between regional and diapir-related stress fields: Poza de la Sal Diapir (Basque Pyrenees, Spain) 521

TRUDE, J., GRAHAM, R. & PILCHER, R. Salt-related structures on the Bristol Channel coast, Somerset (UK) 533

Salt in contractional settings and salt glaciers

CALLOT, J.-P., TROCMÉ, V., LETOUZEY, J., ALBOUY, E., JAHANI, S. & SHERKATI, S. Pre-existing salt structures and the folding of the Zagros Mountains 545

BAIKPOUR, S. & TALBOT, C. J. The Garmsar salt nappe and seasonal inversions of surrounding faults imaged by SAR interferometry, Northern Iran 563

MASROUHI, A. & KOYI, H. A. Submarine ‘salt glacier’ of Northern Tunisia, a case of Triassic salt mobility in North African Cretaceous passive margin 579

GRAHAM, R., JACKSON, M., PILCHER, R. & KILSDONK, B. Allochthonous salt in the sub-Alpine fold–thrust belt of Haute Provence, France 595

Index 617