

## Contents

PÉRON-PINVIDIC, G., HOPPER, J. R., STOKER, M., GAINA, C., FUNCK, T., ÁRTING, U. E. & DOORNENBAL, J. C. The NE Atlantic region: a reappraisal of crustal structure, tectonostratigraphy and magmatic evolution – an introduction to the NAG-TEC project	1
<b>Stratigraphy</b>	
STOKER, M. S., STEWART, M. A., SHANNON, P. M., BJERAGER, M., NIELSEN, T., BLISCHKE, A., HJELSTUEN, B. O., GAINA, C., McDERMOTT, K. & ÓLAVSDÓTTIR, J. An overview of the Upper Palaeozoic–Mesozoic stratigraphy of the NE Atlantic region	11
<b>Geochronology and volcanism</b>	
WILKINSON, C. M., GANERØD, M., HENDRIKS, B. W. H. & EIDE, E. A. Compilation and appraisal of geochronological data from the North Atlantic Igneous Province (NAIP)	69
Á HORNÍ, J., HOPPER, J. R., BLISCHKE, A., GEISLER, W. H., STEWART, M., McDERMOTT, K., JUDGE, M., ERLENDSSON, Ö & ÁRTING, U. Regional distribution of volcanism within the North Atlantic Igneous Province	105
HJARTARSON, Á, ERLENDSSON, Ö & BLISCHKE, A. The Greenland–Iceland–Faroe Ridge Complex	127
GEISLER, W. H., GAINA, C., HOPPER, J. R., FUNCK, T., BLISCHKE, A., ÁRTING, U., HORNÍ, J. Á, PÉRON-PINVIDIC, G. & ABDELMALAK, M. M. Seismic volcanostratigraphy of the NE Greenland continental margin	149
<b>Crustal structure</b>	
FUNCK, T., ERLENDSSON, Ö, GEISLER, W. H., GRADMANN, S., KIMBELL, G. S., McDERMOTT, K. & PETERSEN, U. K. A review of the NE Atlantic conjugate margins based on seismic refraction data	171
FUNCK, T., GEISLER, W. H., KIMBELL, G. S., GRADMANN, S., ERLENDSSON, Ö, McDERMOTT, K. & PETERSEN, U. K. Moho and basement depth in the NE Atlantic Ocean based on seismic refraction data and receiver functions	207
HAASE, C., EBBING, J. & FUNCK, T. A 3D regional crustal model of the NE Atlantic based on seismic and gravity data	233
<b>Focused studies</b>	
KIMBELL, G. S., STEWART, M. A., GRADMANN, S., SHANNON, P. M., FUNCK, T., HAASE, C., STOKER, M. S. & HOPPER, J. R. Controls on the location of compressional deformation on the NW European margin	249
GRADMANN, S., HAASE, C. & EBBING, J. Isostasy as a tool to validate interpretations of regional geophysical datasets – application to the mid-Norwegian continental margin	279
BLISCHKE, A., GAINA, C., HOPPER, J. R., PÉRON-PINVIDIC, G., BRANDSDÓTTIR, B., GUARNIERI, P., ERLENDSSON, Ö & GUNNARSSON, K. The Jan Mayen microcontinent: an update of its architecture, structural development and role during the transition from the Ægir Ridge to the mid-oceanic Kolbeinsey Ridge	299

ÓLAVSDÓTTIR, J., EIDESGAARD, Ó. R. & STOKER, M. S. The stratigraphy and structure of the Faroese continental margin	339
PETERSEN, U. K. & FUNCK, T. Review of velocity models in the Faroe–Shetland Channel	357
GERLINGS, J., HOPPER, J. R., FYHN, M. B. W. & FRANSEN, N. Mesozoic and older rift basins on the SE Greenland Shelf offshore Ammassalik	375
<b>The oceanic domain and regional kinematics</b>	
GAINA, C., NASUTI, A., KIMBELL, G. S. & BLISCHKE, A. Break-up and seafloor spreading domains in the NE Atlantic	393
GAINA, C., BLISCHKE, A., GEISSLER, W. H., KIMBELL, G. S. & ERLENDSSON, Ö. Seamounts and oceanic igneous features in the NE Atlantic: a link between plate motions and mantle dynamics	419
<b>The oil perspective</b>	
VIS, G.-J. Geology and seepage in the NE Atlantic region	443
Index	457