

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
Stratigraphy	
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
Geochronology and volcanism	
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., ARTING, U., HORNÍ, J. Á, PÉRON-PINVIDIC, G. & ABDELMALAK, M. M. Seismic volcanostratigraphy of the NE Greenland continental margin	149
Crustal structure	
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
Focused studies	
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
The oceanic domain and regional kinematics	
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
The oil perspective	
VIS, G.-J. Geology and seepage in the NE Atlantic region	443
Index	457