

Contents

NØTTVEDT, A. Integrated Basin Studies – Dynamics of the Norwegian Margin: an introduction	1
Intra-plate rifting and basin formation	
CHRISTIANSSON, P., FALEIDE, J. I. & BERGE, A. M. Crustal structure in the northern North Sea: an integrated geophysical study	15
ODINSEN, T., CHRISTIANSSON, P., GABRIELSEN, R. H., FALEIDE, J. I. & BERGE, A. M. The geometries and deep structure of the northern North Sea rift system	41
TER VOORDE, M., FÆRSETH, R. B., GABRIELSEN, R. H. & CLOETHING, S. A. P. L. Repeated lithosphere extension in the northern Viking Graben: a coupled or decoupled rheology?	59
ODINSEN, T., REEMST, P., VAN DER BEEK, P., FALEIDE, J. I. & GABRIELSEN, R. H. Permo-Triassic and Jurassic extension in the northern North Sea: results from tectonostratigraphic forward modelling	83
FOSSEN, H., ODINSEN, T., FÆRSETH, R. B. & GABRIELSEN, R. H. Detachments and low-angle faults in the northern North Sea rift system	105
Basin filling	
RAVNÅS, R., NØTTVEDT, A., STEEL, R. J. & WINDELSTAD, J. Syn-rift sedimentary architectures in the northern North Sea	133
NØTTVEDT, A., BERGE, A. M., DAWERS, N. H., FÆRSETH, R. B., HÄGER, K.-O., MANGERUD, G. & PUIGDEFABREGAS, C. Syn-rift evolution and play potential in the Snorre-H area, northern North Sea	179
JORDT, H., THYBERG, B. I. & NØTTVEDT, A. Cenozoic evolution of the central and northern North Sea with focus on differential vertical movements of the basin floor and surrounding clastic source areas	219
THYBERG, B., JORDT, H., BJØRLYKKE, K. & FALEIDE, J. I. Relationships between sequence stratigraphy, mineralogy and geochemistry in Cenozoic sediments of the northern North Sea	245
KYRKJEBØ, R., HAMBORG, M., FALEIDE, J. I., JORDT, H. & CHRISTIANSSON, P. Cenozoic tectonic subsidence from 2D depositional simulations of a regional transect in the northern North Sea basin	273
Conjugate volcanic margins	
SKOGSEID, J., PLANKE, S., FALEIDE, J. I., PEDERSEN, T., ELDHOLM, O. & NEVERDAL, F. NE Atlantic continental rifting and volcanic margin formation	295
BREKKE, H. The tectonic evolution of the Norwegian Sea continental margin, with emphasis on the Vøring and Møre basins	327
MOGENSEN, T. E., NYBY, R., KARPUSZ, R. & HAREMO, P. Late Cretaceous and Tertiary structural evolution of the northeastern part of the Vøring Basin, Norwegian Sea	379
SUNDEVOR, E., ELDHOLM, O., GLADCZENKO, T. P. & PLANKE, S. Norwegian–Greenland Sea thermal field	397
ELDHOLM, O., GLADCZENKO, J., SKOGSEID, J. & PLANKE, S. Atlantic volcanic Margins: a comparative study	411