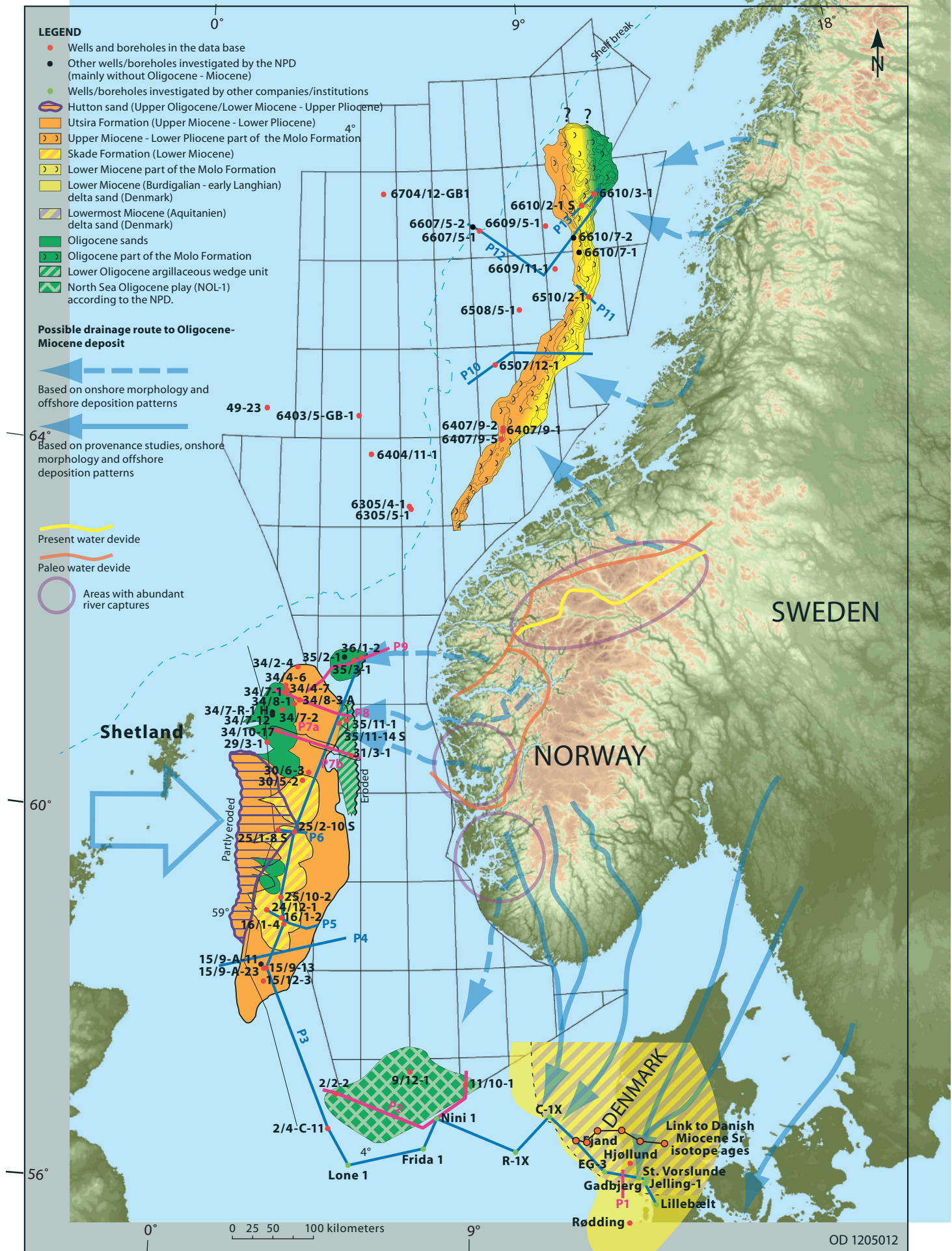


Oligocene to Pliocene well and borehole data base and Oligocene to Lower Pliocene sandy deposits

(Please note that well, borehole and profile numbers are linked to descriptions and figures)



Map 1: Oligocene to Pliocene well and borehole data base, seismic profiles and Oligocene to Lower Pliocene sandy deposits in the North Sea, Norwegian Sea and on the Norwegian Sea continental shelf. The extent of the Oligocene sands and wedge unit and the Utsira and Skade formations is according to Rundberg & Eidvin (2005). The extent of the Molo Formation is according to Bullimore et al. (2005). The extent of the North Sea Oligocene play (NOL-1) is according to the Norwegian Petroleum Directorate web page (www.sodir.no). Provenance study is after Olivarius (2009) and topographic map is after Olesen et al. (2010). The extent of the Hutton sand (Oligocene-Upper Pliocene, informal) is modified after Gregersen & Johannessen (2007). In the British sector, the Lower Miocene part of the Hutton sand probably corresponds to the Skade Formation in the Norwegian sector and the Upper Miocene-Lower Pliocene part of the Hutton sand probably corresponds to the Utsira Formation in the Norwegian sector.

Bullimore, S., Henriksen, S., Liestøl, F. M. & Helland-Hansen, W., 2005: Clinform stacking patterns, shelf-edge trajectories and facies associations in Tertiary coastal deltas, offshore Norway: Implications for the prediction of lithology in prograding systems. *Norwegian Journal of Geology* 85, 169-187.

Gregersen, U. & Johannessen, P. N., 2007: Distribution of the Neogene Utsira Sand and Hutton Sand, and the succeeding deposits in the Viking Graben area, North Sea. *Marine and Petroleum Geology* 24, 591-606.

Olesen, O., Gellin, J., Gernigon, L., Kihle, O., Koziel, J., Lauritsen, T., Mogaard, J. O., Myklebust, R., Skilbrei, J. R. & Usov, S., 2010: Magnetic anomaly map, Norway and adjacent areas, scale 1:3 millions. Geological Survey of Norway.

Olivarius, M., 2009: Provenance and facies of Miocene sand succession in western Denmark based on bulk geochemistry, heavy minerals and zircon dating. Master's thesis. Department of Geography and Geology, University of Copenhagen.

Rundberg, Y. & Eidvin, T., 2005: Controls on depositional history and architecture of the Oligocene-Miocene succession, northern North Sea Basin. In B.T.G. Wandaas et al. (eds.): *Onshore-Offshore Relationships on the North Atlantic Margin*. NPF Special Publication 12, 207-239.