## Updated Jurassic sequence stratigraphic understanding for the North Sea Jurassic and cross border exploration implications between Norway and the UK

Philip Copestake, Merlin Energy Resources Ltd.

The identification of regional trends in the North Sea Jurassic has been hampered by the application of different lithostratigraphic schemes between the Norwegian, UK and Danish offshore sectors. However, the development of an updated, recently published regional sequence stratigraphic understanding has led to the clarification of similarities and contrasts across the region.

It is evident that in several areas the stratigraphy in the UK sector mirrors that on the Norwegian side of the North Sea Basin, and vice versa. Several such instances, from the Upper Jurassic, will be presented, including:-

- correlation of Oxfordian to Tithonian shallow and deep marine sandstones (J46 J72 sequences) in the Norwegian Central Graben and Cod-Ula-Gyda Terrace with equivalent sandstones in the UK sector
- comparison of Kimmeridgian Tithonian reservoir sandstones (J62-J73 sequences) in the Utsira High area of Norway with equivalent sandstones in the UK sector.
- the development of deep marine Kimmeridgian Tithonian reservoir sandstones (J54 J72 sequences) along the basin margin in the UK sector and the potential for analogues in Norway.

The potential cross border exploration implications arising from these comparisons will be discussed.