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Early Jurassic selachians from the Hasle Formation on Bornholm, Denmark

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A selachian fauna from the early Pliensbachian (*Uptonia jamesoni* to *Prodactylioceras davoei* zones) is recorded from the Hasle Formation on the island of Bornholm. Three hybodont sharks, *Hybodus reticulatus*, *H. delabechei* and *Lissodus hasleensis* sp. n., and three neoselachians, *Synechodus occultidens*, *Paraorthacodus* sp. and *Agaleus dorsetensis*, are recognized in the fauna. The enameloid ultrastructure of teeth of *A. dorsetensis* was examined and found to be comprised of at least two layers, confirming a neoselachian affinity, based on the overall tooth morphology. The palaeogeographical and stratigraphical records of the previously described species are extended. Pliensbachian selachian faunas are not well investigated and the described species in the Hasle fauna are all known from Sinemurian deposits elsewhere.

Key words: Selachians, hybodonts, neoselachians, palaeobiogeography, palaeoecology, Pliensbachian, Early Jurassic, Bornholm, Denmark.

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