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Stress estimation of offshore platforms

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Structural Integrity and Pipeline Technology

Offshore structures accumulate damage during operation due to the environmental and operational forces, which leads to fatigue failure. The design of offshore structures allows for the fatigue damage by simplifying reality and setting up a designed lifetime. Many offshore platforms in the North Sea are, however, reaching the end of their designed lifetime, but the actual integrity of the structures is unknown. This project aims to estimate the stress history of offshore structures during operation. This will give us a better understanding of the remaining lifetime of the existing structures in the North Sea.

