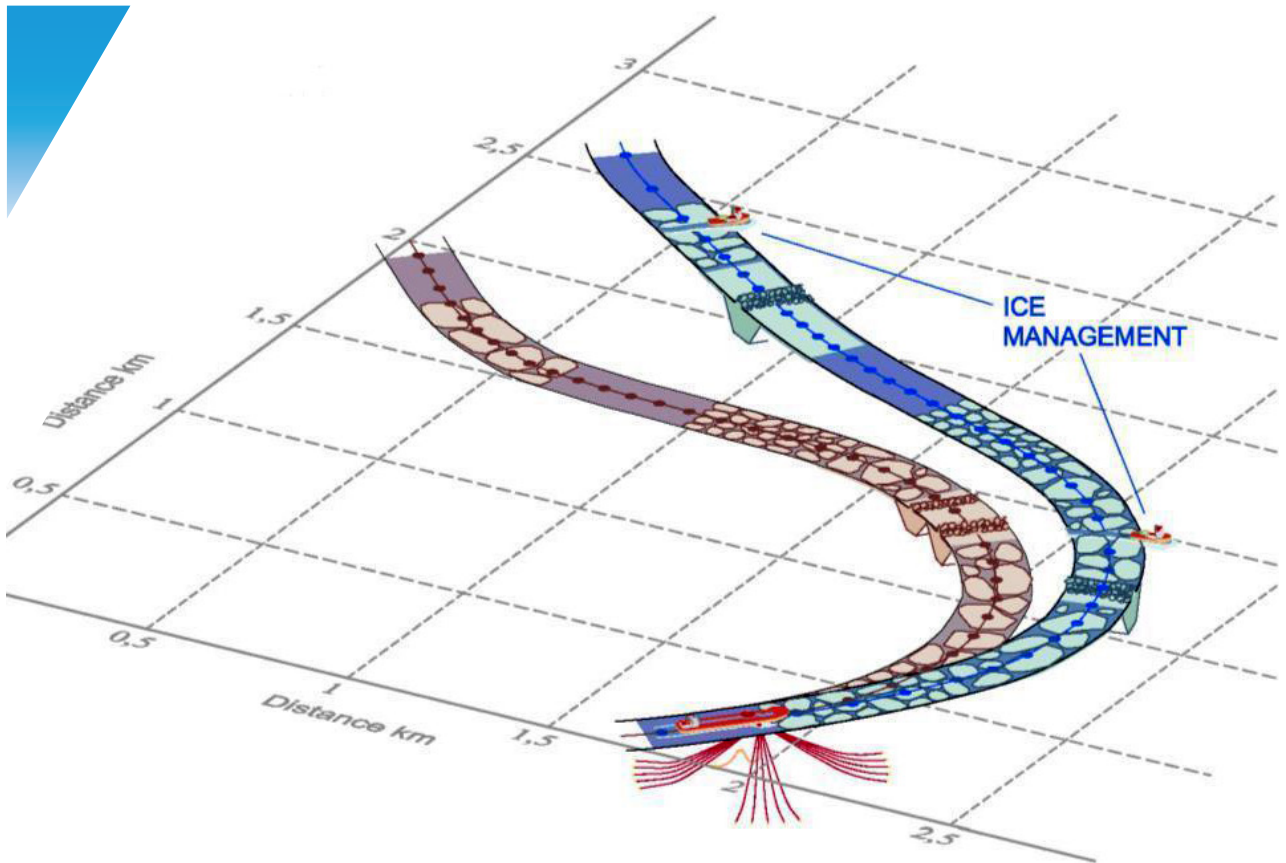




Shtokman FPU

Operability analyses



The Shtokman offshore site is characterized by sea ice and glacial intrusions. The moored Floating Production Unit (FPU) is designed to withstand severe ice interactions but is also able to disconnect to avoid forecasted severe ice threats.

A probabilistic numerical environment was developed in order to simulate thousands of years of operations at the site. This included:

- Simulation of metocean, sea ice intrusions and ice drift dynamics
- Simulation of metocean forecasting
- Simulation of the effect of ice risk management (incl. ice drift forecasts and physical ice management)
- Simulations of response forecast of the moored FPU
- Simulations of downtime due to forecasted ice threats.

The downtime due to sea ice was simulated for various operational configurations and parameters steering the downtime level were identified.

PROJECT

Shtokman FPU –
Operability Analyses

PROJECT TYPE

FEED

LOCATOIN

CLIENT

Shtokman Develop-
ment AG

TIME PERIOD

2008 - 2011

SCOPE OF WORK

text

OUR SERVICES

- text

DISCIPLINES

- text

