



# COLLRISK Software and Analyses

## Shipping and Marine Risk Analysis

### COLLRISK

Anatec's COLLRISK models are used for the quantification of marine risk, both in terms of likelihood of an accident and consequences to personnel, the environment and business / asset.



The following is a selection of the models available within the COLLRISK software suite:

- Powered Ship-to-Structure Collision Risk
- Drifting Ship-to-Structure Collision Risk
- Ship-to-Ship Collision
- Ship-to-Shore Grounding Risk (Drifting and Powered)
- Fire and/ or Explosion Risk
- Fishing Vessel Collision Risk
- Foundering Risk

The models are calibrated for the area of interest using the most up-to-date historical accident data available.

The COLLRISK assessments are mainly performed within a Geographical Information System (GIS), with the relevant shipping and operational data (visibility, wind, wave, tide, etc.) used as inputs to the calculations.

The results from COLLRISK can be analysed and presented either within the GIS or exported to Excel for analysis.

The models were developed based on research carried out by Anatec personnel for the UK Health & Safety Executive (Offshore Safety Division) and Maritime and Coastguard Agency.

They have been used extensively applied throughout the UK and Worldwide to investigate the overall impact of proposed developments, and the optimal means of managing shipping and the associated risks.

COLLRISK is referenced by the International Oil and Gas Producers Association (OGP) in the Risk Assessment Data Directory report for Ship/Installation Collisions under "Best practice collision risk modelling for passing vessels".

Example of the COLLRISK model uses are:

- Consent to Locate
- Ship Collision QRA Studies
- Navigation Risk Assessments
- ERRV / Standby Vessel Sharing Studies
- Infield (Visiting) Vessel Compliance Reviews (following Mumbai High)
- Transportation Risk Studies, e.g, Naturally Occurring Radioactive Material
- Identification of Marine Environmental High Risk Areas (MEHRAs)

**Contact us below for more information.**

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