

## SUMMARY

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With the growing of ship size, particularly container ships, their squat becomes once again an important aspect to take into account for navigation. In the seventies, supertankers over 400 000 tons had motivated researches on this phenomenon. Most of the empirical formulas were established in this period. Those do not always provide a sufficient accuracy. That is why a numerical modelling

system was developed. It relies on a fluid-structure coupling in order to reproduce the physics. A comparison between main empirical formulas, the modelling system and experimental data is done for confined or non confined conditions. It comes out that numerical modelling will probably become a requisite tool for dimensioning of waterways.