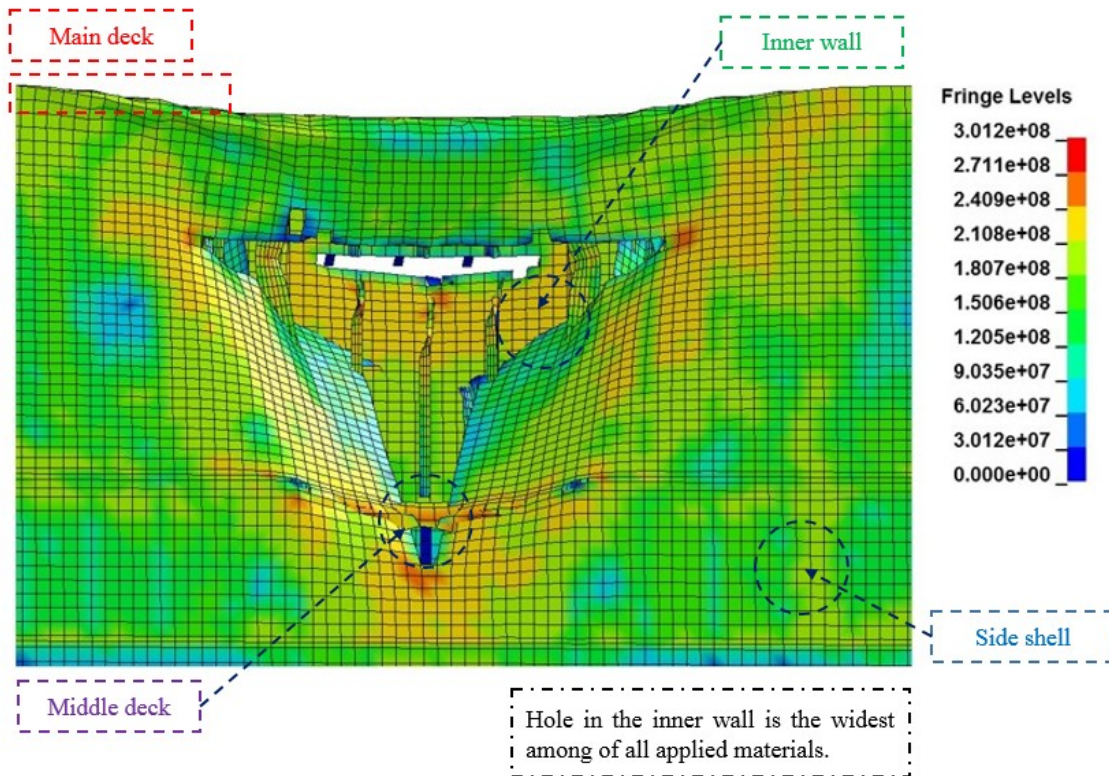


# Appendix A\*



**Figure A-1:** Damage extent with Tresca contour by applied material type 1010.

\* connected to the paper "Rapid prediction of damage on a struck ship accounting for side impact scenario models"

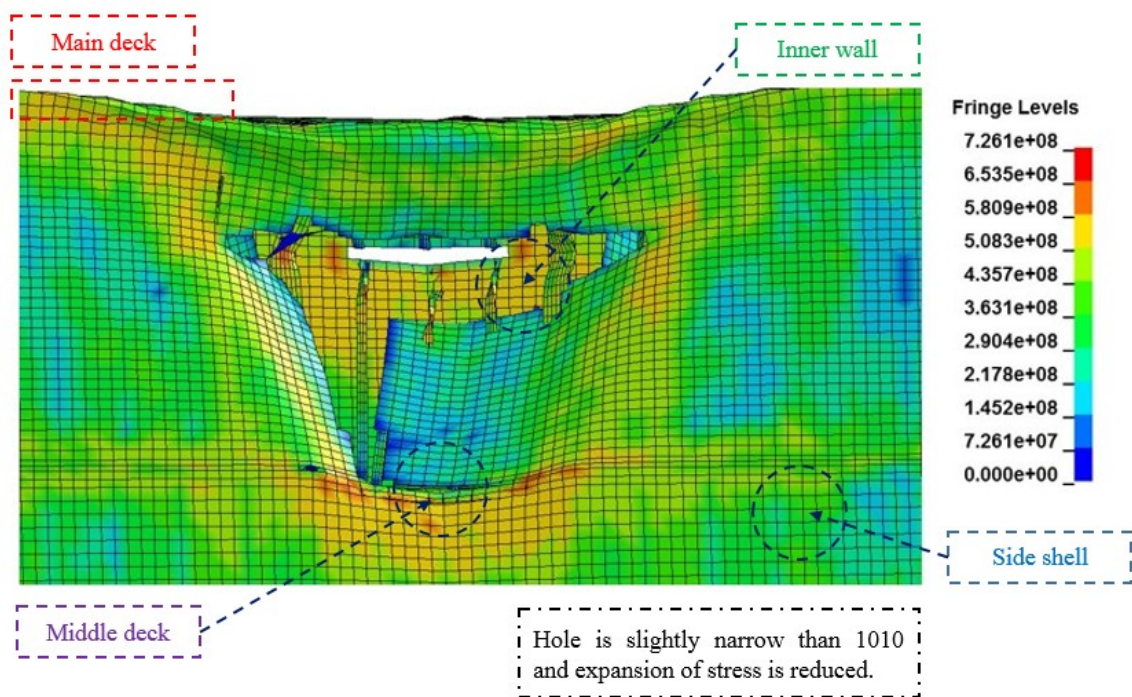


Figure A-2: Damage extent with Tresca contour by applied material type 1040.

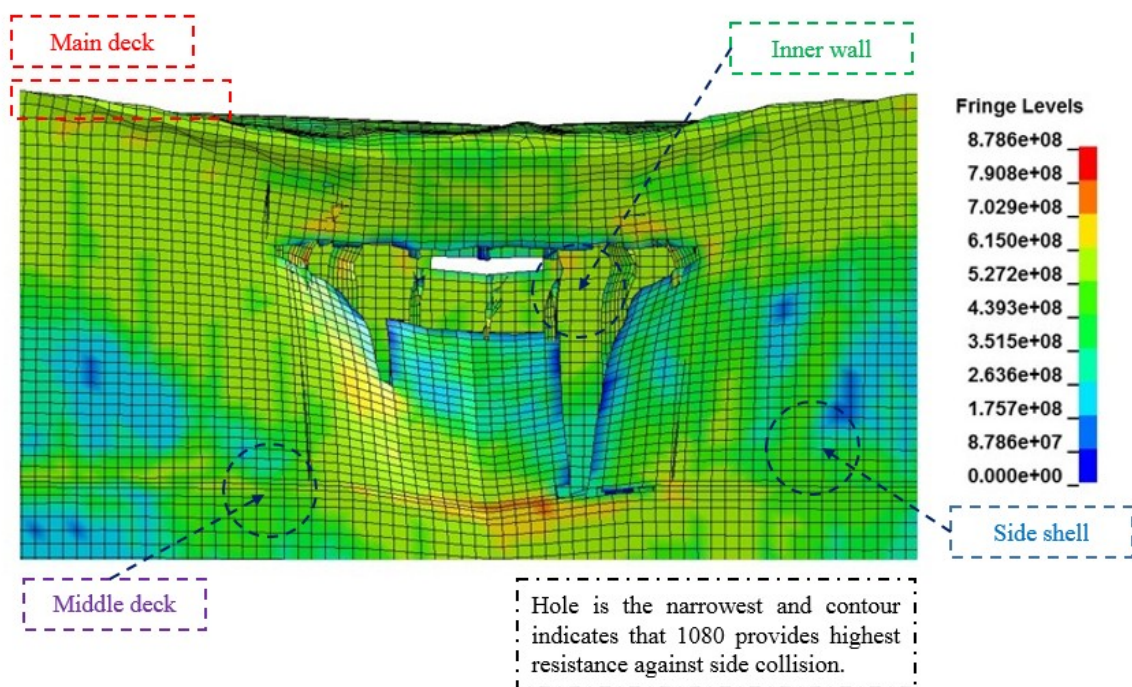


Figure A-3: Damage extent with Tresca contour by applied material type 1080.