

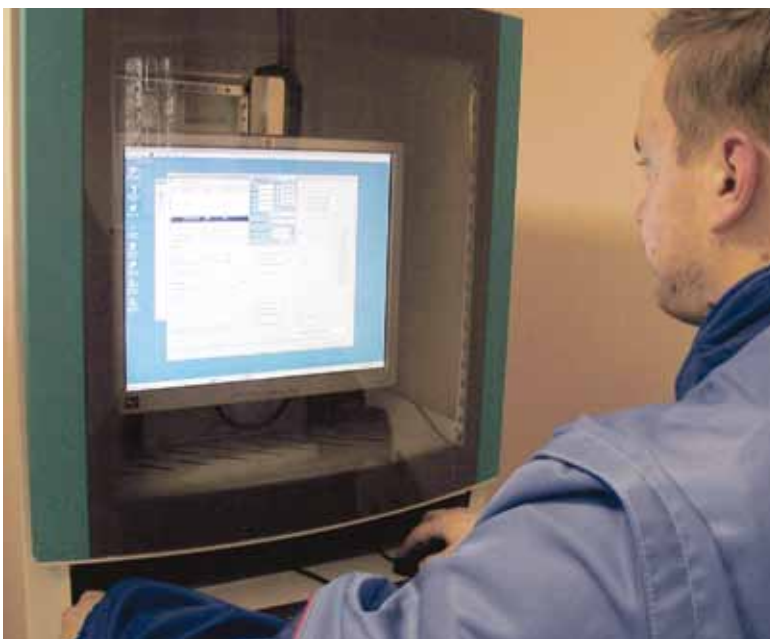
ICE LOAD MONITORING SYSTEM

ICEMON®



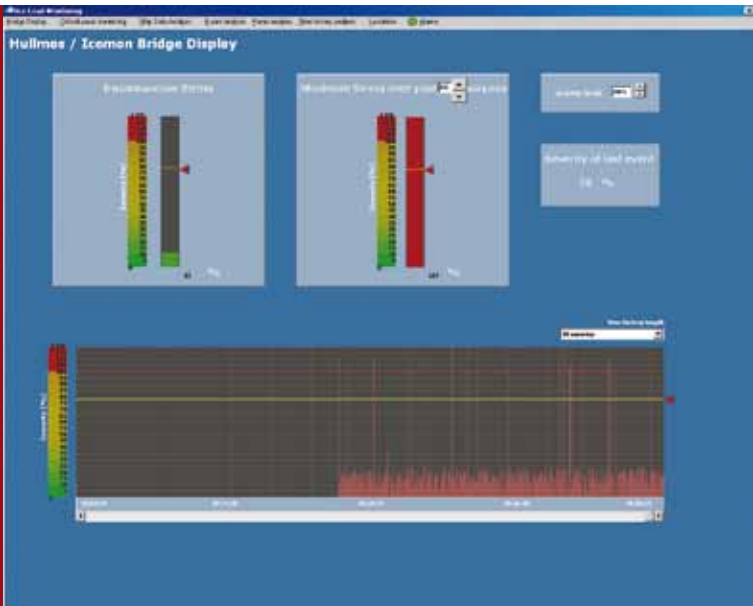
Safe and economic operation of ships in ice requires special expertise in order to proceed smoothly and avoid excessive ice loading.

Safe operation is much enhanced if the operator has knowledge about ice loads acting on the ship hull. ICEMON® system provides ice load level and stress indications in real time, assisting the ship's operators in decision making - load level can be reduced by slowing, changing course or by better ice reconnaissance.



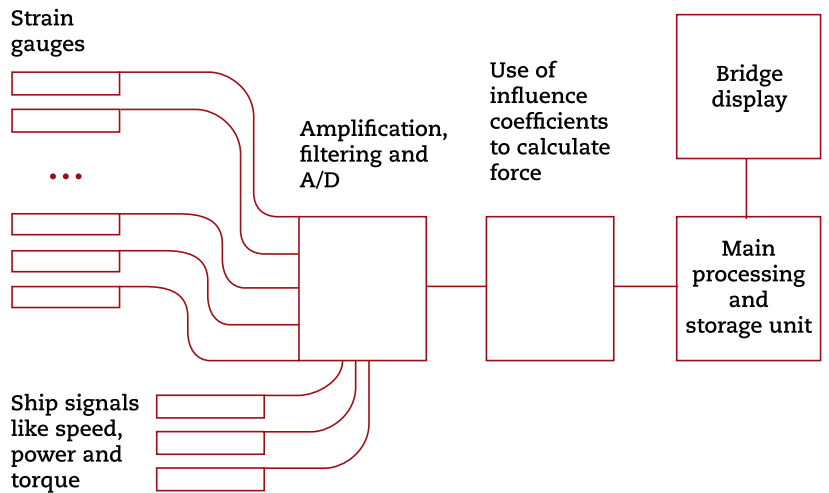
The ICEMON® system utilises the data collected from sensors attached to the shell structure.

The ICEMON® software calculates the ice forces and also processes the stochastic data to obtain the occurrence probabilities of large ice loads. All measured data is stored to allow thorough analysis - for example to develop design guidelines for the company.



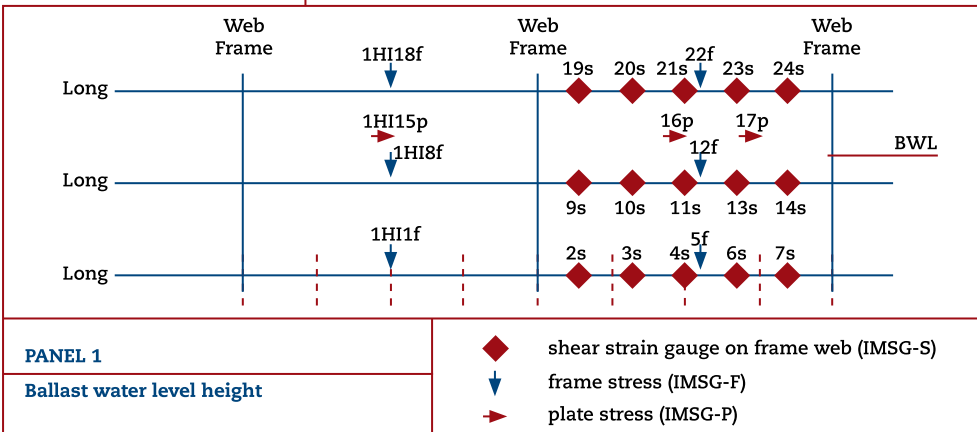
The main display of the system is located on the bridge and it warns if the permissible limits of ice loading is exceeded.

The data acquisition, measurement and display systems are self-adjusting, continuously running and as maintenance free as possible.



ICEMON® system is designed to measure and display ice loads acting on the ship hull and the shell structural response.

The measurement is carried out by strain gauges formed into instrumented panels. The panels are located on the critical areas of the ship bow. Configuration of the ice load measuring system ICEMON® is tailored according to the special needs of each project.



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