

# Guidance for the Fatigue Strength

## Assessment of Ship Structures

### ■ Summary of Major Amendments

| Related Rules/Guidance                                   | Effective date                                              |
|----------------------------------------------------------|-------------------------------------------------------------|
| Pt. 1 Classification and Surveys<br>Pt. 3 Hull Structure | - ships contracted for construction on or after 1 July 2020 |

### ■ Major Amendments

#### ○ Reason for Amendments

1. To specify the evaluation sea area(North Atlantic or Worldwide) and design fatigue life when evaluating fatigue strength.
2. Added to reflect the strength of the base material when evaluating the fatigue strength of the free edge of the base material without welding.

#### ○ Amendments

1. Modified to reflect evaluation sea area and design fatigue life(Annex 3-3 1. (3) and (4)).  
Reflected relevant notations(Guidance Pt. 1 Annex 1-1 1.1).
2. Added material effect by quoting Pt. 13(Annex 3-3 3. (6)).

#### ○ Impact Analysis

- ✓ Structural safety in terms of fatigue strength is increased by allowing further review at design fatigue life that exceeds the fatigue life required by the rule.
- ✓ Scantlings increase may be required following additional design fatigue life reviews.