

Project Overview

Investigate the viability of bulk carrier transhipment operations in the Mid-West region of Western Australia.

- 1. Derive a set of expanded **criteria** against which to assess transhipment **availability**.
- 2. Determine the **frequency** and **magnitude** of tug intervention at the proposed site.
- 3. Inform the **required upgrades** to standard self-unloading bulk carriers to allow efficient long-term operation.
- 4. Execute **9000+** dynamic mooring analysis scenarios to estimated **annual** operational availability.





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Results

- Vessel motion identified as limiting criteria. Used to inform priority process and vessel adjustments.
- Nouvelle boom plot method shown to have an impact on availability equal to that of traditional line and fender force considerations.
- Tugs required for the majority of the years (due to swell typically acting perpendicular to the current at the site).





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