

MEMBER ALERT



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GOOD CATCH UPDATE: *FATIGUE A FACTOR IN TOWING VESSEL GROUNDING*

Your Managers are pleased to present the latest instalment of the Club's *Good Catch* initiative:

- *Fatigue a Factor in Towing Vessel Grounding* in [English](#), [new](#) and [traditional](#) Mandarin.

GOOD CATCH from **The American Club**

Fatigue a Factor In Towing Vessel Grounding

Description

A towing vessel was on a coastal voyage pulling a large deck barge. The vessel had departed port earlier that morning after a busy night loading and securing containers and vehicles on the barge.

The cargo was loaded by the local stevedores, but the Master and Mate were involved in verifying the cargo was properly secured. On a previous voyage, some cargo had been damaged because it had not been adequately secured. In an effort to avoid those problems again, the company had asked the Master to closely monitor the loading and securing of the cargo to ensure it was done correctly. Cargo loading was not completed until 2:00 am and all of the cargo was confirmed to be properly secured by 6:30 am. The towing vessel got underway shortly thereafter.

The Mate took a nap before his watch at noon but still felt tired after the sleep disruption and extra work during the cargo operations. When he got off watch at 4:00 pm, he took a shower, called his wife, and had dinner before going to bed at 8:30 pm. He woke up at 11:00 pm, ate a snack and relieved the Master on watch shortly before 11:45 pm.

The seas were exceptionally calm and there was no other traffic in the area. The towing vessel was on a course consistent with the voyage plan and the Mate was monitoring progress on the vessel's Electronic Chart and Display Information System (ECDIS). He noted that a course change was planned for 1:15 am to avoid a shoal area.

At approximately 1:25 am, the towing vessel ran aground on the shoal. The grounding caused both main engines to shut down.

The Master and crew including the Mate were awakened by the grounding. The Master was on the bridge within 3 minutes and took charge. The crew verified that there was no flooding. The engines were unable to restart either main engine and suspected damage to both propellers and shafts. The Master then notified the company and called the U.S. Coast Guard.

GOOD CATCH Fatigue a Factor In Towing Vessel Grounding July 2022

Description (cont'd)

The company dispatched two other towing vessels. One towed the barge to its destination port while the other towed the damaged towing vessel to the nearest port for a damage survey.

The Mate admitted that he had fallen asleep in his chair on watch. He indicated that a combination of the previous sleep disruption, extra work the night prior, and very calm seas caused his fatigue. A review of the work/rest log on the vessel indicated that the hours were not being recorded daily. They appeared to be recorded once weekly for the entire week. A quick review indicated that the hours did not vary from day-to-day despite a varied work schedule for the crew.

Based on comments from the Mate, he had worked 13.5 hours in the 24-hour period prior to assuming the watch on which he fell asleep. He had also worked just over 29 hours in the 48-hour period prior to assuming that watch. During that same 48-hour period, he had just over 13.5 hours of sleep, but those sleep periods were broken into one 5.5-hour period, a 2-hour period, another 2-hour period and a 4-hour period. There were other short periods when he was not working or on watch, was eating, checking emails, or taking care of personal matters.

The Mate also indicated that he did not set an alarm in the ECDIS to remind him of the planned course change nor did he set up depth contour alarms. He said he was familiar with how to do both, but it had not been their standard practice onboard this vessel.

Actual Damage

Both ducted propellers were heavily damaged. The starboard duct was torn off and the propeller and shaft were bent beyond repair. The port duct was heavily damaged as was the propeller. The towing vessel was out of operation for 16 weeks until a drydock was available, new propellers were purchased, new ducts were fabricated, and 2 new propeller shafts were fitted. The repair cost was in excess of \$950,000.

Potential Damage

The vessel could have been lost had the hull been breached, or had one of the propeller shafts been lost, or had the shaft seal around one or both of the propellers been seriously compromised.

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Prevention

- ★ Except in emergencies, the requirements for adequate rest should never be ignored for the sake of operations.
- ★ The record of hours worked should be honestly filled out and maintained. Reconciling associated with work and rest should be made part of the culture onboard each vessel and part of the vessel's safety program.
- ★ Mariners on watch who are having difficulty staying awake should recognize that the safety of the crew, the vessel and the cargo is at risk. They should either take direct action to maintain their alertness (stand up, move around, call a deckhand to come to the bridge, have a cup of coffee) or call the Master and ask for assistance.
- ★ ECDIS alarms are valuable tools that should be fully used and correctly set.

When you identify a hazard before something goes wrong... **it's a Good Catch.**

When you stop an operation before something bad happens... **it's a Good Catch.**

When the Master recognizes that watchstanders have not had the required rest and adjusts the operational schedule to allow for adequate rest... **that's a Good Catch, too!**

THE AMERICAN CLUB

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As a reminder, all *Good Catch* alerts and animations are posted at the Club's website at:

https://www.american-club.com/page/good_catch

Your Managers recommend that Members take note of this information and be guided accordingly.