The Leeuwin Current is most predominant during May to August when ESE trade winds, increased by the local Coriolis effect, cause the current to strengthen. The current is crucial for the survival of many marine animals, as it brings oxygenated water to deep areas.

The Leeuwin Current forms a barrier of warm water between the New South Wales coastline and the colder waters of the southern Tasman Sea. This barrier is known as the Australian Coastal Water Temperature Barrier (ACWTB) and it plays a significant role in the distribution of marine life along the Australian coastline.

The current is also important for commercial shipping, as it affects the speed of vessels travelling through the area. The current can make navigating the area hazardous, especially for recreational boaters and small craft. It is important to ensure that any vessel has sufficient clearance when navigating through the area, to keep well clear of lobster pot floats and submerged lines.

The current is also important for divers in the future. The WA Maritime Museum provides charts and information on the current, which can assist in navigation, but indicate special features. Refer to WA Maritime Museum for more information.

Changes of chart may be expected. The current is an important feature to be aware of when navigating the area.

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