

Karenia Mikimotoi

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Karenia Mikimotoi Latest News

A massive outbreak of toxic algae due to *karenia mikimotoi* off South Australia, which has devastated hundreds of species of marine life and disrupted local tourism and fishing.

About Karenia Mikimotoi

- It is one of the most common **red-tide dinoflagellates** proliferating in the eastern North Atlantic and around Japan.
- It releases **hemolytic toxins and ichthyo toxins**, causing massive **negative impacts on fishery and marine ecological environment**.
- There have **not been confirmed reports of direct impacts to human** health by *Karenia mikimotoi*, but blooms of this species can cause large-scale mortality events of marine fauna such as shellfish, echinoderms, crustaceans, and fish.
- Anoxic conditions can also occur when *K. mikimotoi* cells die in large numbers and subsequent breakdown by bacteria deplete oxygen in the surrounding waters.

- It is less toxic but more **globally widespread** with blooms reported in Ireland, Norway, **India**, Japan, Korea, Australia, South Africa, Alaska, Texas, and the east coast of the U.S.

Key Features of Karenia Mikimotoi

- It is a **photosynthetic species** with several oval to round yellow-brown chloroplasts, each with a pyrenoid. The large ellipsoidal nucleus is located in the left hypothecal lobe.
- It can **adapt to various light, temperature, salinity**, and nutrient conditions.

Source: DD News

Source: <https://vajiramandravi.com/current-affairs/karenia-mikimotoi/>

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