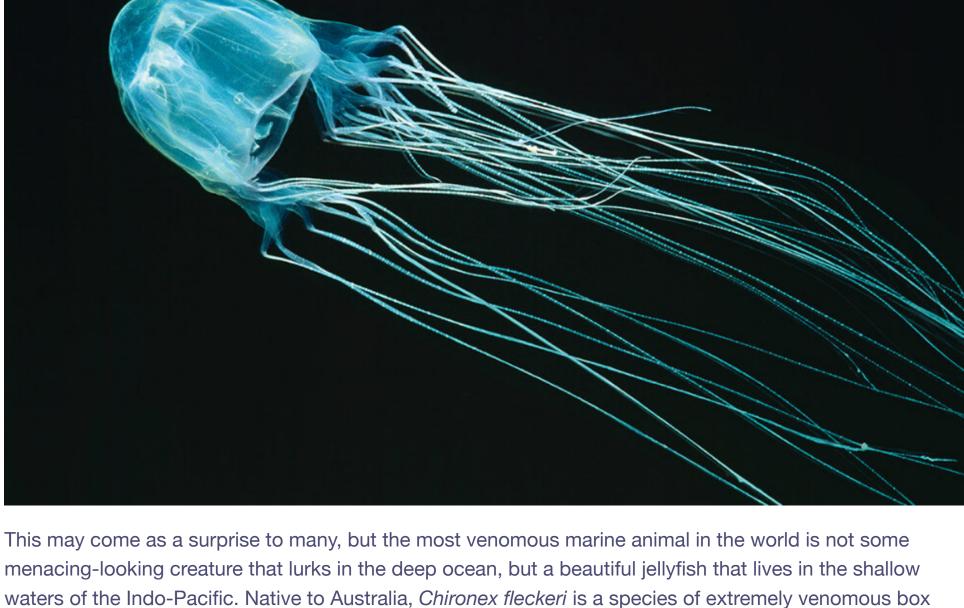


Posted on June 26, 2020 | by John

7 Most Venomous Marine Animals in the World

The word's oceans are filled with creatures of all kinds – some harmless, some very dangerous to humans

and other species. Sharks get a bad rap, but there's plenty of other living being underwater you probably should be scared of more. Looks can be deceiving, indeed. Venomous animals are often alluring creatures you may be tempted to approach or even handle. Let's take a look at some of the most venomous marine animals in the world and what makes them so dangerous. Box Jellyfish (Chironex fleckeri)



The Australian box jellyfish have up to 15 tentacles that can reach up to three meters in length. The tentacles are covered in cnidocytes, specialized cells containing nematocysts loaded with poison. When potential prey or predators stimulate these cnidocytes, water rushes into the nematocysts, exerting high pressure which in turn opens the nematocysts' operculums, releasing the deadly venom. The venom attacks the nerves, blood, and heart of the prey or predator. People and animals stung with

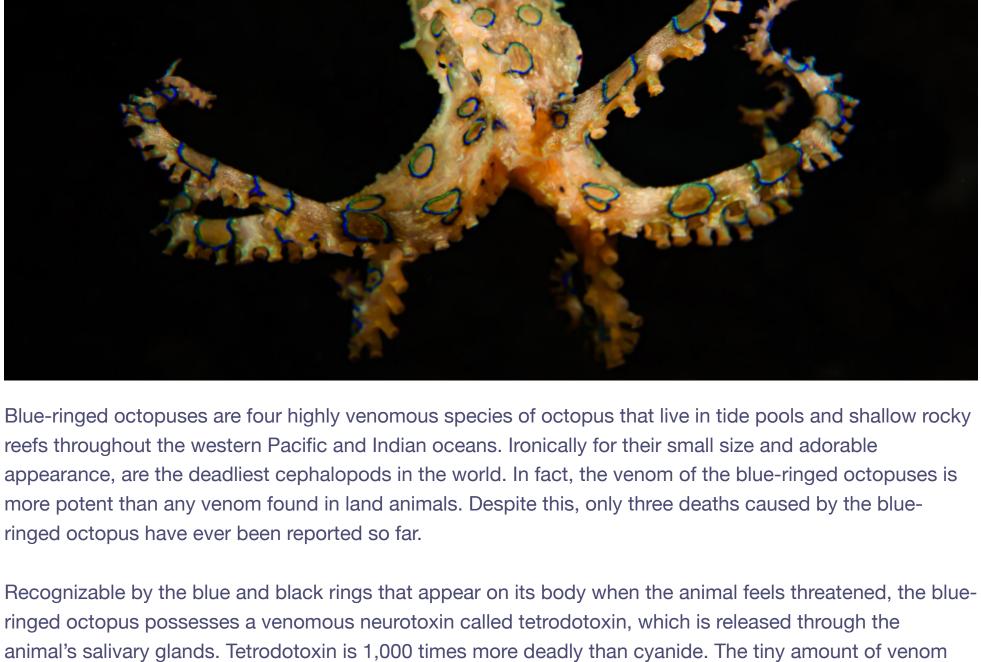
jellyfish found in the coastal waters of northern Australia as well as New Guinea, the Philippines, and

Vietnam. Humans are frequently stung by this species off the coast of Queensland.

Chironex fleckeri's poison may experience intense pain, respiratory distress, paralysis, cardiac arrest, and even death, all within a few minutes after being stung. There have been at least 80 deaths caused by box jellyfish in Australia since 1883, but many injuries and deaths go unreported, so it is not a risk to be taken lightly. Nonetheless, most encounters result in mild envenomation. An intravenous box jellyfish antivenom can be given to patients who exhibit life-threatening envenoming.

Researchers are also working on developing a topical application in spray or cream form to alleviate pain and

stop necrosis and skin scarring. Blue-ringed Octopus (Hapalochlaena)

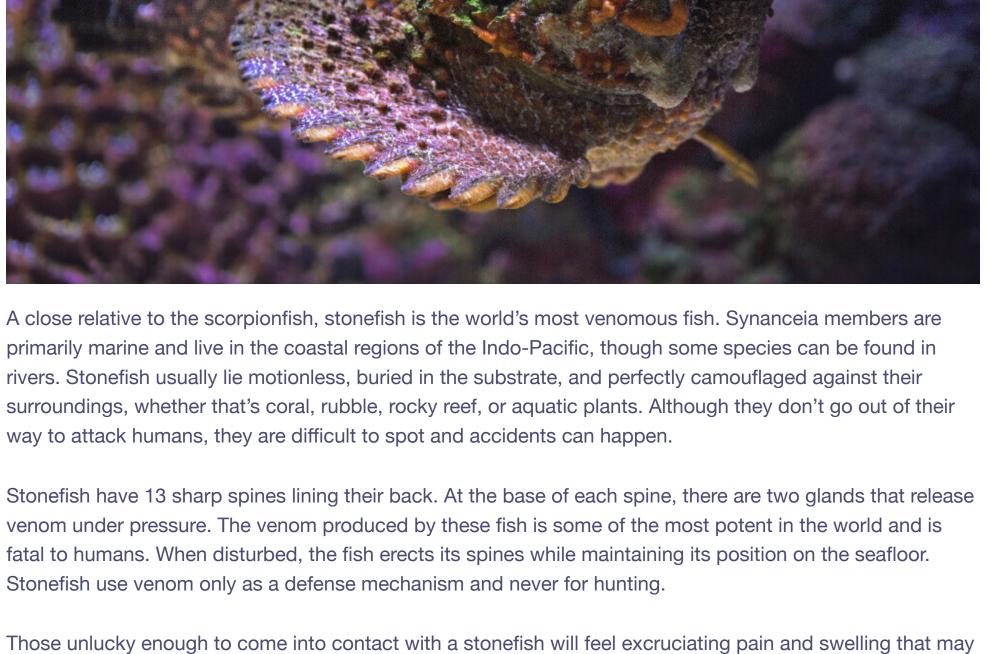


The bite itself is painless and victims may not realize they've been bitten until it is too late. Symptoms of envenomation include nausea, vision loss, loss of motor skills, loss of sense, and respiratory arrest. Unfortunately, there is no known antidote for the bite of the blue-ringed octopus and the only treatment is ongoing heart massage and artificial respiration. It is crucial that first aid procedures are started quickly to ensure the victim's chance of survival.

the little octopus carries can mean certain death for more than 20 people or can leave a human paralyzed for

Stonefish (Synanceia)

up to 24 hours after initial contact.

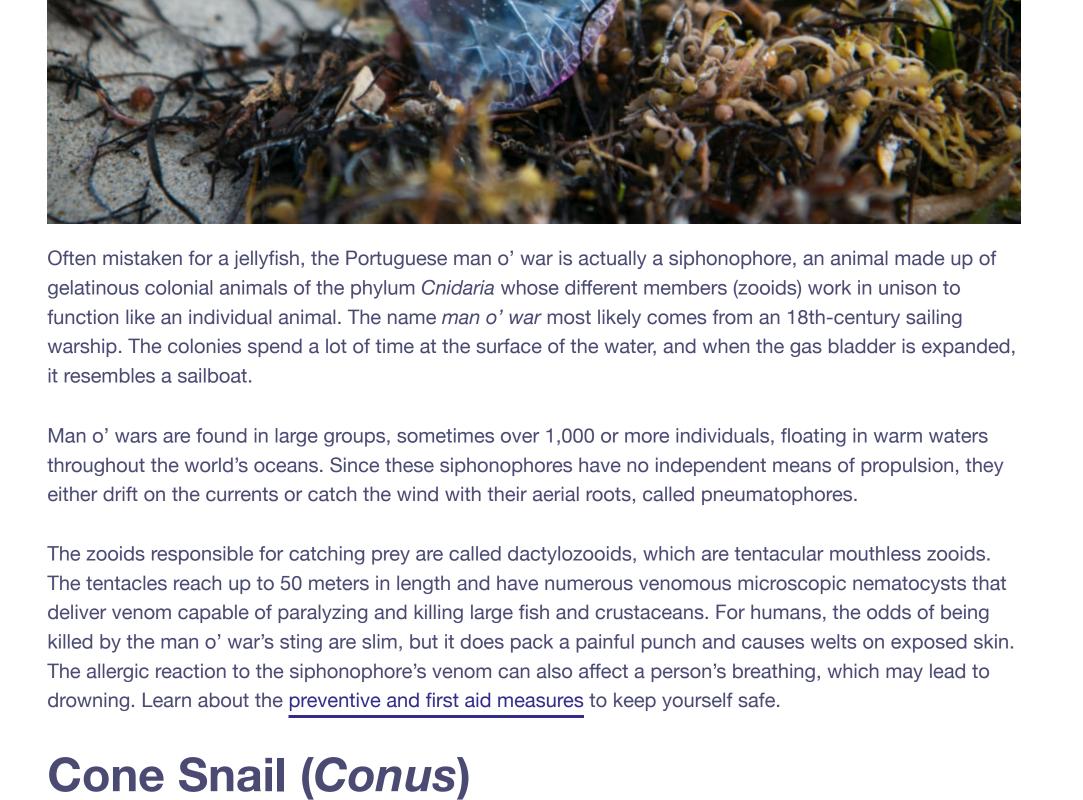


last for many days. Muscular paralysis, breathing difficulties, tissue necrosis, and sometimes heart failure

Portuguese Man o' War (Physalia physalis)

and death can ensue. To prevent the worst from happening, an intravenous stonefish anti-venom was

created in the 1950s. In the event of a sting, the victim should seek immediate medical attention.



The genus Conus consists of over 600 species of cone snails in one big family - the Conidae. These

world and all species within the genus Conus secrete toxins.

gastropod mollusks are found in warm and tropical seas and oceans worldwide, reaching the greatest

diversity in the western Indo-Pacific. Cone snails are some of the most venomous marine animals in the

Cone snails use a venom-filled radula tooth as a harpoon-like structure for predation. Once the nose the

cone snail senses prey nearby, it deploys a long flexible tube called a proboscis from its mouth towards the prey. Cone snail venom is a complex mixture of compounds that cause paralysis through multiple neuromuscular blocking steps. The venoms are mainly peptides that vary between species. Researchers estimate that each animal harbors over 100,000 different bioactive compounds within their venom. The sting of many of the smallest cone snail species may be no worse than that of a bee sting, but in the case of a few of the larger species, it can sometimes have fatal consequences. Symptoms of cone snail envenomation include intense pain, tingling, muscle paralysis, respiratory paralysis, and blurred/doubled vision. According to a 2016 paper, in the last 30 years, members of the genus Conus have claimed the lives of more than 35 people worldwide. The intricate color patterns of cones have made them popular collectible seashells. Unfortunately, not even diving gloves offer enough protection against the animals' sting. Contact should be avoided, even if the shell looks empty because it may still have a living animal inside. There is no anti-venom for cone snails. Victims

should seek urgent hospital-based therapy; intensive care hospitalization may be required.

Flower Urchin (Toxopneustes pileolus)

The flower urchin is a widespread species of sea urchin from the Indo-West Pacific. It inhabits seagrass beds, coral reefs, and rocky or sandy seafloor. *Toxopneustes pileolus* are beautiful creatures, spectacularly colored with very short spines and long petal-shaped pedicellariae, which give rise to their common name flower sea urchins.

As beautiful as flower sea urchins are, as dangerous they can be. As a matter of fact, *Toxopneustes pileolus*

are the most venomous of sea urchins and unlike others, they do not deliver the venom through their spines.

The envenomation mechanism involves the globiferous pedicellariae which are usually expanded into cup-

Sea urchin stings are immediately painful, and the area may become red and swollen. The puncture wounds

poison can be, but some accounts have stated that people have drowned following flower urchin stings. But

on the skin can become infected if not treated immediately. The flower urchin's venom can also cause

nausea, vomiting, weakness, tingling, abdominal pain, fainting, hypotension, and respiratory distress.

Strangely enough, there are very few recent accounts of how toxic or potent the Toxopneustes pileolus'

like shapes. When disturbed, the pedicellariae will immediately snap shut and release venom.

in absence of official reports, we dare not throw any more shade at this beautiful creature.

Dubois' sea snake (Aipysurus duboisii)

Rick Stuart-Smith

www.reeflifesurvey.co

meters. The snake's venom contains strong neurotoxins (postsynaptic neurotoxins) that may cause paralysis and death. Individuals may be bitten under self-defense when the snake is threatened or handled, but this species is reportedly only mildly aggressive. Its fangs are also very tiny (about 1.8 mm long) and may not

penetrate some wetsuits. Nonetheless, its bite can be life-threatening.

duboisii's bite with immediate therapy is usually good.

Dubois' sea snake is not only one of the most venomous marine animals but the most venomous sea snake

Guinea to New Caledonia and the northern, eastern, and western coasts of Australia. The Aipysurus duboisii

in the world and the third most poisonous of all snakes. This deadly creature is found from Papua New

is most often observed in shallow water at depths of only 3-4 meters but can live at depths of up to 80

Coral reef divers have the highest risk for being bitten and in some cases, fang marks may not even be

visible. Even though envenomation is rare, the snake possesses fast-acting neurotoxins that can cause rapid

muscle breakdown and neurological symptoms. In most cases, however, the venom is not known to severely

affect humans. Early administration of antivenom is the mainstay of treatment. The prognosis of Aipysurus

you more aware of the possible dangers that you need to watch out for more. The chances of an unprovoked attack are slim but be sure to keep your hands to yourself as tempting as it may be to touch some of the creatures you see underwater. Keep a safe distance and stay safe!

Hopefully, this list of the most venomous marine animals hasn't killed your eagerness to dive but has made

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