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Under favourable conditions, microscopic algae may multiply rapidly and forming red tides, which could be influenced by various environmental factors such as light intensity, water temperature, salinity, nutrient level and geographic location

# What are red tides / algal blooms?

Red tides or algal blooms are natural phenomena of discolorations of seawater caused by rapid multiplication of microscopic algae in the seawater.

# Occurrence of red tides within Hong Kong waters

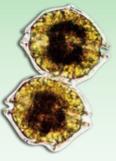
Red tides occur all year round in Hong Kong waters with an average of about 15 to 20 incidents per year.

#### 米氏凱倫藻 Karenia mikimotoi



# How many red tide species are found in Hong Kong?

鏈狀亞歷山大藻 Alexandrium catenella



More than 70 red tide causative species were recorded in Hong Kong and most of them are non-toxic and seldom caused large scale impact. Few of the species are toxic/ suspected toxic (e.g. *Alexandrium, Karenia* and *Chattonella* species etc.) with only a few cases leading to fish kill or seafood contamination.

海洋褐胞藻 Chattonella marina

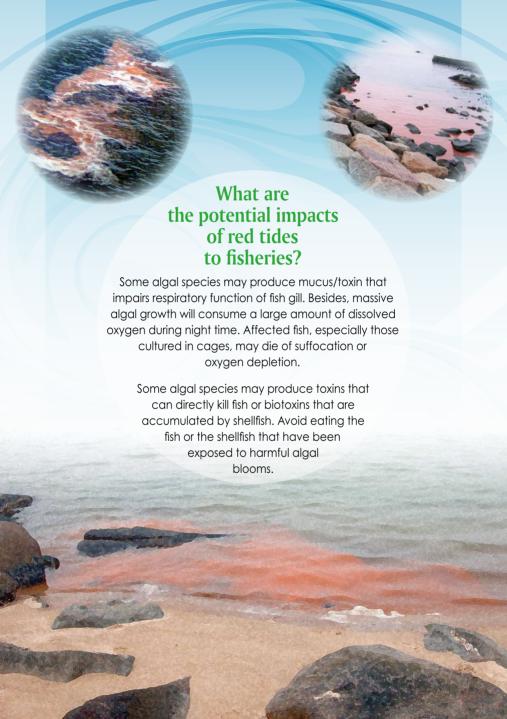
### What are the common species?

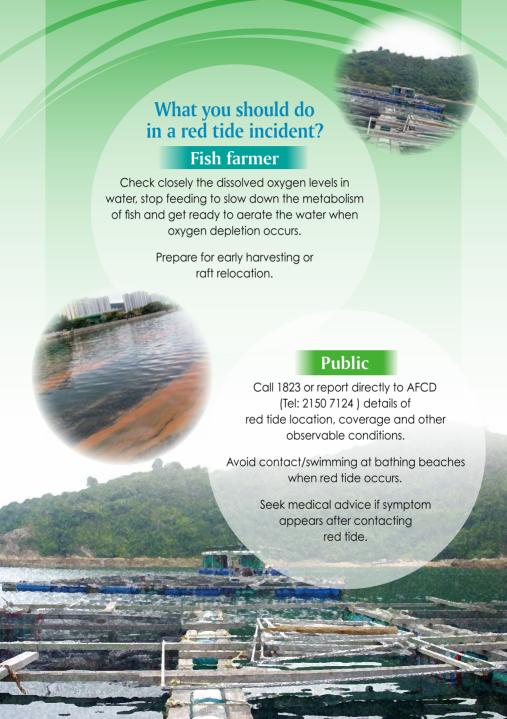
There are about 20 common red tide causative species in Hong Kong, examples include Noctiluca scintillans,
Gonyaulax polygramma and Skeletonema costatum.

中肋骨條藻 Skeletonema costatum

多紋膝溝藻 Gonyaulax polygramma

> 夜光藻 Noctiluca scintillans





### **Information and Enquiries**

Hong Kong Red tide Information Network http://www.afcd.gov.hk/hkredtide/index.html

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