

Reef Check 2020 finds corals in healthy and stable condition (with photos)

The Agriculture, Fisheries and Conservation Department (AFCD) announced today (December 5) that the Reef Check this year showed that local corals are generally in a healthy and stable condition and that the species diversity remains on the high side.

Hong Kong Reef Check 2020, a five-month exercise that started in June, covered a wide range of areas including a number of sites of ecological importance as well as the best coral-growing sites known in the eastern part of Hong Kong waters extending from Tung Ping Chau in the north to Ninepin Group in the south. Among the 33 survey sites, nine were within marine parks, including Hoi Ha Wan, Yan Chau Tong and Tung Ping Chau.

A variation in coral coverage, ranging from 13.8 per cent to 83.8 per cent, was recorded among the survey sites. Nineteen sites recorded over 50 per cent of coral coverage, including six sites within marine parks. Among all sites, Sharp Island East recorded the highest coral coverage of 83.8 per cent.

Reef Check 2020 also assessed the condition of corals at 21 sites using the Coral Watch tool. By measuring the colour intensity of the coral using a specially designed Coral Health Monitoring Chart, the health condition of corals can be determined. The deeper the colour, the healthier the corals. The average health index of the sites was 4.31 (ranging from 3.15 to 5.45), which was similar to last year's figure (3.96). The average health index is well above the general average value (3), indicating that the corals are in a healthy and stable condition.

Hong Kong Reef Check's survey method and data collection follow international standards. Reef Check divers recorded coral coverage and health status as well as other indicator species (including 20 species of fish and invertebrates). A correlation was observed between coral coverage and species diversity, indicating that sites with high coral coverage tend to support more fauna groups in close association with corals. Seventeen assigned indicator species were recorded in the survey sites, with wrasses, butterflyfish, snappers, sea urchins, sea cucumbers and cowries commonly found. A majority of the survey sites were found to have a high species diversity. Most of the groupers, wrasses, sweetlips and snappers were found in survey sites at Port Shelter in Sai Kung and North-eastern waters including Tung Ping Chau Marine Park.

Coral bleaching was observed at a few sites but the impact was minor and localised.

No signs of destructive fishing practices were observed at any sites. Abandoned nets were found at a few sites but their impact was minor. The AFCD will arrange for a contractor to clear the nets.

The Hong Kong Reef Check is part of a global programme to promote the sustainable management of coral reefs. The Hong Kong Reef Check aims to raise public awareness of the ecological importance of corals and the need for coral conservation, and to provide updated information on local corals for conservation and management. The Hong Kong Reef Check Foundation held the first Reef Check in 1997. The AFCD has collaborated with the Foundation in conducting the survey since 2000, which has gathered growing attention and support from the public. This year, 107 dive teams involving over 800 volunteer divers took part in the event, representing about 20-fold the number in 1997. The AFCD will later present certificates to the Reef Check teams and participating scientists to recognise their contributions.

Coral reefs are highly productive systems, which support a high diversity of marine life. For the sake of coral conservation in Hong Kong, the AFCD continues to put in place a series of measures and programmes. Key measures include the designation of marine parks and marine reserves for the conservation of the marine environment and protection of corals, the organisation of a range of educational and publicity activities to enhance public understanding of the importance of protecting the marine environment and coral communities, the yearly Reef Check and studies to monitor the status of coral communities of Hong Kong and provide information for effective and appropriate management, the installation of mooring and coral marker buoys to reduce coral damage caused by boating and recreational activities and the maintenance of a database to record the diversity and unique features of local corals. Recently, the AFCD has completed a consultancy study of coral bleaching and bioerosion in Hong Kong. The study provided updated and scientific data and recommended appropriate management measures and long-term monitoring.



