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The living reefs of Kusu Island. Under the Singapore Blue Plan 2018, which made recommendations to the Government this month, the protection of island clusters – instead of specific coral reef areas – is recommended that interconnectivity between habitats is preserved. Responding to the ground-up initiative, the Government has said it will see how it can work with the marine community to realise common goals. PHOTOS: RIA TAN

ScienceTalk

Dive into S'pore's marine environment to protect it

Greater awareness, dialogue between Govt and community can realise Blue Plan's goals

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About the writer

Dr Zeehan Jaafar is the lead editor of the Singapore Blue Plan. She is a marine biologist whose research focuses on the diversity, ecology and evolution of fishes. Concerned over the rapid loss of natural coastal areas of the region, she co-authored a book. Endangered Forested Wetlands Of Sundaland, which provides an overview of the current status of, and approaches to conservation efforts for coastal areas of the region. She is a lecturer at the Department of University of Singapore.

ted to the Government in 2001 and 2009, and the latest effort is the most comprehensive to date. Led by five marine biologists, and with over 100 contributors, the document in-cludes – for the first time – scientific and legislative data to support the proposed recommendations.

The recommendations are made

Singapore is an island-nation, and the lives of many Singaporeans are intertwined with the sea. Every day, coastal and marine areas here are used by thousands of people, for work and for play.

The impact of these activities on marine ecosystems is significant. Yet, rich biodiversity still persists in our waters. in the spirit of ensuring long-term benefits to the country's marine areas. Incorporating basic environmental science concepts into the formal school curriculum is one proposal. Students learn about local cul-ture and history in school, but little our waters. of Singapore's natural environ-These marine areas deserve protection – not for the sake of nature alone – but also for our own health ments. The country's biodiversity including that of marine organisms is unique. For instance, many may and future success. Coastal spaces and offshore islands offer us a respite from urban life and contribnot know that our mangroves are home to one of the smallest fish species in the world.

ute to our well-being and national identity. Healthy marine ecosys-tems also provide services such as Including environmental science and the ecological roles of native or-ganisms in the formal curriculum clean coastal waters important for ensures that we understand natural processes, and the implications of a changing climate. In the Blue Plan 2018, in addition aquaculture and desalination, and protection from coastal erosion. Their sustainable management

lier recommendations were submit-

will strengthen Singapore's reputa-tion as a global maritime hub and a to coral reefs – the main focus of ear lier years' recommendations – habi tat types such as seagrass meadows and mangrove areas are also pro-posed for preservation. The protec-tion of island clusters, instead of These are some of the premises upon which the Singapore Blue Plan 2018 – an effort to protect the marine environment - proposed recommendations to the Governspecific coral reef areas, is recommended for the first time to ensure that interconnectivity between Responding to the ground-up inihabitats is preserved.

nected islands also allows zoning for different uses within the area an important principle that the

As Singaporeans, we recognise the immense pressure on our limited land and sea areas. When deciding between reclamation and preservation at a coral reef site, for example, difficult decisions have to be made. These decisions must be made carefully, and after active engagement sessions between the community and the Government. Coming to a collective decision may be a laborious process but it allows stakeholders and government agencies to state and

Blue Plan 2018 advocates. Take Pulau Ubin, for example. If it is gazetted for protection, visitors to the island would still be able to enjoy the same activities, including fishing and kayaking. Limited ac-cess zones would be restricted only to biologically sensitive sites

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Realisation of the multiple present and potential uses of our natural ar eas is important in order to under stand the value of what would be

lost, so that we know what to save.

The commitment displayed by the Government to find a balance between infrastructure develop ment and conservation of biodiver sity and habitats is laudable.

Today, many community-led and Government-backed initia tives, such as coastal and ree clean-ups, mangrove and coral restoration efforts, and the annual Pesta Ubin festival to rediscover the island's charms, enhance com-

the Island's Charms, enhance community spirit.

Such activities are important because openness in communication paves the way for public stewardship of natural areas.

Several recommendations proposed in the previous Blue Plan 2000 have been implemented by

2009 have been implemented by the Government. Key among them was the Comprehensive Marine Biodiversity Survey – organised by the National Parks Board (NParks) and National University of Singapore – which ran from 2010 to 2015.

More than 350 surveys were con-ducted in the Johor and Singapore straits, uncovering a rich biodiversity of over 1,100 species, including many new ones. Another signifi-cant milestone was the designation of Sisters' Islands as a marine park.

It is our hope that the recommendations made in the Blue Plan 2018 can be realised through active part-nership and collaboration be-tween the community and government agencies

platforms where interested members of the public and the Government can continue the dialogue, because these issues affect all citizens. It calls for greater transparency and accountability in environmental governance, and the con-servation and sustainable use of the marine environment.

Urban development in fragile ecosystems that threatens endan-gered species must be considered with feedback from the commu nity, so we do not lose our natural and national heritage.

Often, when discussing some of the impacts to the marine environ-ment, we are met with an air of resignation over how little can be achieved as an individual. But the reality is quite the opposite: An individual wields incredible power.

Borrowing from Minister for So-cial and Family Development and Second Minister for National Development Desmond Lee's speech at the launch of the Blue Plan 2018 last Saturday: "You cannot protect what you don't love, and you can't

love what you don't know."

If you are interested in protecting marine areas, visit coastal and marine parks, as well as wetland re-serves. Be involved in community initiatives such as coastal and reef clean-ups or participate in guided walks. Share your experiences and your observations with your family and friends.

Resources on the Internet, in-cluding the websites of NParks, Celebrating Singapore Shores, and wildsingapore.com, provide ample information on these areas. The launch of the Blue Plan 2018

is just the beginning of our collec-

tive journey.

There is still much we do not know of our marine areas. Continued work to understand the pro-cesses within marine ecosystems is crucial to effectively manage them, especially in areas with competing uses. Available scientific data, in an accessible format, must be shared with the public so that there is good

awareness of our heritage. The Singapore Blue Plan 2018 envisages a Singapore that celebrates And we can only do this together.

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will see how it can work with the ma-

rine community to realise common

goals. This is the third blue plan: Ear-

smart, eco-conscious city.

Mangrove trees on Pulau Semakau. In the Blue Plan 2018, in addition to coral reefs - the main focus of earlier years'



guided walk at Chek Jawa on Pulau Ubin boardwalk was built, Initiatives led by the community and backed by the such as coasta clean-ups and the annual Pesta enhance community spirit and are crucial because openness in paves the way for public stewardship of says the writer