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Environmental Comparison between Xianghai and Mai 0

NENU x EdUHK Joint-U Ecological

Jilin Province in 2018

Objective

Based on the comparison, find out which one may provide a better living environment for the animals and plants, and what factors affect the wetland.



Introduction

Natural environment is one of the most crucial part in our world. It helps maintaining the balance in the ecosystem. It also facilitates the biodiversity. During our trip, we visit Xianghai in Jilin. It is a nature reserve for mainly protecting Red crowned Crane and Ulmus macrocarpa which are the rare animals and plants respectively. After our visits, we think that it is similar to one of the nature reserve in Hong Kong, Mai Po. It also provides different condition such as wetland for protecting different types of animals. In our investigation, we want to compare the environment for the animals between Xianghai and Mai Po. We will compare according to their habitats and the biodiversity.

2.1 Mai Po

Background

Wetland of Internation Importance

Inte-Importance
Mai Po is located at the North West part of HK which was recognized as 'Wetland of International Importance' in 1995. The size of Mai Po Nature Reserve is round Nature Reserve ... 380-hectare which acted as an important for the Migra Migratory waterbirds

the WWF According to are roughly 50 million migratory waterbirds will stop at there while wintering site along the East Asian-Australasian Flyway. The black-billed gulls and black-faced spoonbills are the most famous among all waterbirds as they are the world endangered animals .71, are roughly 50 million m gratory

Six Habitance

There are **6 wetland habitat** were wild animu. t, freshwater provided for the basement, including ponds, intertidal mudflats, mangroves, reeds and fish ponds. Other than the waterbirds, there are many wild animals and wetland animals, including 400 insects, 90 marine invertebrates, and 62 species of butterflies. ponds. intertidal

2.2 **Xianghai**

Xianghai is one of the major national nature reserve in Jilin. It totally covers 105467 hectares. It has complex terrain, diverse habitat and complex ecological environment. The complex ecological environment is one of the benefit for Xiang Hai to become a nature reserve. It is made up of sand dunes, grasslands, swamps and lakes.

Different animals are able to adapt the environment in Xlanghai. For this nature reserve, it mainly includes 595 species of plants which contains more than 220 kinds of medicinal plants. 12, There are also different animals living in the nature reserve. It includes 300 species of vertebrates which contains 293 species of birds, 37 species of mammals, 8 species of reptiles and 5 species of amphibians.

There is a *important mission*for Xiang Hai. It needs to
protect rare animals such as
Red-crowned Crane and
Haliaeetus pelagicus.
Therefore, Xianghai is one of
he necessary nature reserve in
mainland China.

3 Comparison

Habitats

Both Xianghai and Mai Po have complex terrain, diverse habitats, multiple biotas and complex ecological

Jilin Xianghai Nature Reserve is a nature reserve of inland wetland and water ecosystem type with the main purpose of protecting rare waterfowl such as red-crowned cranes and Mongolian sassafras. Sand dunes, grasslands, swamps and lakes are distributed in different directions, criss-crossing and dotted, forming a typical wetland diversity landscape.

diverse habitats, multiple biotas and complex ecologic: lenvironments, but they have different types of habitats Mai Po Nature Reserve is a Ramsar Site and Hong Kong's largest wetland. Inside the Reserve are 24 gei wais still in operation, as well as habitats such as fish ponds, reedbeds, mudflats and mangroves









Xianghai :

Xianghal:

The Xianghai Natural Reserve is very rich. Most of animal and plant resources of the Songliao Plain sub-region in the northeast region and the eastern grassland sub-region of the Mengxin District in China's animal geographical division are distributed here. There are 595 species of plants in the area, including more than 220 kinds of medicinal plants; more than 300 species of vertebrates, including 290 species of birds, 37 species of mammals, 8 species of reptiles, 5 species of amphibians, 29 species of fish, and national key protection.'3, There are 52 species of will danimals in the 355 species. Among them, there are 10 species of protected birds: Datun, Oriental White Stork, Black Stork, Red-crowned Crane, White Crane, White-headed Crane, Golden Eagle, White Shoulder Sculpture, White-tailed Sea Eagle, and Tiger Head Sea Eagle. There are 42 species of secondary protected birds. Meanwhile, there are 235 terrestrial wild animals that are beneficial to the state or have important economic and scientific research value.

Special Biodiversity



Mai Po
A large number of species is attracted to reside in the area of Mai Po, including around 400 insect species and 300 bird species. In addition, every year Mai Po attracts over 60,000 migratory waterbirds for wintering, including the famous Blackfaced Spoonbill. It is also estimated that around 120,000 migratory waterbirds pass through and stop over Mai Po each year, as the site is situated on a flyway. The Reserve has set up several bird watching hides for bird observation. ⁷4,

1 Conclusion

To sum up, Xianghai Natural Reserve and Mai Po Nature Reserve have provided the good environment for the living organi in terms of their climates, special biodiversity and diverse habitats. It seems that Mai Po contains less complex ecologic environment. However, as the area of Mai Po is much less than Xianghai. It does not reflect Mai Po cannot provide good environment. At the same time, both nature reserve have done the great job for the animals. We think Hong Kong still lacl nature reserve, it is not enough to protect all the animals. We suggest Hong Kong can develop the natural environment to become others nature reserve.

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