Survival and Protection for Spotted Seal (*Phoca largha*) in Yellow Sea Ecoregion





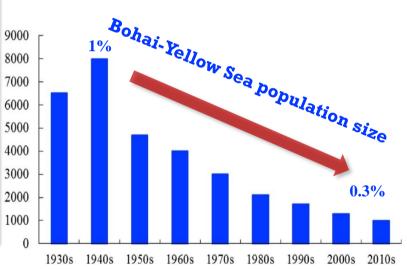




SPOTTED SEAL

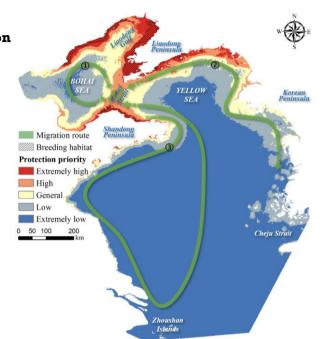
Phoca largha

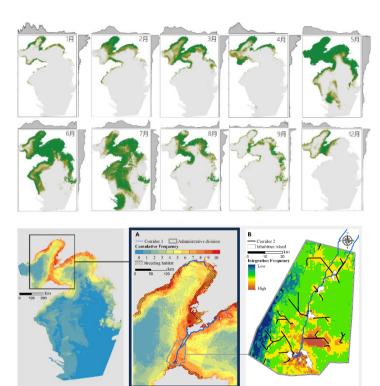
- Activity space connects the NEAMPAN.
- Small geographically marginal population (YSP)



☐ Bohai-Yellow Sea Population

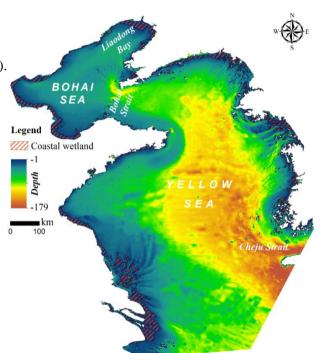
- Seasonal habitats
- Breeding habitats
- Conservation priority areas
- Migratory routes
- Ecological corridors.

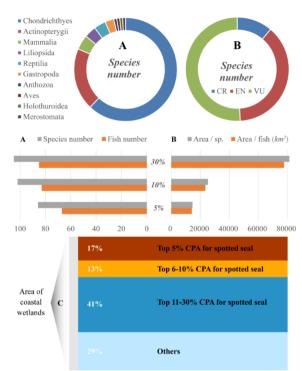




☐ Umbrella effect of the spotted seal

- The Bohai-Yellow Seas are one of the 43 marine conservation priority areas (WWF).
- Coastal wetlands are listed in the IUCN Red List of Threatened Ecosystems.
- Including 108 IUCN threatened species.
- Under the 30×30 target scenario, the conservation priority area for the spotted seal covers 71% coastal wetlands and 97% IUCN threatened species.

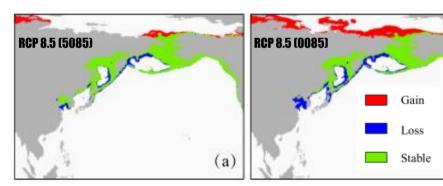


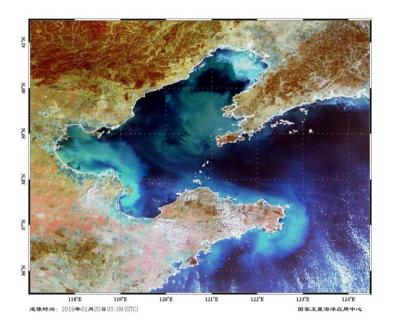




☐ Global Climate Change

- The melting of sea ice directly results in the loss of breeding habitats.
- Habitat tended to migrate to higher latitudes under climate change.
- Bohai-Yellow Sea population faced the greatest risk of losing habitats due to climate change.





☐ Anthropogenic activities

 The human factors affecting the survival of spotted seals mainly include a series of marine development and utilization activities, such as waterway icebreaking, overfishing, marine aquaculture, oil and gas exploitation, and offshore wind power.













☐ Protection according to law

- 《中华人民共和国野生动物保护法》
- Wildlife Protection Law of the People's Republic of China
- 《中华人民共和国海洋环境保护法》
- Marine Environmental Protection Law of the People's Republic of China
- 《中华人民共和国渔业法》
- Fishery Law of the People's Republic of China
- 《中华人民共和国自然保护区条例》
- Nature Reserves Regulations of the People's Republic of China
- 《中华人民共和国水生野生动物保护实施条例》
- Implementation Regulations of the Protection of Water-living Wild Animals of the People's Republic of China

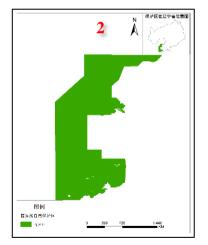


- ◆ 《国家公园法》《自然保护地法》
- ◆ The *National Parks Law* and the *Protected Areas Law* are being promoted, will also be an important guarantee for the spotted seals protection in the future.

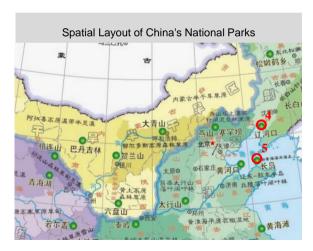
☐ Establishment of marine protected areas

- The Chinese government has established **102 national MPAs** in the Bohai and Yellow Seas, covering an area of 51,843 km².
- 13 Nature Reserves, 43 Nature Parks, and 46 Aquatic Germplasm Resources Reserves.
- Notably, targeted measures have been implemented to ensure the in-situ conservation of spotted seals, establishing the *Dalian Spotted Seal National Nature Reserve*¹, the *Liaoning Liaohekou National Nature Reserve*², and the *Shandong Miaodaoqundao Spotted Seal Provincial Nature Reserve*³.
- Liaodong Bay, Bohai Strait and other key habitats for spotted seals will be established in the future **Liaohekou**⁴ and **Changdao National Parks**⁵.



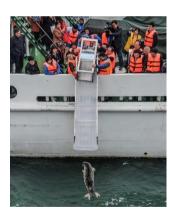




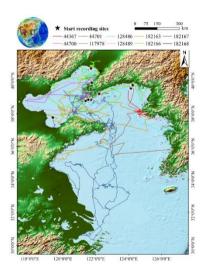


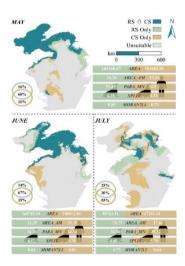
□ Additional conservation actions in China

- Enhance the level of protection and implement targeted measures.
- National Level 1 Protected Wild Animals and Endangered Species; Plan for the Conservation of Spotted Seal (2017-2026).
- Rescue, breeding and reintroduction into the wild.
- Conduct joint patrols and law enforcement to combat illegal activities.

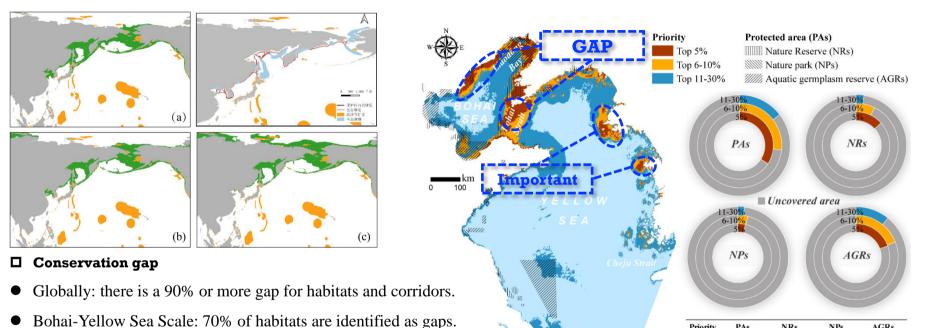












Priority

PAs

6621 (27%)

11-30% 15360 (15%) 2685 (3%)

NRs

1801 (7%)

8397 (34%) 3285 (13%)

NPs

AGRs

887 (4%) 4806 (19%)

961 (4%) 4722 (19%)

2195 (2%) 11444 (11%)

Nature reserves and Aquatic Germplasm Resources Reserve are the most important.

Initiative

- To better protect the spotted seals and enhance their global connectivity, we suggest
- 1. Conducting transnational conservation cooperation.
- 2. Improving the in-situ conservation network and the effectiveness of ex-situ conservation.
- 3. Establishing a public database platform, including gene database and image database.
- 4. Promoting the mainstreaming of spotted seal conservation.
- 5. Strengthening scientific research and personnel training.
- 6. Conducting public science education.





Thanks for your listening!

Population Survival and Protection Report for Spotted Seal (*Phoca largha*) in China

E-mail: zhuanghf@fio.org.cn

WeChat: zhuanghf1209

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