



# Transboundary cooperation among protected wetlands in the Tumen River Estuary

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# Content

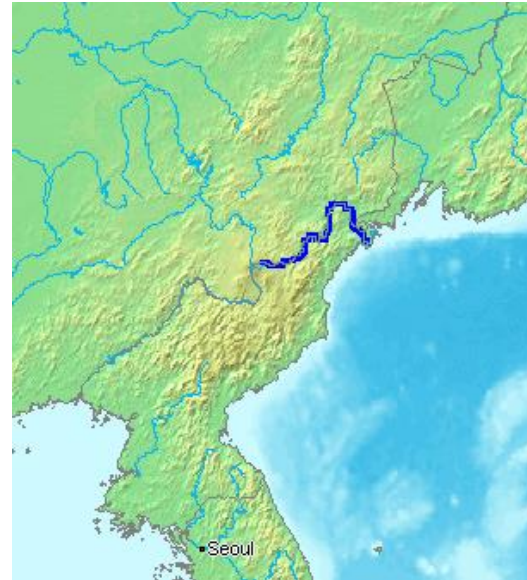
- International Importance of Tumen River
- Current Nature Conservation
- Challenges to International Conservation
- Recommendation





# About Tumen River

- Boundary river: originates from southwest of Changbaishan and locates at northeast Asia
- Length of mainstream 525 km: 510km between China and DPRK, 15km between Russia and DPRK
- River basin covers 33 168 km<sup>2</sup>: 22 632km<sup>2</sup> in China and 10 565km<sup>2</sup> in DPRK



# Wildlife in Tumen River Basin (Delta)

Higher animal: 87 family 422 species

Higher plant: 134 family 2091 species

Bird 291 sp.



*Grus japonensis*

*Haliaeetus pelagicus*



*Aythya baeri*



Plant 2091 sp.

Fish 40 sp.



*Oncorhynchus masou* (endemic)

Reptile 13 sp.



*Leuciscus brandti*

Mammal 66 sp.



*Panthera pardus*

*Panthera tigris altaica*

Amphibian 12 sp.



*Lampetra japonica*



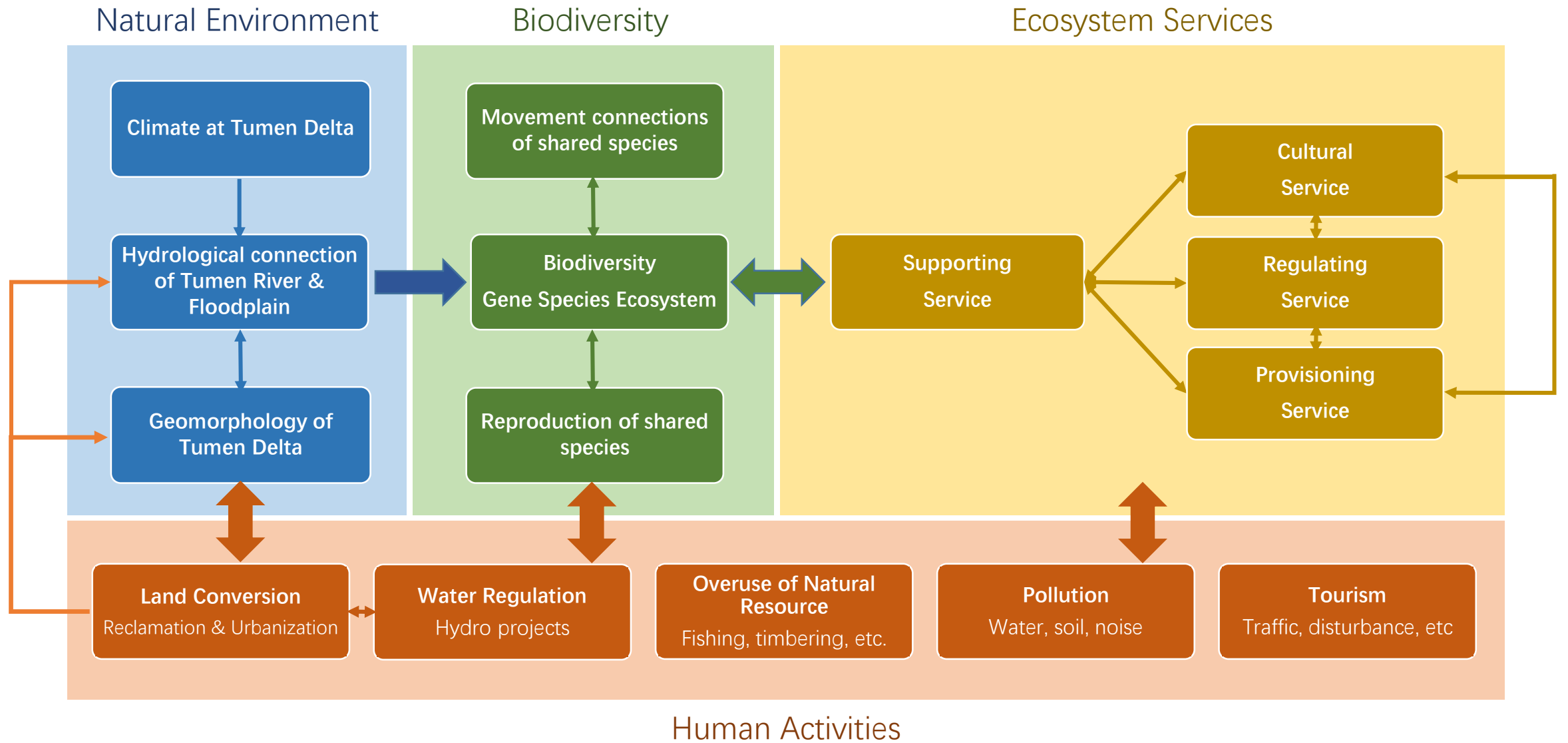
# Wildlife in Tumen River Basin (Delta)



- Trans boundary and shared habitat
  - Lateral migratory, fishes
  - Longitude migratory, water birds
  - Regional migratory, tigers and leopards



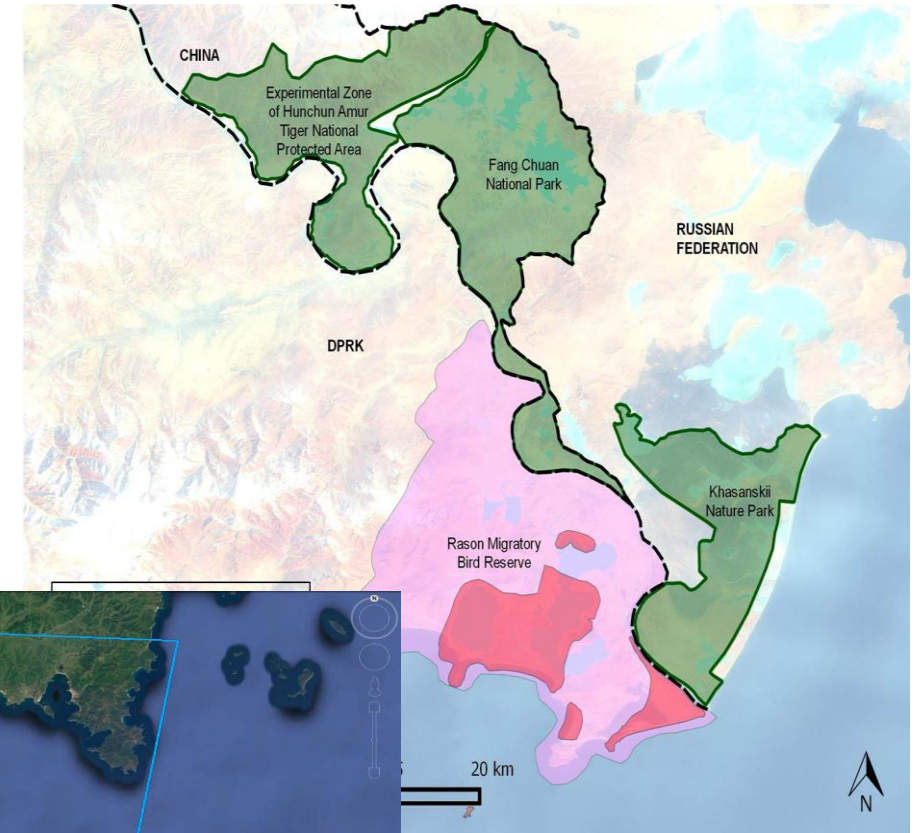
# Conceptual framework of Tumen Delta Ecosystem Feedback





# Overview of target areas in the Tumen river estuary

Country	Target sites/ [status]	Area	Species
DPRK	Rason Migratory Bird Reserve [Ramsar site (2018)]	3,525.7 ha	111 bird species (2014)
China	Fangchuan National Scenic Area	1,416.13 ha	200 migratory bird & 109 wildlife species
	Jingxin wetland	8,000 ha	
Russian Federation	Khasansky Nature Park [prefectural level PA]	12,298.2 ha	162 migratory bird species



# Key messages



Protect and utilize significant ecosystem service value of the Tumen delta



Need to have communication and coordination among stakeholders and between countries



Carry out joint research, and information and cultural exchange





# Recommendations

## Build scientific basis

### Fill information gap and support local planning

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Develop standardized technical protocol and conduct synchronized wetland inventory, including waterbird census

## Raise awareness

### Recognize the ecosystem integrity and value of Tumen delta

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- Information and data sharing among three countries and local administration

## Wise and sustainable use

### Support sustainable local development

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- Joint bird festivals
- Develop transboundary ecotourism plan based on joint research projects

## Supporting mechanism

### Build communication and coordination channels between local governments

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- Support coordinate wetland conservation and management