# Hooded Crane, White-naped Crane and Black-faced Spoonbill Conservation in China

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### Self Introduction

- Dr Zhang Guogang, Ornithologist, work on bird conservation and Avian Influnza
  - National Bird Banding Center

- Professor Lei Guangchun, wetland ecologist, work on wetland sciences and water birds conservation
  - School of Nature Conservation

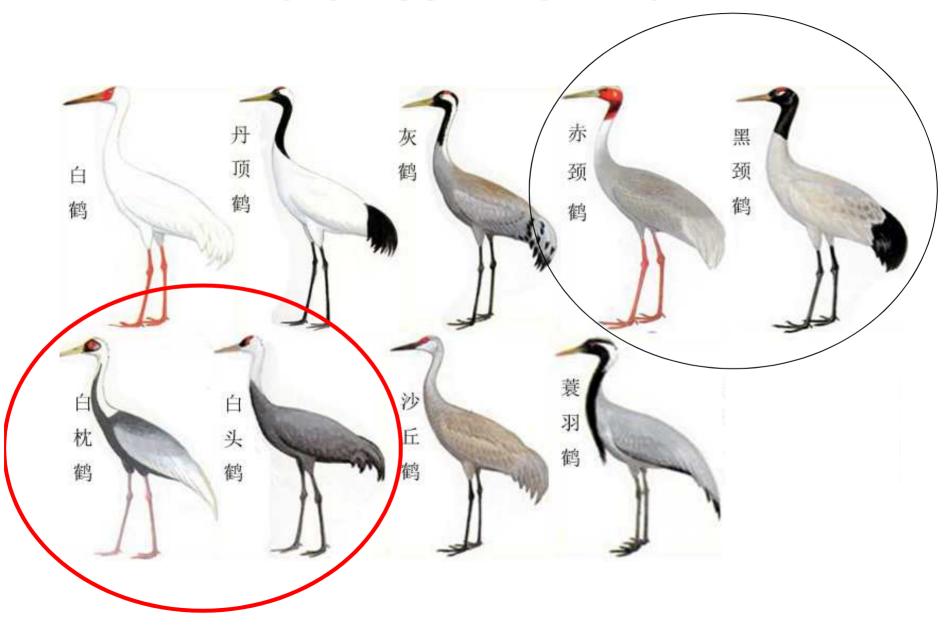
### **Outlines**

Current Status of the Cranes and Black-faced spoonbill

Potential sites for the habitat management

Threats to the cranes and black-faced spoonbill conservation

### **Cranes in China**

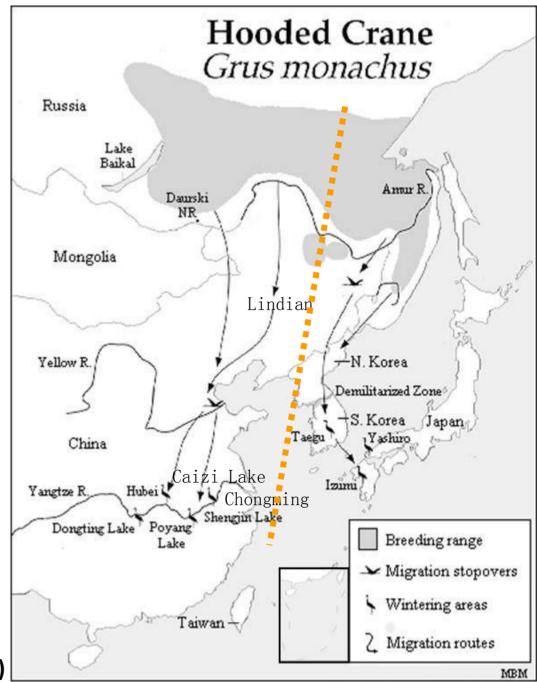


- Hooded Crane
- China National Protected Species: Class



 Breed in Northeast of China and Russia

- Stop over in northeast and north China
- Winter at middle and lower reaches of Yangtze



(Based on Meine & Archibald, 1996)

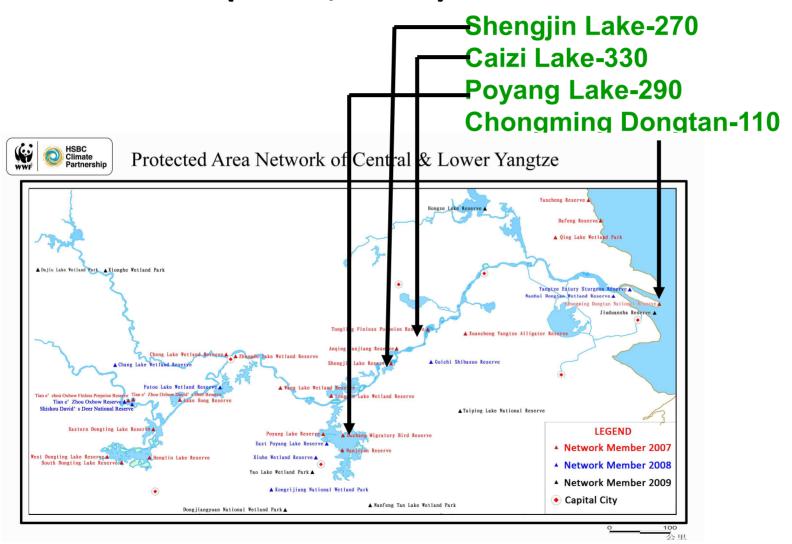
- Small portion of Hooded Cranes breed in northeast China.
- Since the first nest was found (Li, 1993), 25 nests were allocated from 2003-2010.



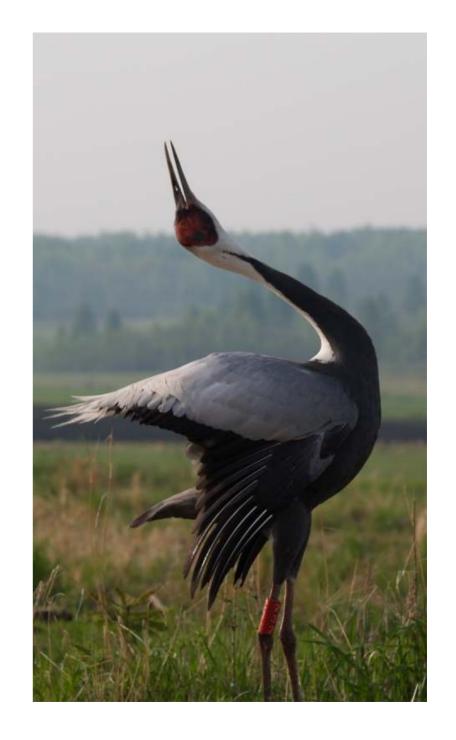
 The staging sites in China are farmland and grassland, or wetlands. They often found feeding on cereals in the farmland.



 There are about 1,000 hooded cranes winter in China (WWF, 2004)



- White-naped Crane
- China National
   Protected Species: Class | |

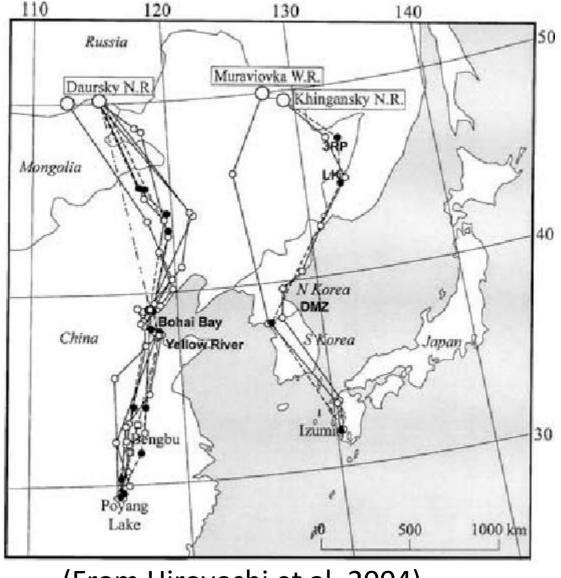


### The Typical Breeding Ground in Northeast China



 White-naped Cranes breed in northeast China, Mongolia and Russia.

 Northeast and Bohai Bay of China are the important stopover for the Cranes.



(From Hiroyoshi et al, 2004)

- Miyun Reservoir in Beijing was found to be very important for the cranes
- 1020 White-naped Cranes were found here in 2013.

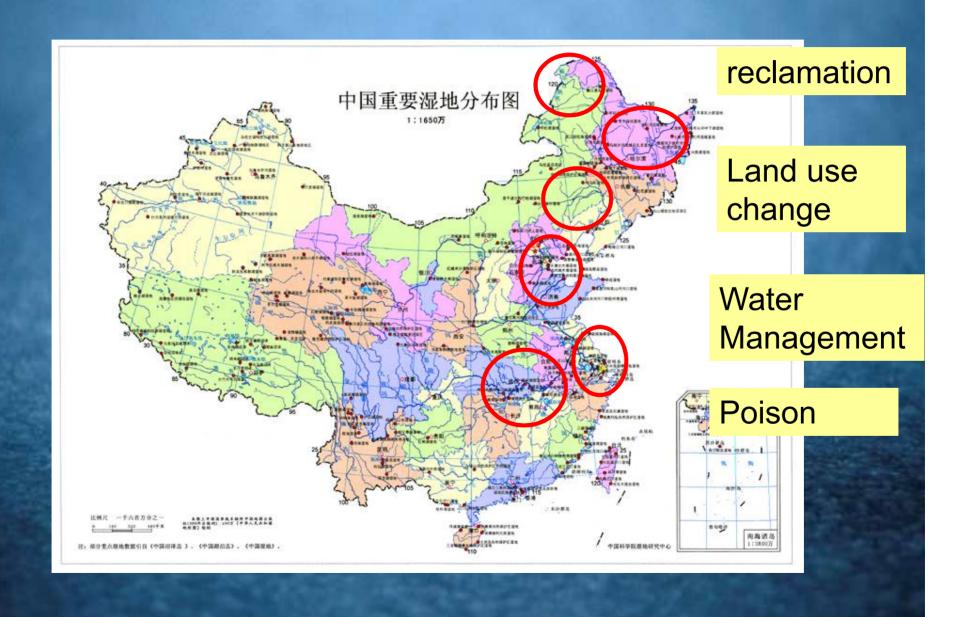
It winters in Central Yangtze, Poyang Lake, Shenjing Lake, Caizi Lake

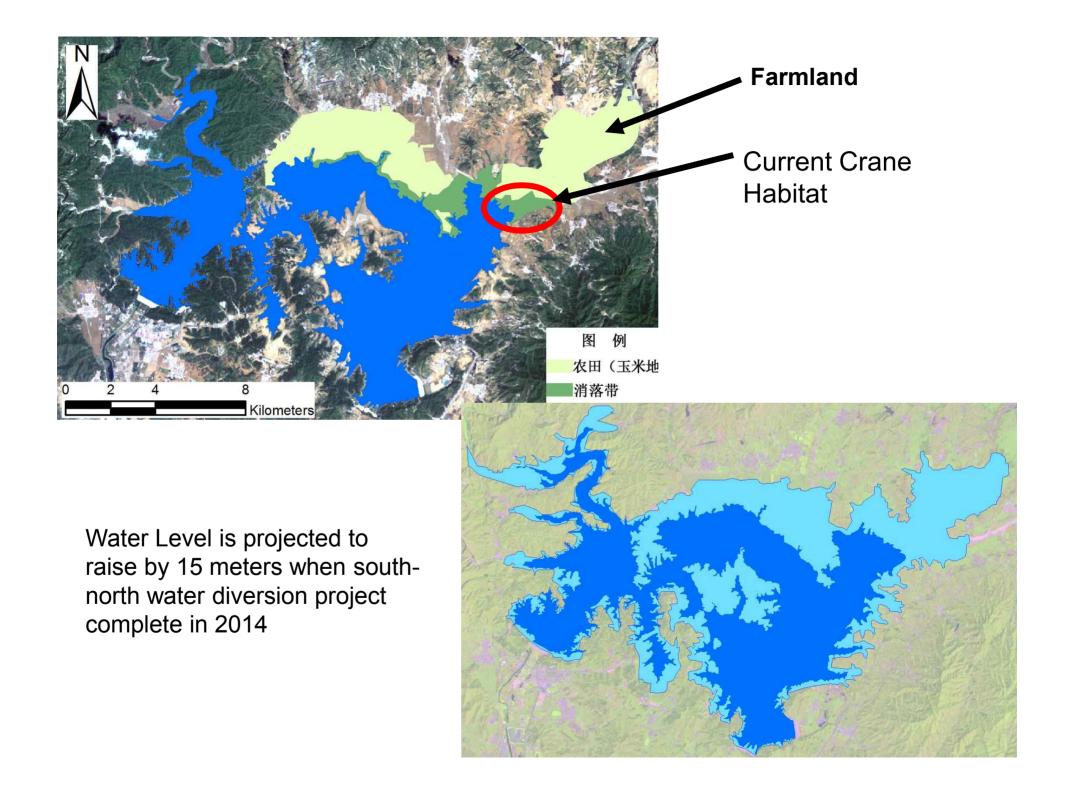


### II Key Crane habitat in China



### III Key Threats: wetland reclamation

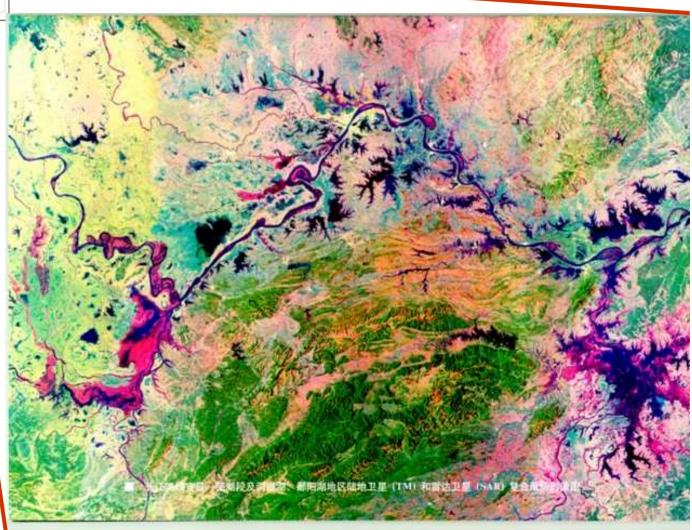






Wetland Restoration in Central Yangtze reached a limited success only, new challenges may be even more serious

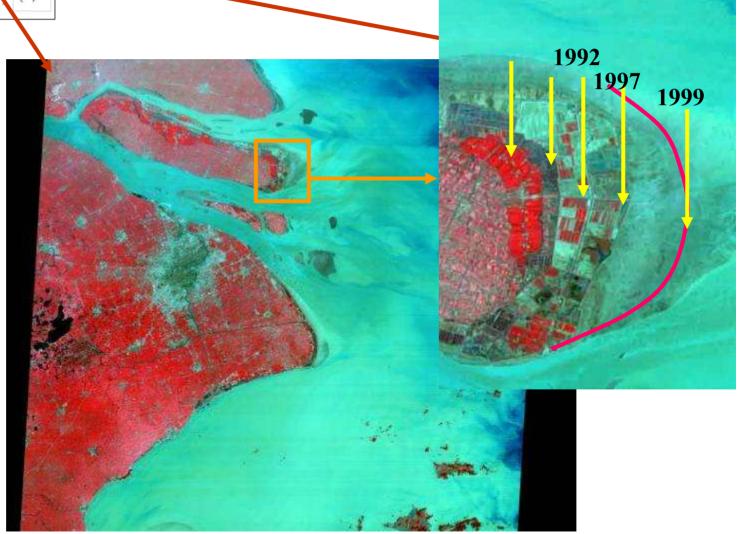
Asymmetric Erosion of River bed versus Lake





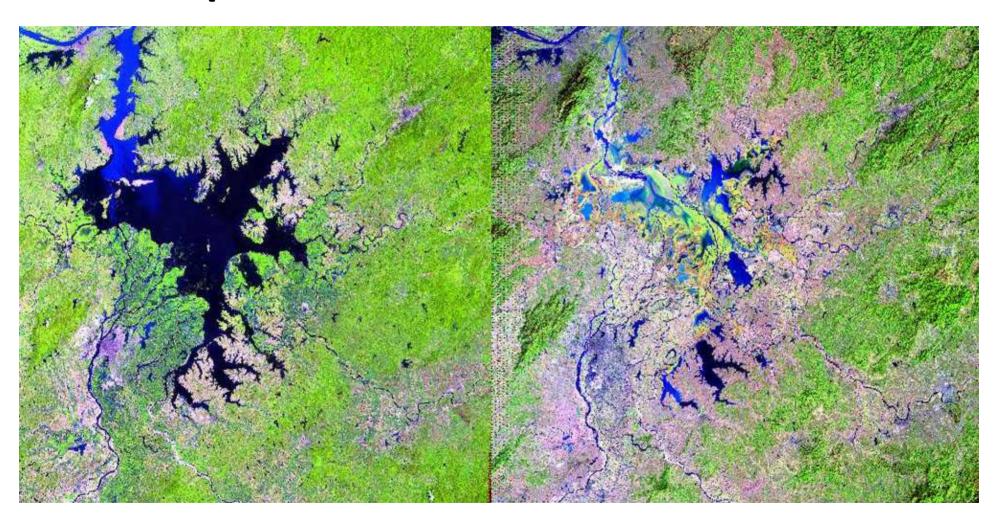
### **Growing of Chongming Island soon be Reversed**

See Level Raising Worsen Coast Erosion



### **Poyang Lake**

(The Largest Chinese Freshwater Lake)



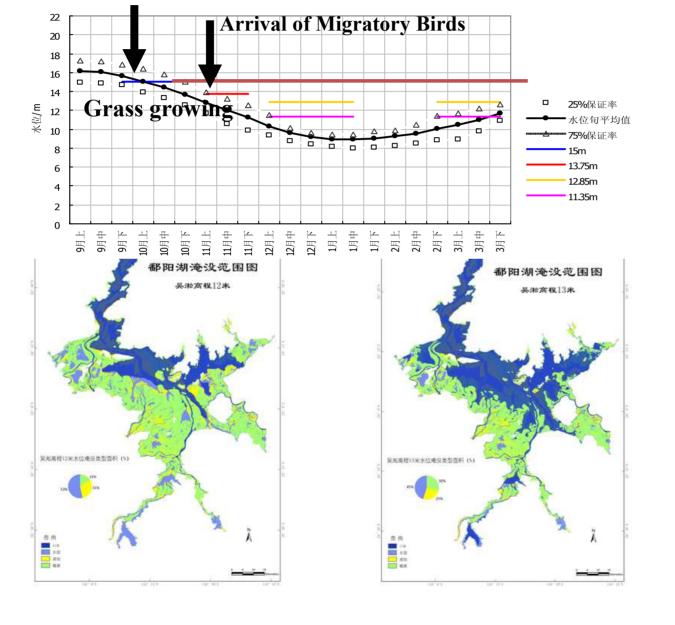
### **Local Government Proposal: Damming the Lake**



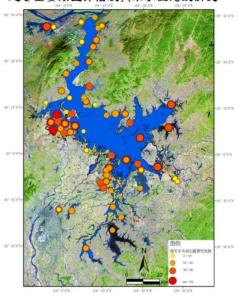
CHINA

## Scientists Line Up Against Dam That Would Alter Protected Wetlands

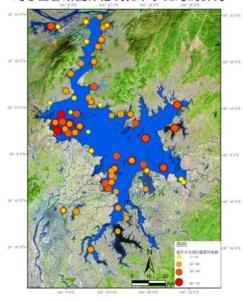
#### 1956-2008年星子站水位与水鸟迁徙变化规律



#### 越冬重要湖区评估及14米水位淹没情况



越冬重要湖区评估及16米水位淹没情况



### **Wetland Types in Winter**

Shallow water area Elevation:12-13m 浅水湖泊 蚌湖 珠市湖 中湖池 常湖池 大汉湖

Mudflat 8.5-13.5m 泥滩

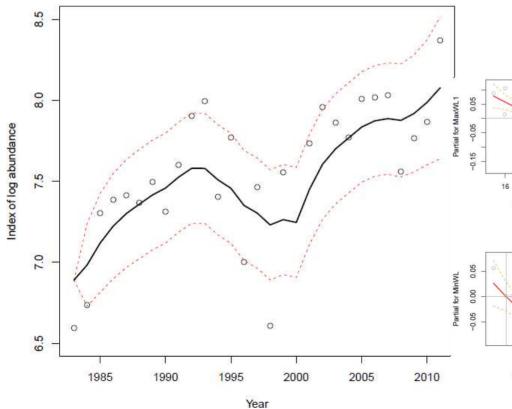
> Mashes 11.5-14m 沼泽湿地

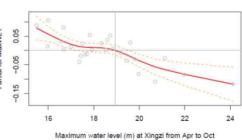
Wet Meadow 9.5-15m 湿草甸

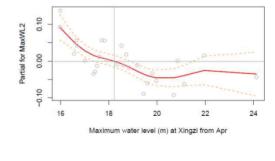
River 河流湿地

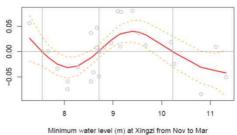


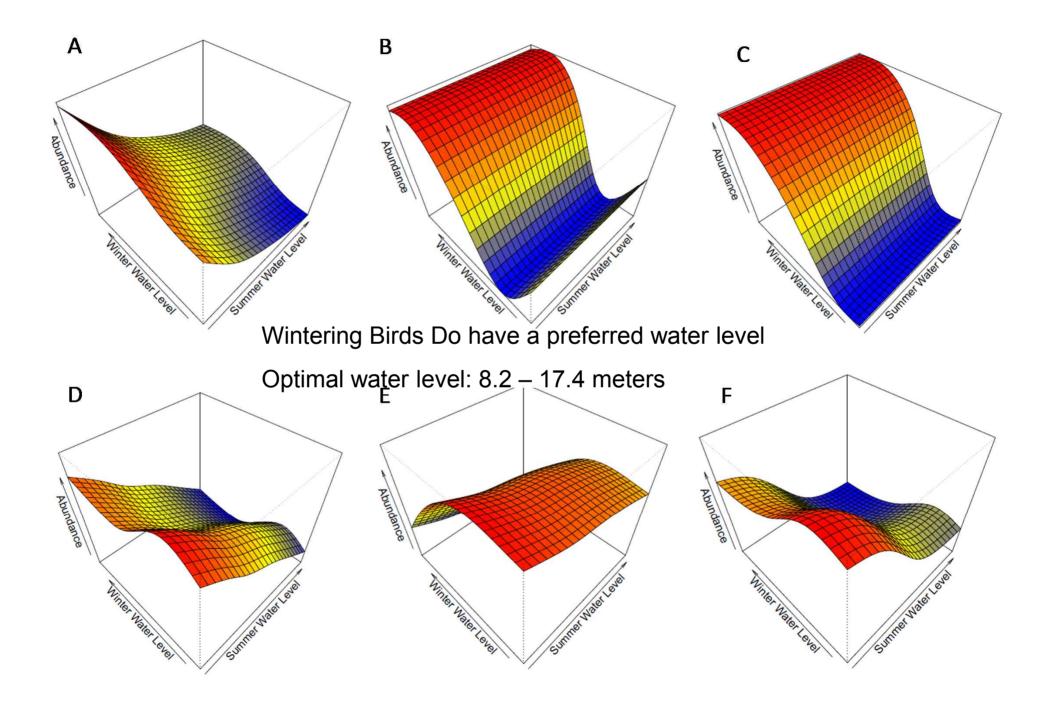












# The conservation on Black-faced Spoonbill and their habitats in Mainland China

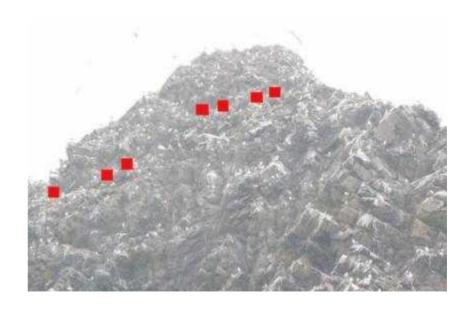


### Surveys at breeding sites



Xingren Tuo
One nest in 2013

Yuanbao Tuo 13 nests in 2013





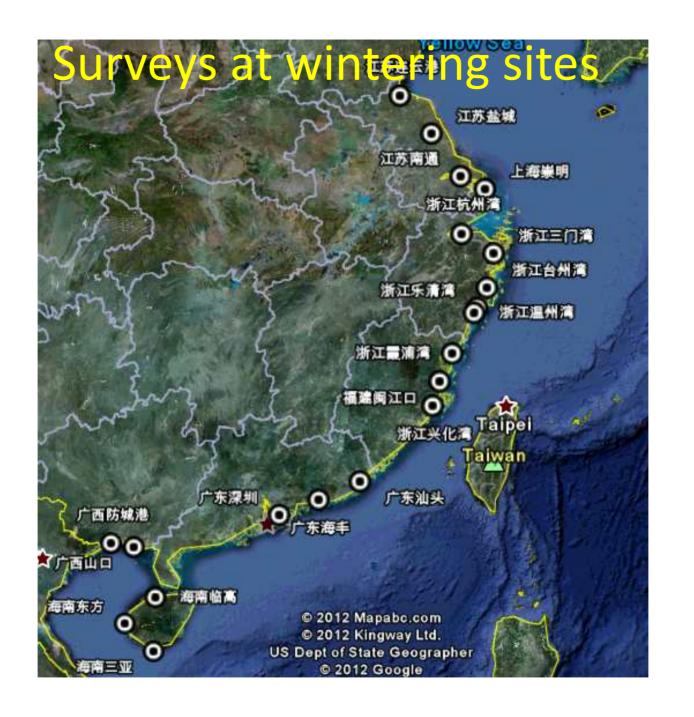
Feeding site: Zhuanghe River mouth

### Conservation

- The first Breeding site Xingren Tuo has been damaged, and most Black-faced Spoonbills have bred at Yuanbao Tuo
- Human disturbance including tourism and egg collection
- No effective conservation and management

### Suggestions

- Setting up national reserve in breeding site
- Strengthening the protection on feeding site Zhanghe River mouth
- Public awareness



### Surveys at wintering sites

- A total of 294 Black-faced Spoonbills were recorded at all wintering sites in China Mainland.
- At provincial level: 142 ind. were observed in Fujian, then 89 in Guangdong, and 47 in Hainan.
- At sites level: Xinghua Bay of Fujian: 120 ind.,
- Haifeng of Guangdong: 81 ind.
- Dongfang of Hainan: 36 ind.







滩涂围垦、海产品采集、水域污染等威胁



风力发电场——黑脸琵鹭的栖息地

沿海红树林

### Conservation

• Mudflat Reclamation: Chongming of Shanghai, Haifeng of Guangdong, Xinghua Bay of Fujian, Lingkun Island of Zhejiang;

• Pollution: Dongfang of Hainan, Xinghua Bay of Fujian

• Wind power: Dongfang of Hainan