



Workshop on Nature Conservation and Transboundary Cooperation

Conservation in Connected World

— Introduction on School Nature Conservation, BFU

Lei Guangchun

28 November, 2016 Beijing



About School of Nature Conservation



History, Discipline and People



Rooted from 50 Years' Foundation of Relevant Disciplines in Beijing Forestry University

生态学 Ecology

园林设计与景观规划 Landscape Architecture Design

水土保持 Water and Soil Conservation

生物学 Biology

艺术学 Arts

社会学及环境法 Social Science and Environmental Law

管理学 Management



History, Discipline and People



Nature Reserve Research Center of the State Forestry Administrations was established in 2001

School of Nature Conservation Inaugurated in **2004** jointly by the State Forestry Administration and the Ministry of Education

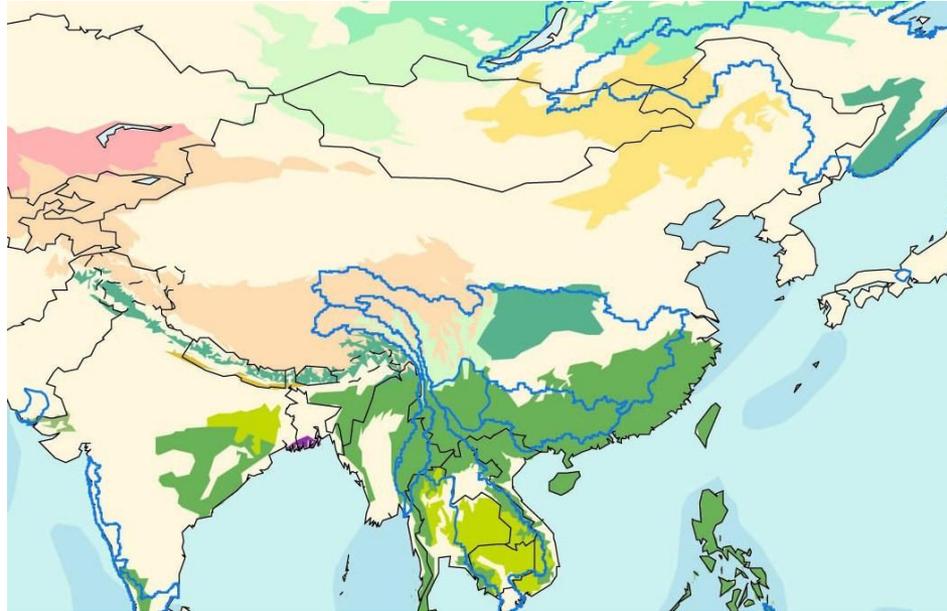
- **Nature Reserve Studies**
- **Wetland Ecology**
- **Wildlife Conservation and Wise Use**

- 37 faculty members, 6 intl. guest professors
- 417 student (Undergraduate and postgraduate)

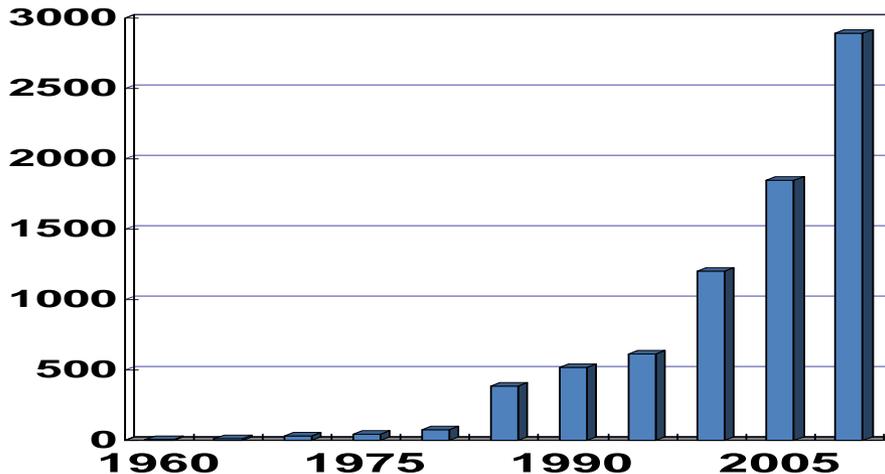




Focus and Output



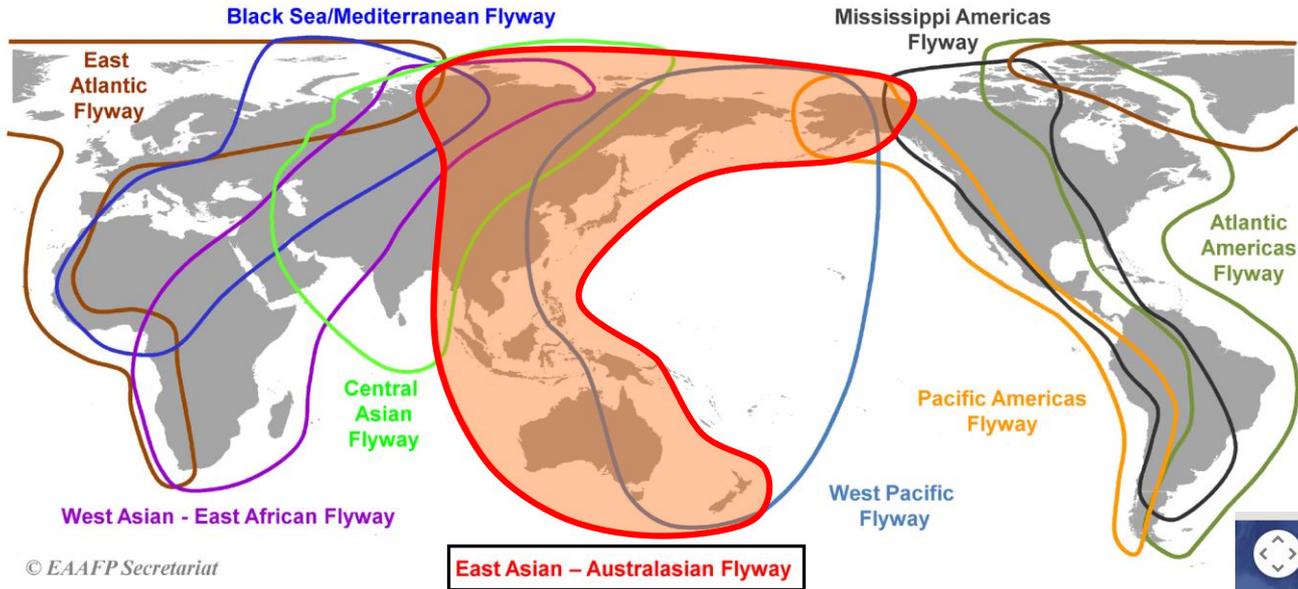
PA Types	Number	Area (mil ha)	Start year
Nature Reserve	2885 (428)	149	1956
Forest Park	3100(660)	15.7	1982
Scenic Areas	962 (225)	19.4	1982
Water Conservancy Scenic Spot	1000 (658)	**	2001
GeoPark	252	***	2004
National Wetland Park	1000 (569)	1.4**	2005
Agrobiodiversity Protection Spots	329(103*)	**	2001
Marine PA	155	****	
Total	9683	185.5 ???	



* Fishery Genetic Resource PA

Effective Conservation in PAs

Focus and Output



**Effective Conservation in
Connected World**





Focus and Output



Teaching and Training





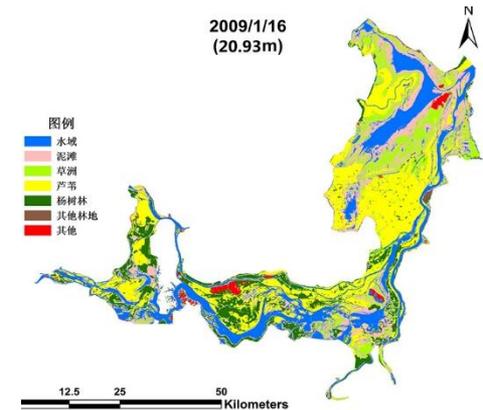
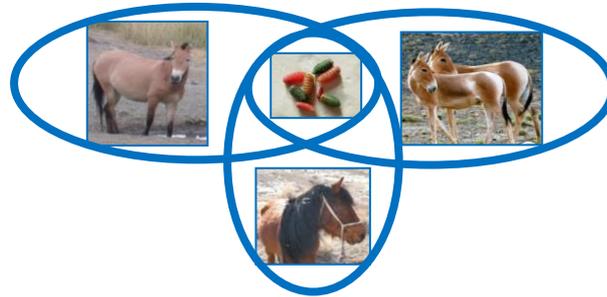
Focus and Output



Fundamental Research



From Molecular to Landscape...

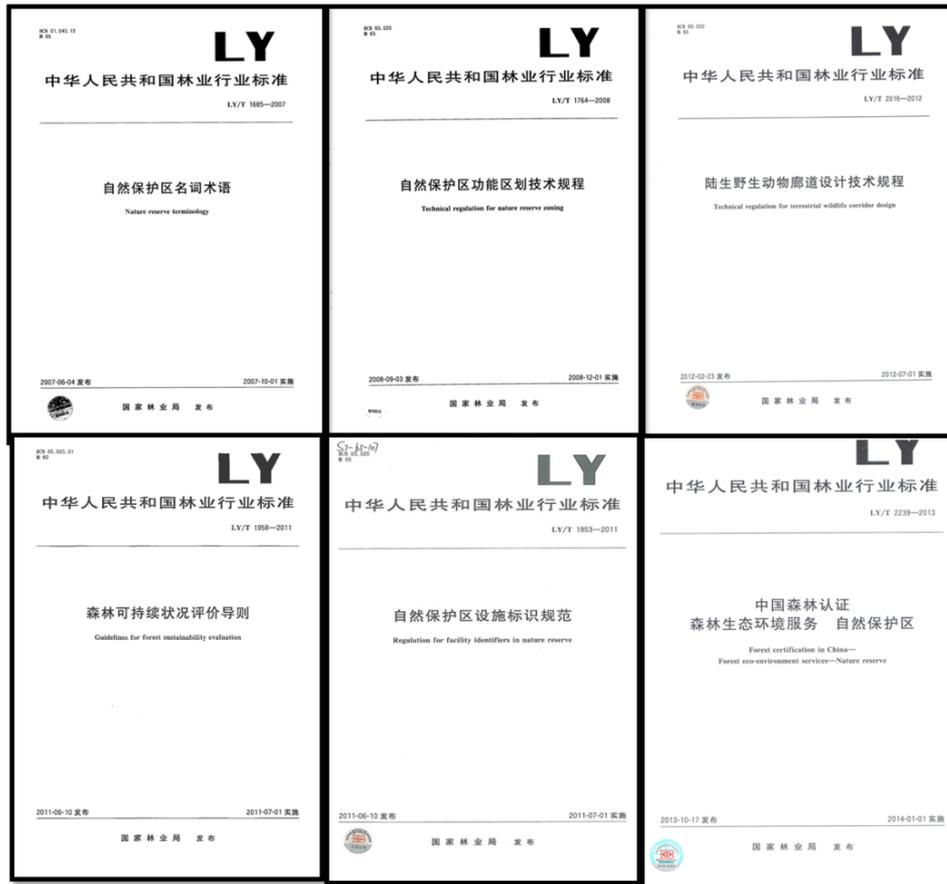




Focus and Output



Setting Standards



制定自然保护区建设标准
Setting Nature Reserve
Development Standard

制定全国环境与自然保护高
等教育人才培养标准
Developing National Higher
Education Standard for the
Environment and Nature
Conservation Disciplines

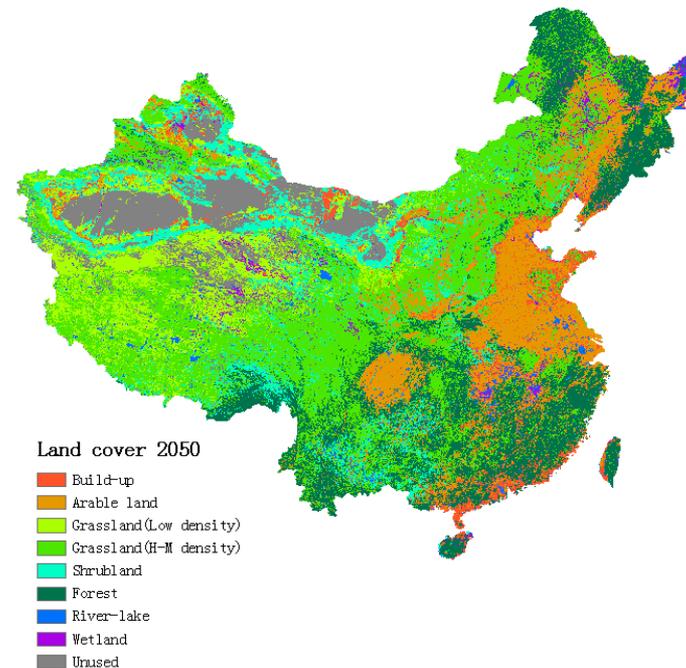
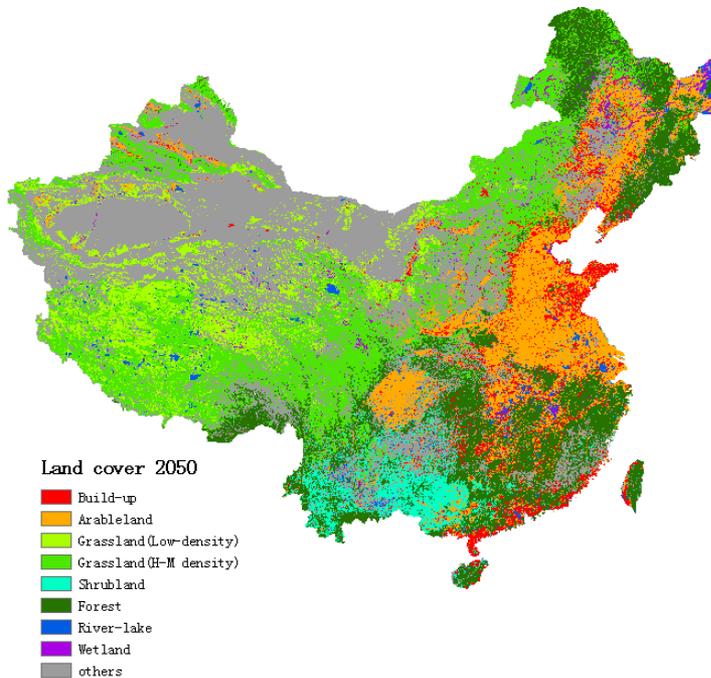


Focus and Output



Policy Making Support

National Strategy on Ecosystem Management (2010-2012 CCICED)



运用生态系统方法、提升生态系统服务是唯一的选择

Application of Ecosystem Approaches and Enhance Ecosystem Services is the only Choice for China, in order to achieve its 2020 development goals



Focus and Output



Networking and Cooperation



雪豹及猫科动物研究网络 Snow Leopard & Cats Research Network

EAAF Partnership Network



Regional Cooperation on Habitat Conservation in Northeast Asia

EAAF

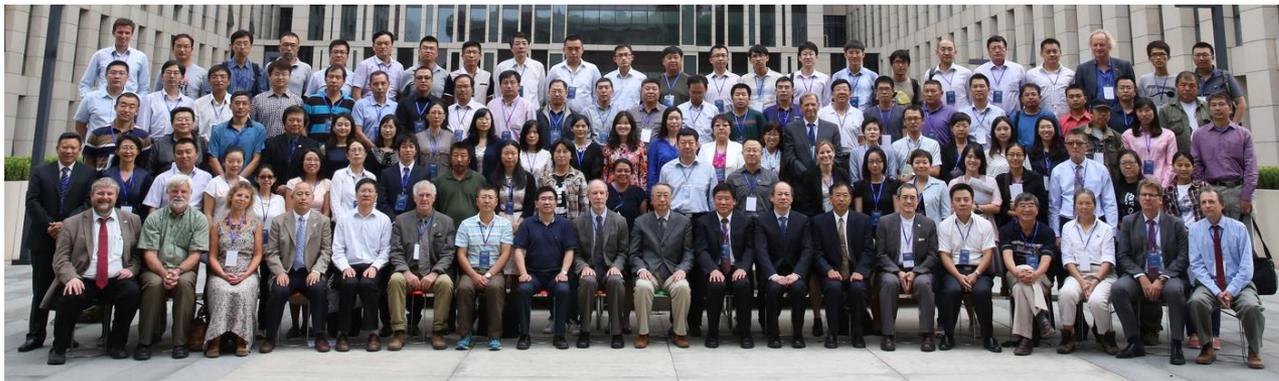
- China National Partnership Secretariat
- Network sites
 - Information sheets
 - Training



By Feng Duoduo

Yellow Sea Ecoregion

- WWF
 - Yellow Sea Initiative
- SFA-Lao Niu Foundation-Paulson Institute
 - China Coastal Wetland Conservation Blueprint Project
- RSPB-WWF
 - Intertidal Wetland Conservation Workshop
- IUCN
 - Resolution 28, IUCN WCC 2012, Jeju
 - Resolution 24, IUCN WCC 2016, Hawaii



中国黄渤海滨海湿地保护
与管理国际研讨会

International Workshop on Intertidal Wetland Conservation
and Management in the Yellow Sea Provinces of China

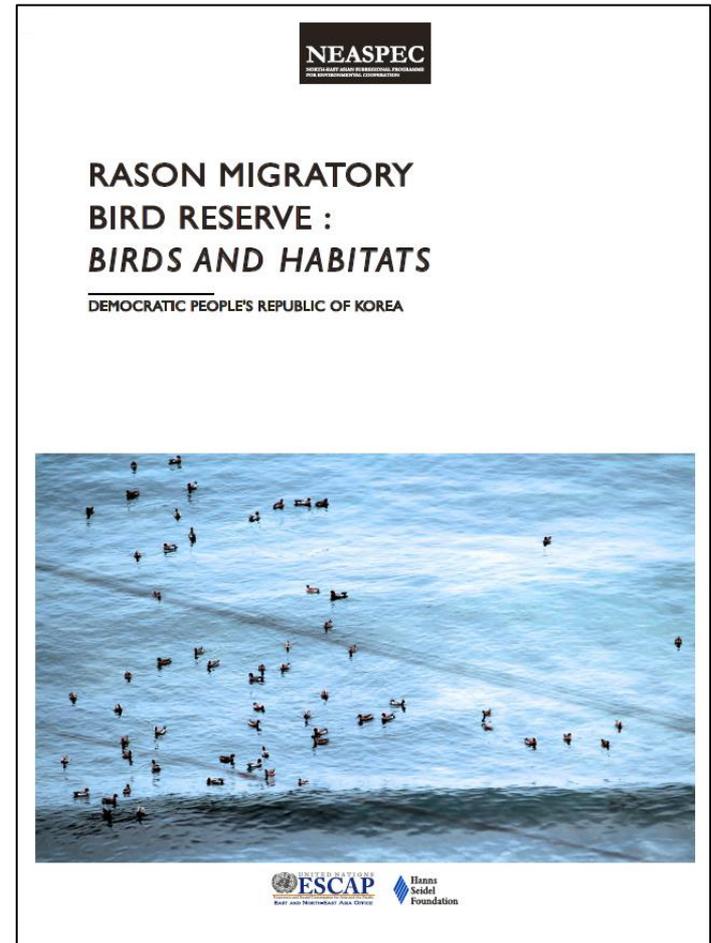
会议时间:2014年9月16日-17日
会议地址:北京林业大学下沉广场学研报告厅
主办单位:北京林业大学 世界自然基金会
会议主题:

- > 黄渤海滨海湿地重要性;
- > 黄渤海滨海湿地现状评估;
- > 黄渤海滨海湿地保护与管理的国家与地方政策;
- > 分组讨论维持滨海生态系统服务与关键栖息地的综合海岸管理策略、国家滨海湿地红线政策;
- > 滨海自然保护区管理措施与政策创新

欢迎自然保护与管理领域的广大师生听会

DPRK

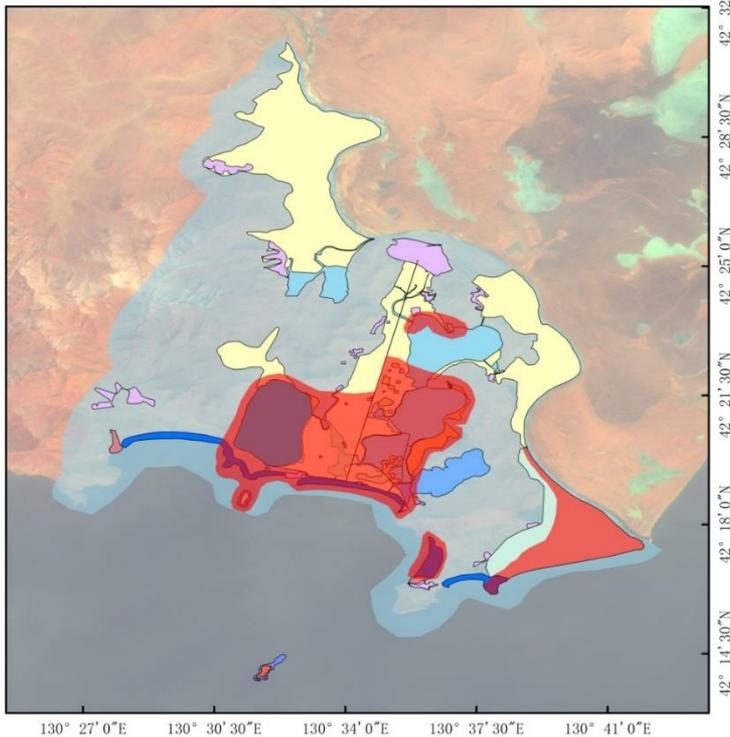
- Rason Migratory Bird Reserve 2014
- Mundok National Natural Monument 2016





Legend

- Constructed
- Harpor
- Island
- Island Buffer
- Coastal
- Estuary
- Pond
- Marsh
- Tidal lake
- Freshwater lake
- Pine woods
- Rice Paddy
- Reeds
- Semi-Freshwater Lake
- Buffer Zone
- Core Zone



Suggested Zonation at Rason Bird Reserve
(BFU-UNESCAP, 2014)



Mudflat at Mundok Estuary
(BFU-HSF, 2016)

RoK

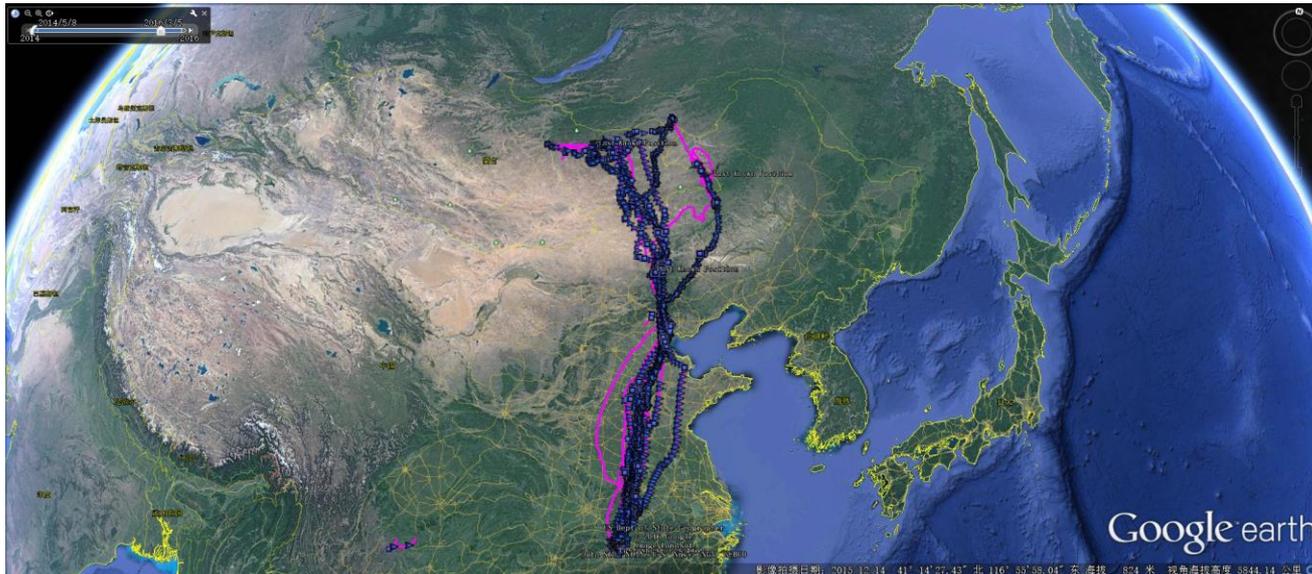
- ERF-UNESCAP
 - Cheonsu Bay
 - DMZ
- IUCN-Ramsar Regional Center - East Asia (RRC-EA)
 - Suncheon Bay



Regional Cooperation on Species Conservation in Northeast Asia

Crane

- Siberian Crane
- Hooded Crane
- White-naped Crane
 - Understanding White-naped Cranes' Migratory Connectivity between Wintering and Breeding Grounds through Satellite Tracking
 - With ICF, MAS, WSCC Mongolia, UNESCAP



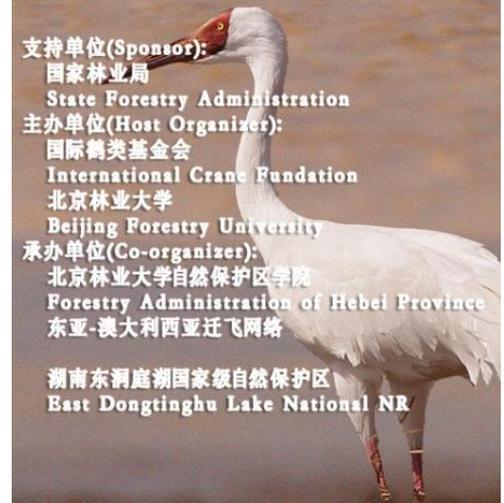
International Workshop on Crane Protection and Sustainable Agriculture

鹤类保护与 可持续农业研讨会

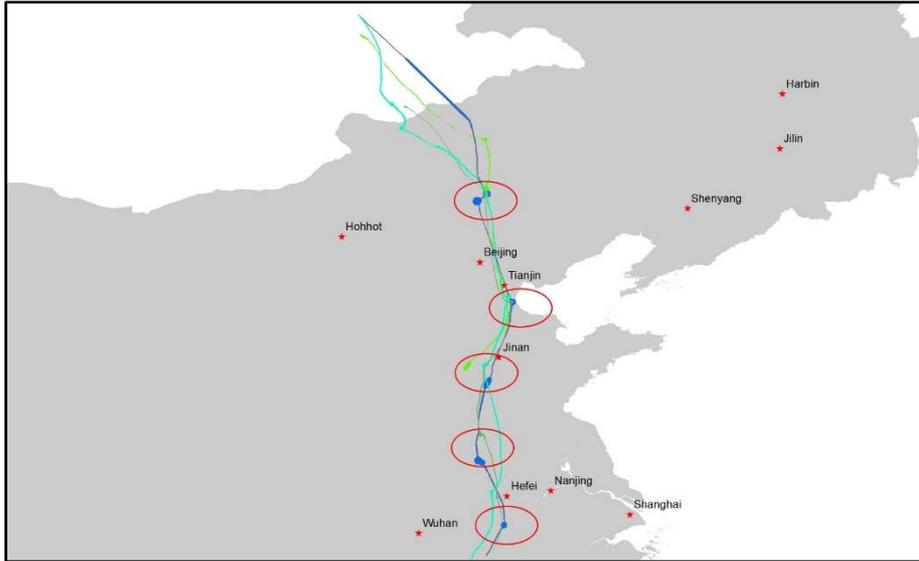
2012.12.3-4 Beijing

支持单位(Sponsor):
国家林业局
State Forestry Administration
主办单位(Host Organizer):
国际鹤类基金会
International Crane Foundation
北京林业大学
Beijing Forestry University
承办单位(Co-organizer):
北京林业大学自然保护区学院
Forestry Administration of Hebei Province
东亚-澳大利西亚迁飞网络

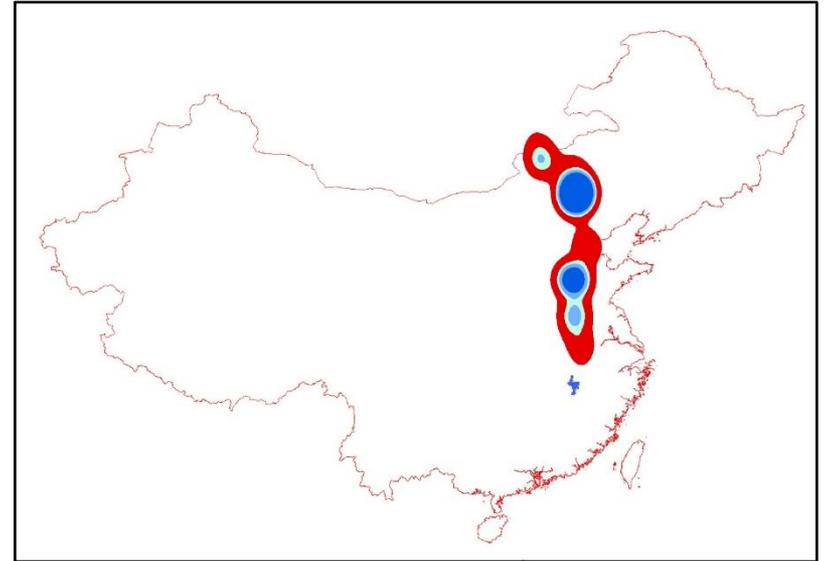
湖南东洞庭湖国家级自然保护区
East Dongtinghu Lake National NR



Plenary Finding (unpublished data)



Important Stopover of WNC



Degree of importance of different Stopover

- It's the main migration route of White-naped Crane western population from central Mongolia via Luanhe river basin (Duolun) to Bohai bay, then go south to Poyang Lake.
- Most of stopover sites of WNC are not under protected.
- More actions are needed to protect the White-naped Crane in China.

Duck

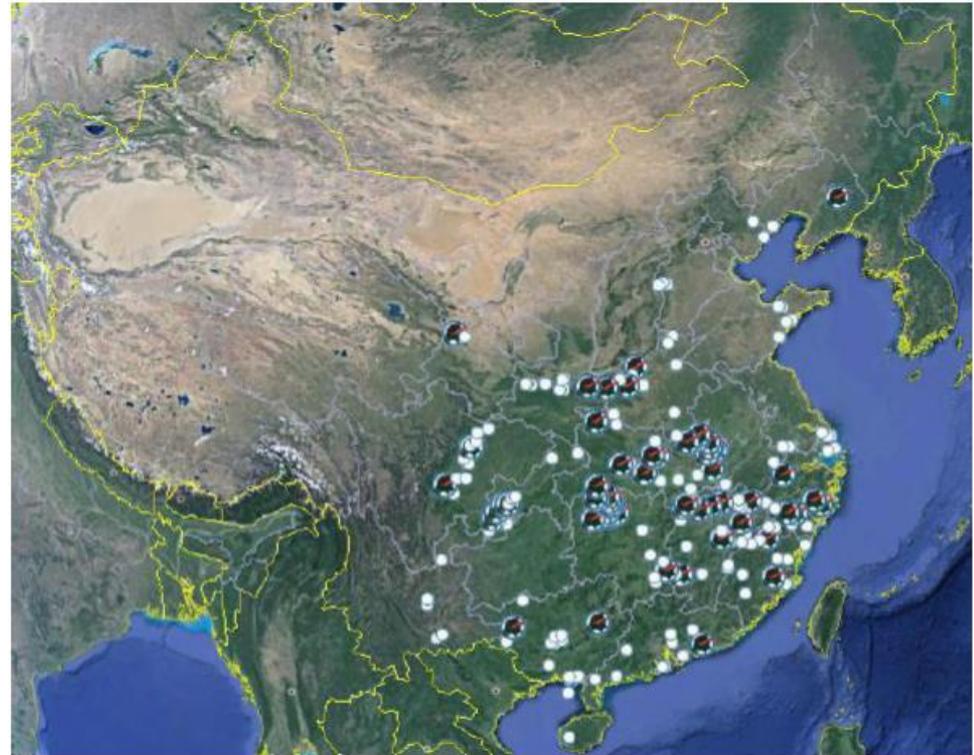
- Scaly-sided Merganser (*Mergus squamatus*)
 - Geolocator & Artificial Boxes for Scaly-Sided Merganser
 - Estimation the Wintering Population Size of the Endangered Scaly-Sided Merganser in China
 - National Survey for Wintering Scaly-Sided Merganser
 - Wintering Habitat Use of Scaly-Sided Merganser



East Asian-Australasian Flyway Partnership
Scaly-sided Merganser Task Force
Chair: Lei Guangchun Member Zeng Qing

Duck

- *Mergus squamatus*



2015-2016 调查点与有中华秋沙鸭记录点的分布图

	2014/2015	2015/2016
Male	140	244
Female & Juvi	301	390
Total	441	634

Duck

- Baer's Pochard (*Mergus squamatus*)
 - Breeding Ecology
 - Population, Distribution and Its Habitat loss

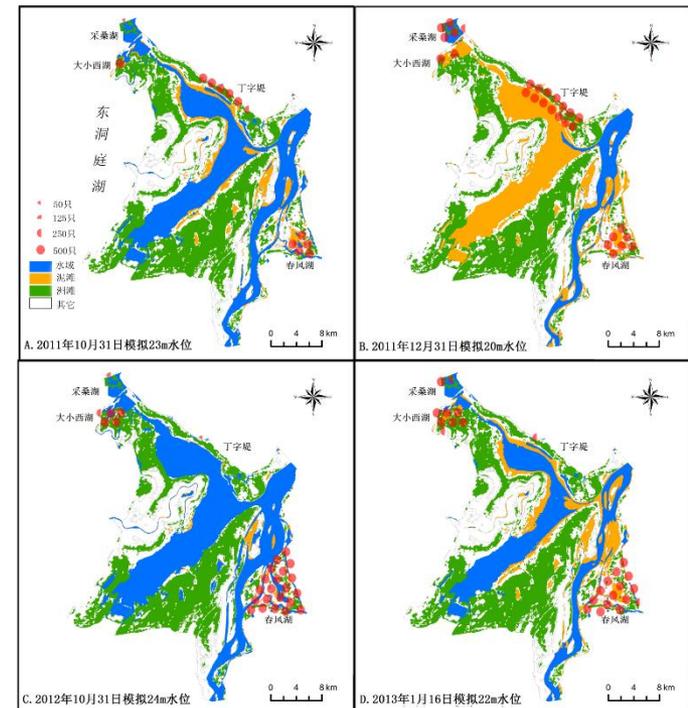


East Asian-Australasian Flyway Partnership
Baer's Pochard Task Force

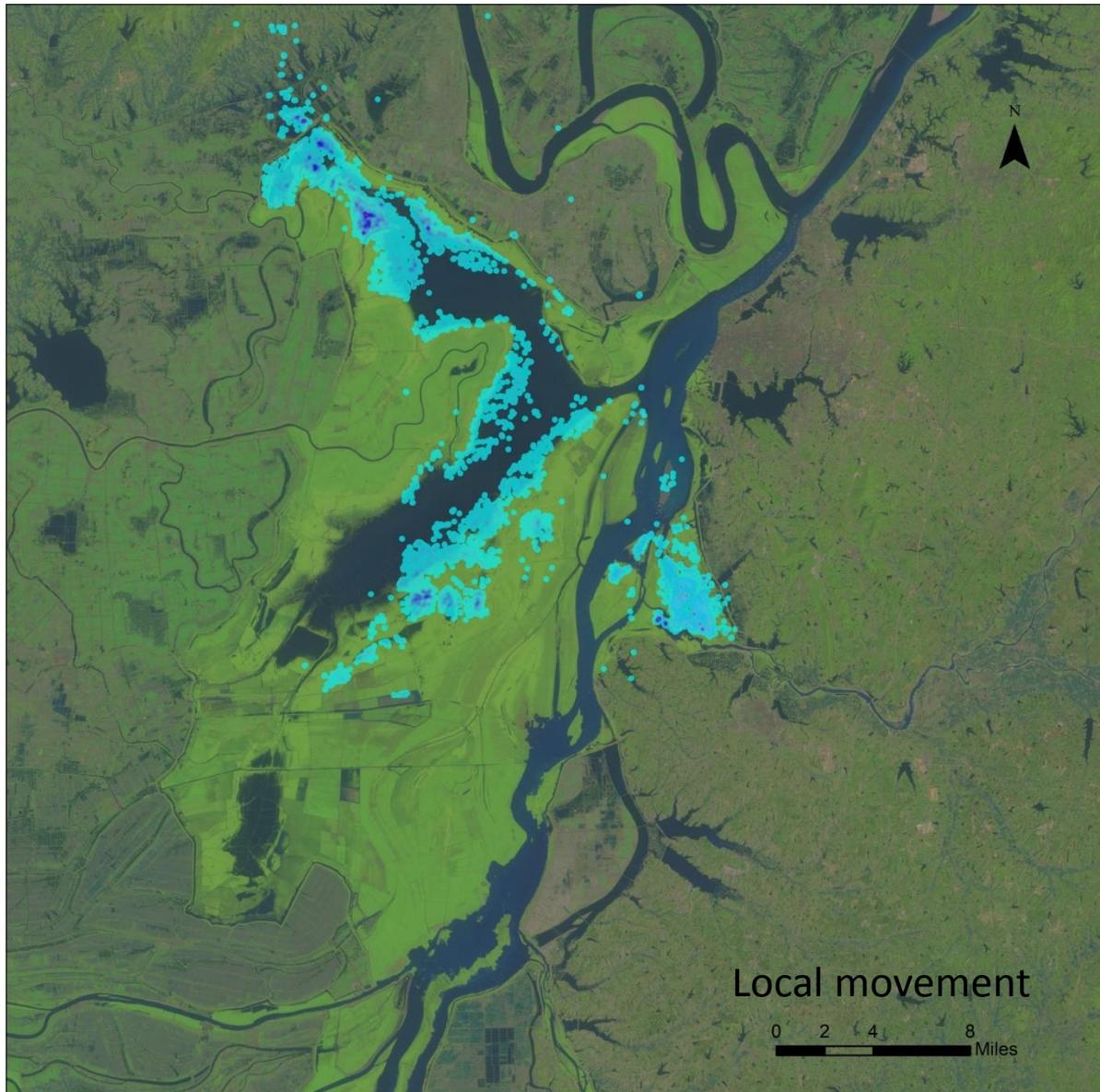
Chair: Ding Changqing Member: Wu Lan, Jia Yifei

Goose

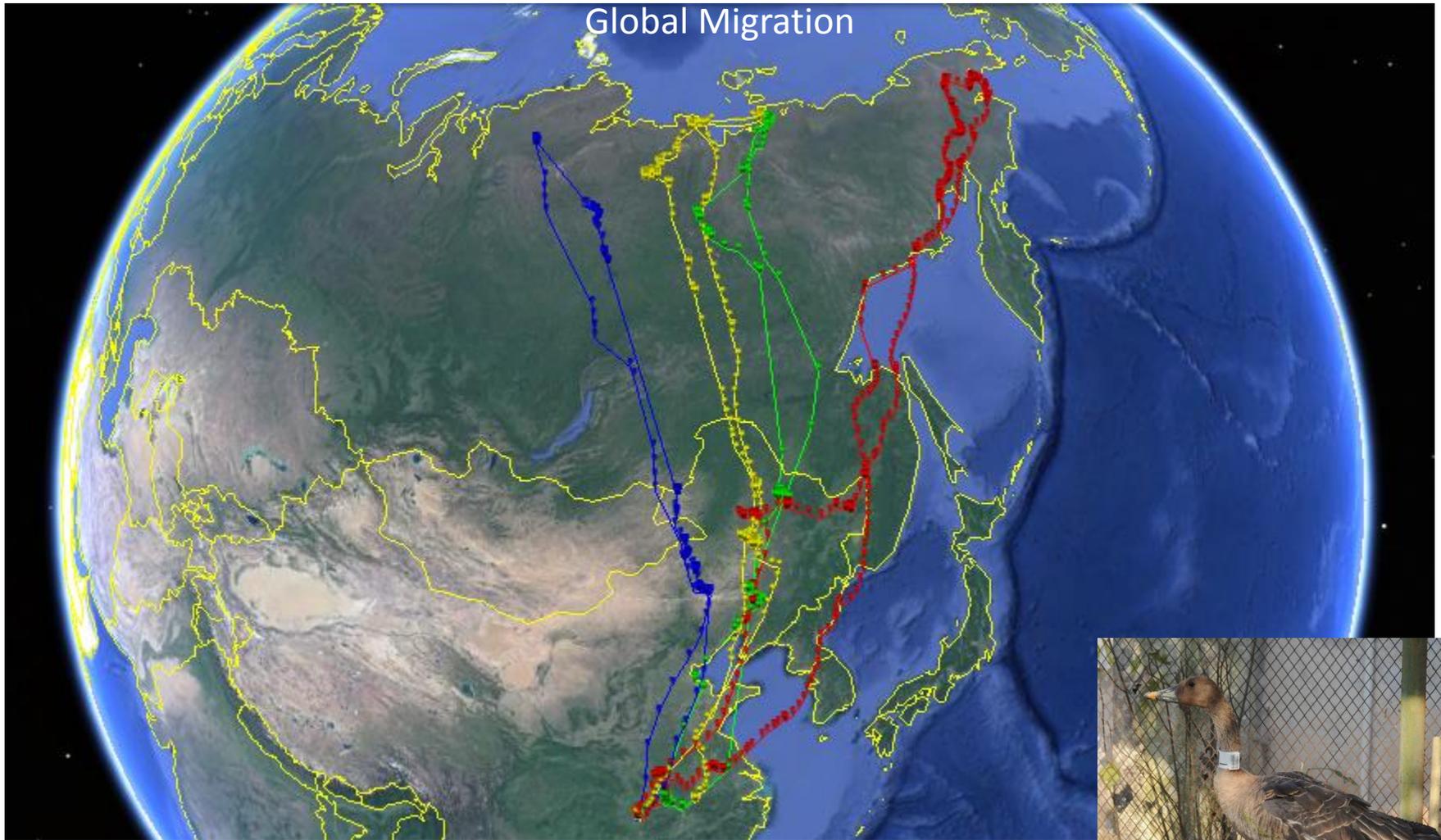
- Lessor White-fronted Goose (*Anser erythropus*)
 - Food resource - Carex and eco-hydrology
 - Species relationship between Bean geese and White-fronted geese
 - Local scale movement and habitat selection
 - Global scale migratory ecology



Goose



Goose



Blue-Bean G, Yellow and Red- Lessor WFG, Green – WFG
38 tracked, 12 flew out of China, 4 returned, 1 killed in Russia





Thank you!
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