

YSLME MPA NETWORKING

WORKSHOP

14-16 January 2019 • Dalian, Liaoning, PR China

Jiangsu Coast: supporting more than Spoon-billed Sandpiper

Jing Li Spoon-billed Sandpiper























Spoon-billed Sandpiper in China

- Conserve the migratory shorebirds on Yellow Sea
- Local NGO since 2008
- Special focus: Spoon-billed Sandpiper and intertidal of Jiangsu province





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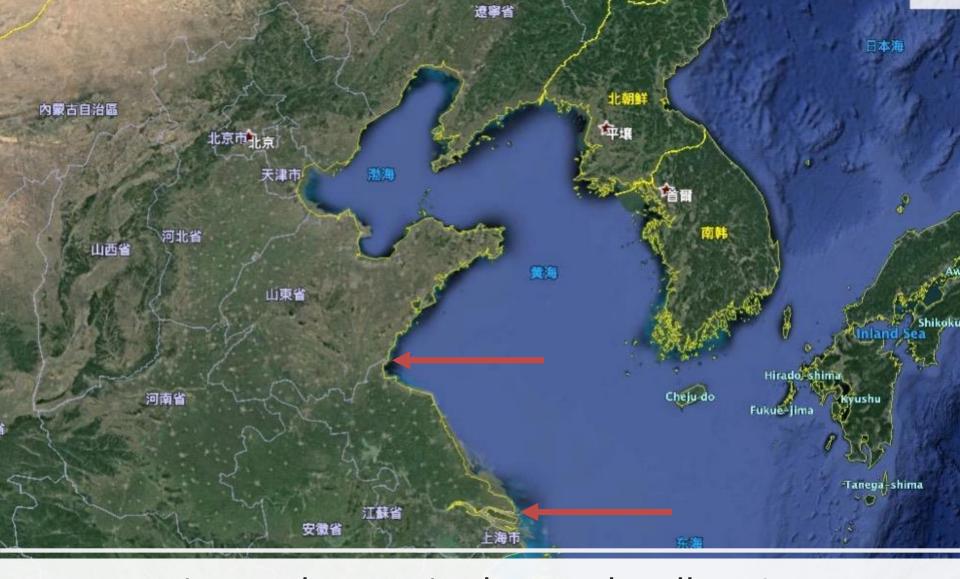




汤正华

李东明





Jiangsu locates in the south Yellow Sea





Spoon-billed Sandpiper

Asian Dowitcher





Preference different for the three sites

Lian Yun Gang

Species	1% criteria
Asian Dowitcher	22,432 97% *
Great Knot	15,000 4% *
Black-tailed Godwit	19,810 20%

Tiaozini+Rudong County

Species	1% criteria
Spoon-billed Sandpiper	225 50%
Nordmann's Greenshank	1100 90% plus

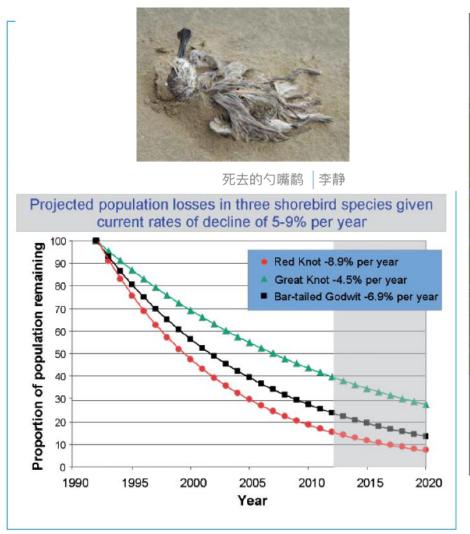
18 out of 43 recorded Species exceeded

1% of their EAAF population **

18 out of 43 recorded Species exceeded

		2011		2012		2013		2014		2015		2016	
		MAX	Month	MAX	Month	MAX	Month	MAX	Month	MAX	Mont h	MAX	Mont h
Spoon-billed Sandpiper	CR	103	Oct	53	Sep	85	Oct	144	Sep	101	Oct	101	Oct
Nordmann's Greenshank	EN	4	Sep	146	Oct	251	Nov	840	Sep	940	Oct	450	Oct
Bar-tailed Godwit	NT	1000	Aug	1438	Aug	804	Sep	200	May	1500	May	4000	Aug
Great Knot	EN	1100	Aug	660	Aug	5124	Jul	1400	Jul	6820	Jul	8526	Jul
Eurasian Curlew	NT	569	Dec	900	Dec	3495	Nov	7800	Oct	4000	Nov	6130	Nov
Yang Z, Lagassé BJ, Xiao H, Jackson MV, Chiang C-Y, Melville DS, Leung KS, Li J, Zhang L, Peng H-B, Gan X, Liu W-L, Ma Z, Choi C-Y. Moult schedule of Spoon-billed Sandpiper Calidris pygmaea and Nordmann's Greenshank Tringa guttifer at a critical staging site in China's Yellow Sea. (Manuscript under review)													

Facts: declined wader population





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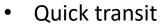




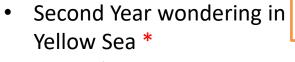


Autumn

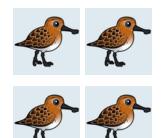
- Arriving at different months
- Max count 225



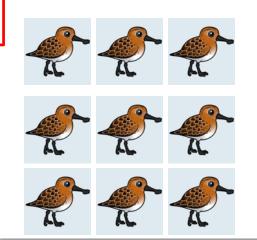
Part in north Yellow Sea, e.g. Lime 01 *



Around 20













Other Key findings outside Jiangsu

- A staging sites in North Korea
 by sat tracked 07 SBS
- The wintering grounds along the coast of Guangdong and Guangxi Province, with concentration in Leizhou Peninsula
- First record of SBS in Indonesia by Sat tracked 07 SBS

Asian Dowitcher in migration







- Endemic in the Flyway
- Last population estimation was ten years ago
- A high concentrated population during northward migraion in Lian
 Yun Gang Coast 22,432 on May 13, 2019

Results

Waterbird species and abundance

Overall, we recorded at least 47 species of waterbirds, including globally threatened Spotted Greenshank *Tringa guttifer*, Great Knot *Calidris tenuirostris*, Far Eastern Curlew *Numenius madagascariensis* and Relict Gull *Ichthyaetus relictus*. Thirty of the 47 species were shorebirds; a conservative estimate of the shorebird numbers was 109,028 individuals, accounting for almost 98% of all waterbirds recorded. The maximum single-day count of ten species exceeded 1% of their EAAF population (Table 1).

Table 1. Species whose maximum single-day count exceeded 1% of their EAAF population

Species	Number	% EAAF	Date	
		population	recorded	
Black-tailed Godwit <i>Limosa limosa</i>	3,500	2.2%	10 May	
Bar-tailed Godwit <i>Limosa lapponica</i>	2,121	1.3%	12 May	
Terek Sandpiper Xenus cinereus	1,400	2.8%	10 May	
Asian Dowitcher Limnodromus semipalmatus	22,432	97.5%	13 May	
Sharp-tailed Sandpiper Calidris acuminata	11,059	6.9%	12 May	
Dunlin Calidris alpina	31,796	3.2%	12 May	
Broad-billed Sandpiper Calidris falcinellus	5,530	5.5%	12 May	
Pied Avocet Recurvirostra avosetta	4,260	4.3%	12 May	
Grey Plover <i>Pluvialis squatarola</i>	3,802	2.9%	12 May	
Lesser Sand Plover Charadrius mongolus	3,110	15.6%	12 May	

Yang etal. 2019 Waterbird surveys at Lianyungang, Jiangsu Province in China, discovered a significant number of Asian Dowitchers *Limnodromus semipalmatus* (unpublished)

Records in last 5 years at Lian Yun Gang

Date	Date	Number of Asian Dowitcher	habitat
2019	April 20	414	Qingkou River mouth
2018	May 7	7,730	Qingkou River mouth
2017	May 13	3,000	Qingkou River mouth
	April 16	500	
2016	May 7	3,000	Qingkou River mouth
2015	Spring data NA	NA	
2014	May 16	980	Qingkou River mouth
	April 10	1001	
2013	May 12	2800	Qingkou River mouth

Why there is big data gaps over years?



bioRxiv preprint first posted online Mar. 9, 2019; doi: http://dx.doi.org/10.1101/570556. The copyright holder for this preprint (which was not peer-reviewed) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under a CC-BY-NC-ND 4.0 International license.

Conserving unprotected important coastal habitats in the Yellow Sea: shorebird occurrence, distribution and food resources at Lianyungang

Ying-Chi Chan^{a,b}*, He-Bo Peng^{a,b}, Yong-Xiang Han^c, Sheena Suet-Wah Chung^b, Jing Li^d, Lin Zhang^d & Theunis Piersma^{a,b}

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We recorded 18 shorebird species of numbers exceeded 1% of the Flyway populations, which is the second-highest among the >300 shorebird Coastal wetlands a Sites in East Asia.

Abstract

Chan Y.-C., Peng H.-B., Han Y.-X., Chung S.S.-W., Li J., Zhang L. & Piersma, T. (2019) Conserving unprotected important coastal habitats in the Yellow Sea: shorebird occurrence, distribution and food resources at Lianyungang. Global

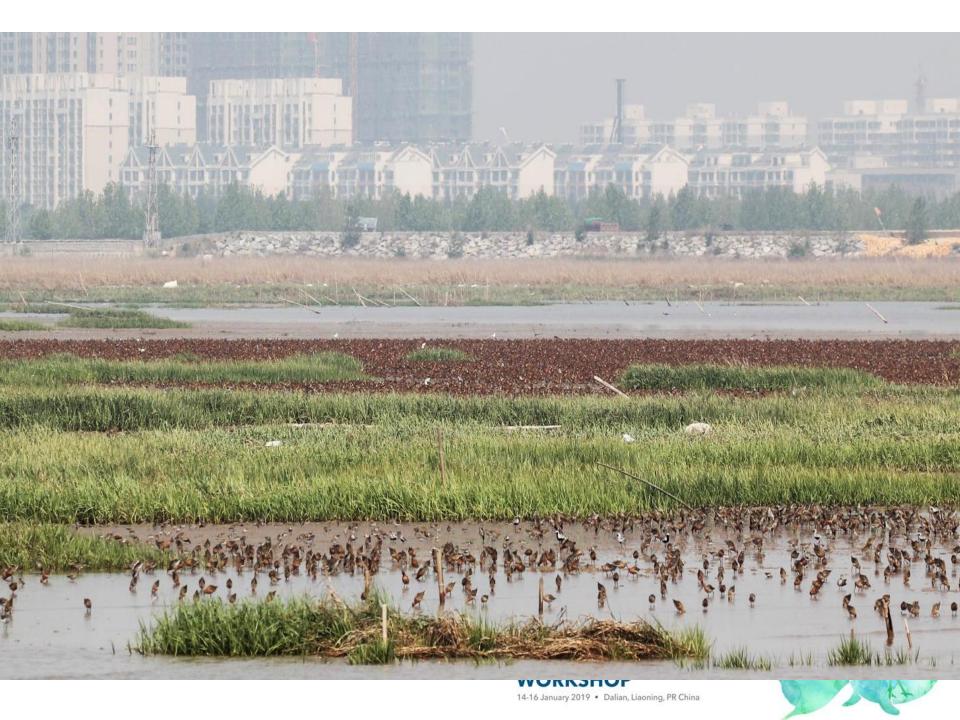
Ecology and Conservation 20. doi: 10.1016/j.gecco.2019.e00724





Regular counts by one people since 2008





2019 Autumn: more to discover

- Asian Dowitcher: Ration youngsters & Adults
- Black-tailed Godwit: largest flag records ever
- Great Knot: flags and a population of 14680
- The 15 km travel distance for staging
 - Three estuaries
 - One high tide roost







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No.	Identification	Nominated	Buffer (~)	Total (ha.)				
N	ligratory bird Sanctuaries along the c Bohai Gulf of China		Yellow	Sea-				
4	Dallan Halbin-Lushunkou National Park, Liaoning	12,103	10,070	26,773				
5	Liaohe River Estuary National Nature Reserve, Liaoning	47,913	32,087	80,000				
6	Shi River Estuary, Shanhaiguan, Qinhuangdao, Hebei	127	0	127				
7	Beidaihe-Geziwo/Xin River Estuary, Hebei	7,887	0	7,887				
8	Golden Coast Nature Reserve, Beidaihe New District, Hebei	25,213	3,801	29,014				
9	Luannan-Zuidong Coastal Wetland, Hebei	6,806	4,219	11,025				
10	Caofeidian Wetland, Hebei	5,007	5,074	10,081				
11	Nandagang Wetland in Cangzhou, Hebei	4,603	2,897	7,500				
12	Yellow River Delta National Nature Reserve,	•						
13	Dongsha Experimental zone of Jiangsu Yandas well as the Tiaozini area (YS-1) Phrase nor Phrase							
	The middle section of Jiangsu Yancheng Nati	04.540		04.540				
15	Dongtai-Rudong Coast, Jiangsu	21,548	0	21,548				
16	Qidong Yangtze River Estuary Nature Reserve, Jiangsu	14,959	5,259	20,218				
	Total area (ha.)		280,391	729,364				
	Total area, Phase I	188,643	80,056	268,699				
	Total area, Phase II	260,330	200,335	460,665				

Table 1: Components of proposed Migratory Bird Sanctuaries along the Coast of Yellow Sea-Bohai Gulf of China (Phases I and II).

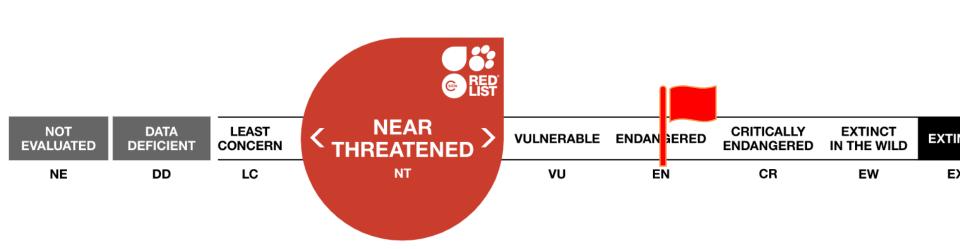
Nominate Lian Yun Gang into 2nd list

Asian Dowitcher

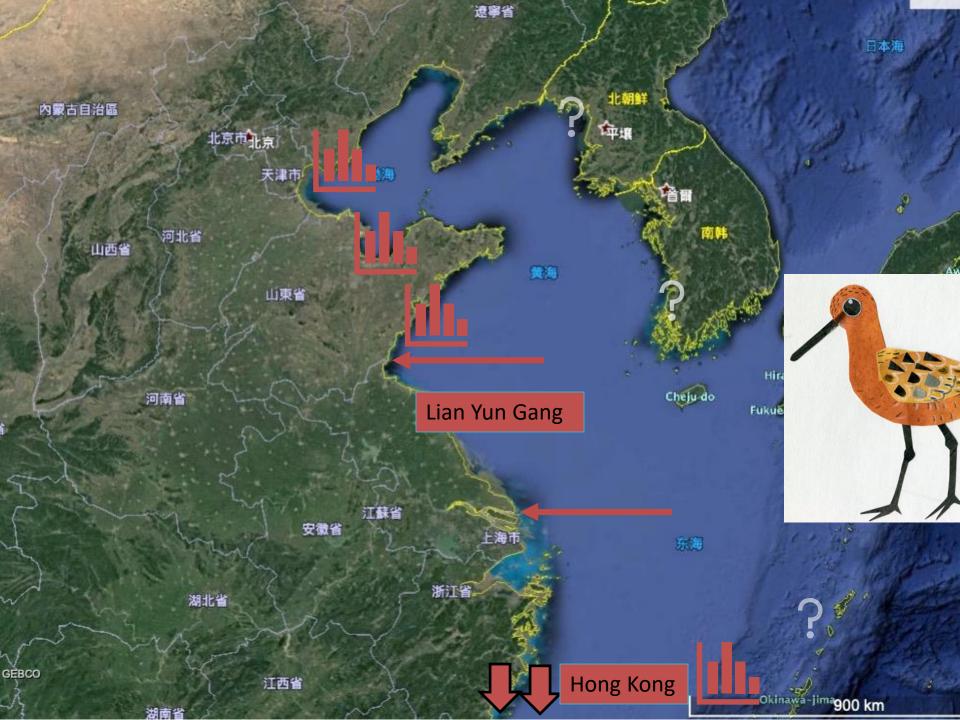
Limnodromus semipalmatus

CITATION

BirdLife International 2016. *Limnodromus semipalmatus*. *The IUCN Red List of Threatened Species* 2016: e.T22693351A93397892. http://dx.doi.org/10.2305/IUCN.UK.2016-2016: 3.RLTS.T22693351A93397892.en. Downloaded on 03 January 2020.



Up list the status of Asian Dowitcher to EN





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北京林业大学



2020年联合国生物多样性大会

COP 15 - CP/MOP10-NP/MOP4

生态文明: 共建地球生命共同体

中国·昆明



水滴汇聚成就生物多样保护

感谢YSLME

给民间NGO更多成长空间





