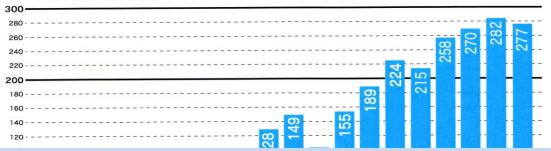
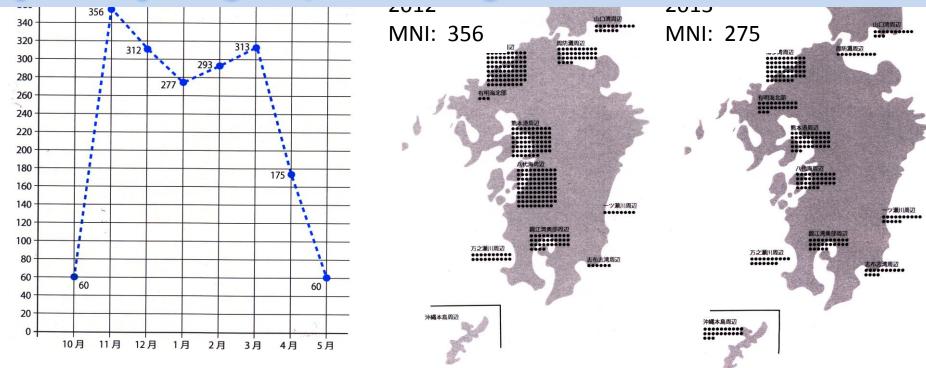
Population survey by Japan BFS Network

▼日本の総羽数の変化(香港バードウォッチングソサエティの資料より)



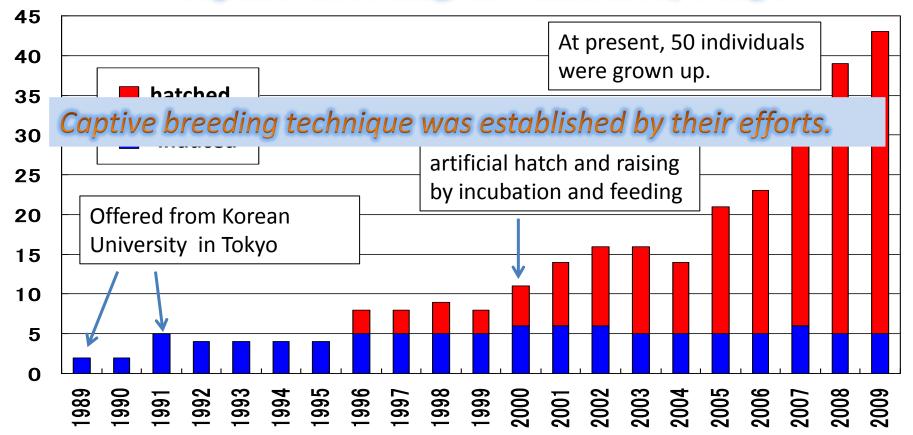
More than 200 bird-watchers join to the BFS monitoring survey.

To find new feeding sites, collaborating with local Wildbird members





Captive Breeding at Tama Zoo, Tokyo

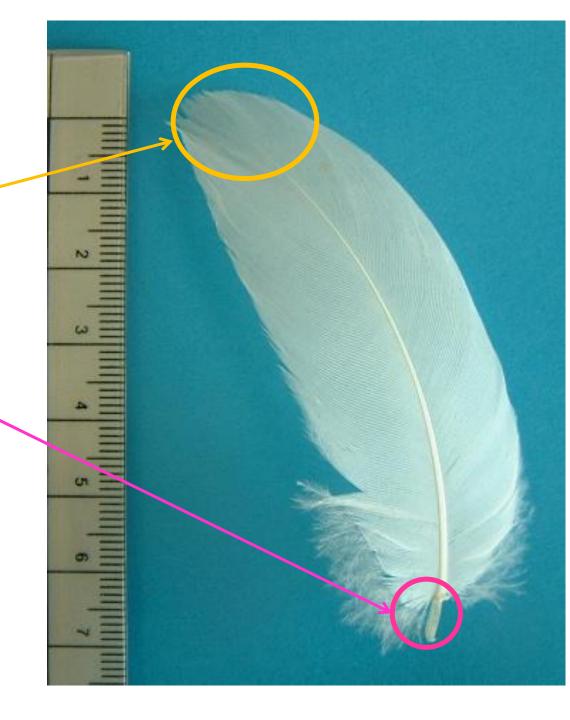




Using fallen feathers,

Stable Isotope Analysis

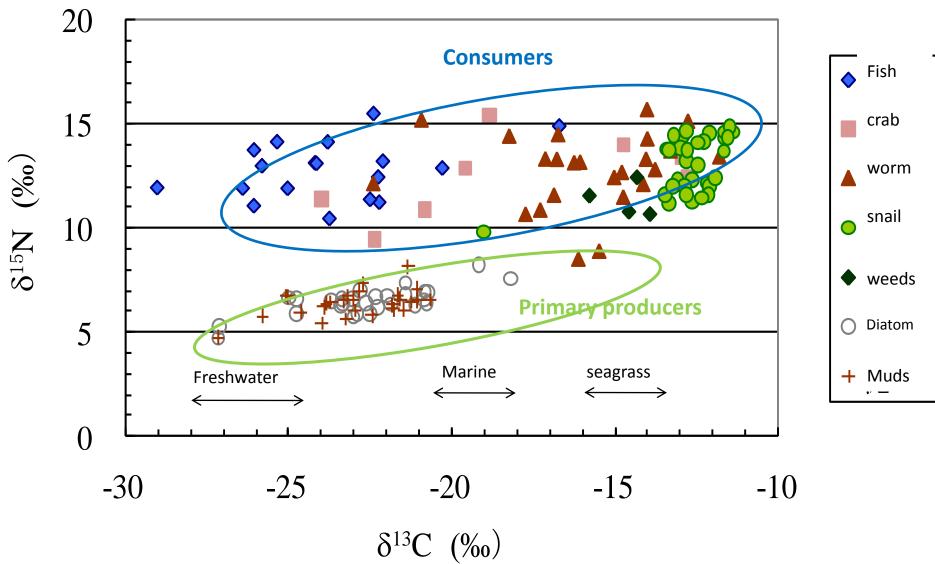
Mitochondrial DNA Analysis



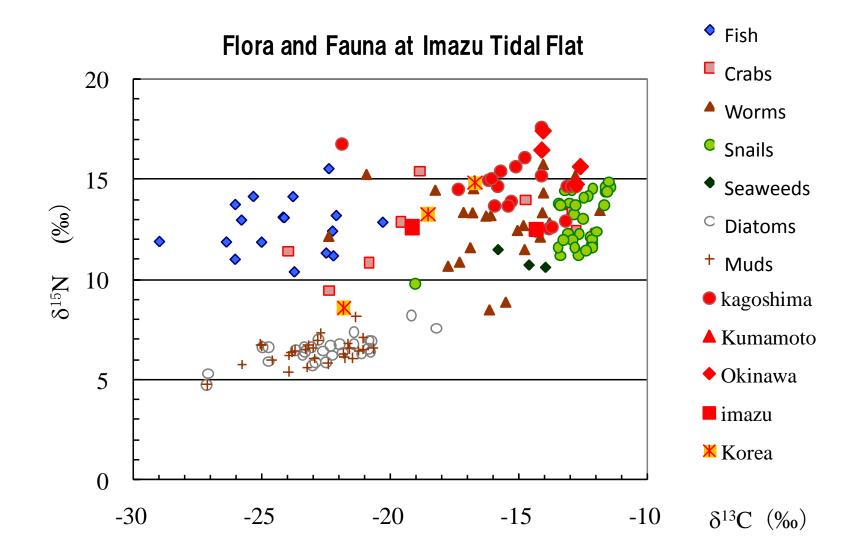
Species identification by mitochondrial cyt- b region

	07kh42		ACCACCTATTGCTTAACCCATATACTCTCCTCCAAACCCTCCCACACCAAGCCCACACT
BFS	08kh01		A
	07kh08		
	07kh09		
	07kh12		
Samples	07kh13		
	07kh15		A
	07kh16		
	07kh17		A
	07kh18		
	07kh19		A
	07kh21	Egret	C.TC.CACT.TCTC.C.TCTCCA.GCACA.
	07kh22		A
	07kh25		A
References	07kh28	Anas platyrhynchos	CAACA.C.CCATCCCCCC.CCCTCG.T.TTA.AG.TT.
	07kh29		A
	Platalea_	leucorodia	CCCTAA
	Threskior	nis_spinicollis	CC.CCAT.CTTTTC.TTTAT.TA
	Egretta_e	ulophotes(DDBJ)	C.TC.CACT.TGCTCC.TCCTCA.ACA.
	Ardea_cin	erea(DDBJ)	CC.CCCC.CCTCTTC.C.TCCCTC.G.TT.G.TCAC
	Ciconia_b	oyciana(DDBJ)	TCGCACCC.TC.CCCTTCTATC.C.C
	Anas_crec	ca(DDBJ)	CAATA.C.CCA.CCCCCC.CCGCTCG.TG.T.G.A.AG.TTC

A Model of Isotope Analysis Fauna and Flora at the Imazu Tidal Flats

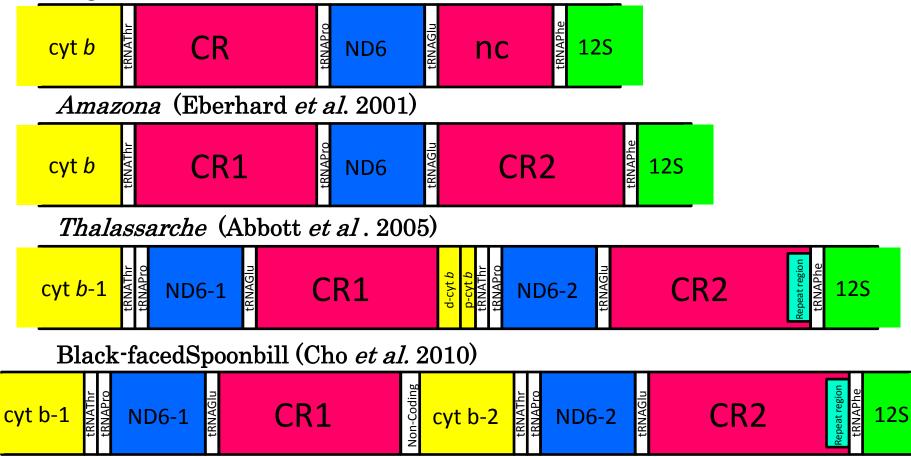


BFS feathers

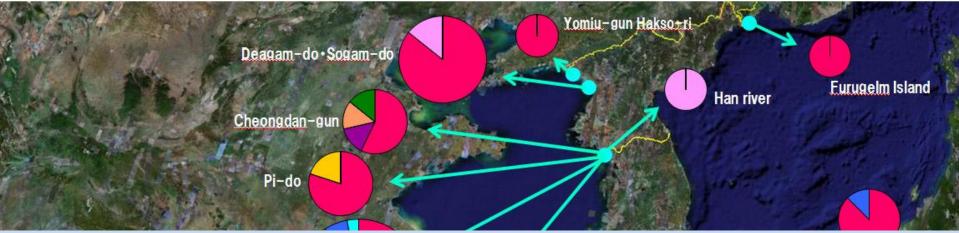


Structure Analysis of mitochondrial DNA revealed tandem repeats between cytochrome b and control regions

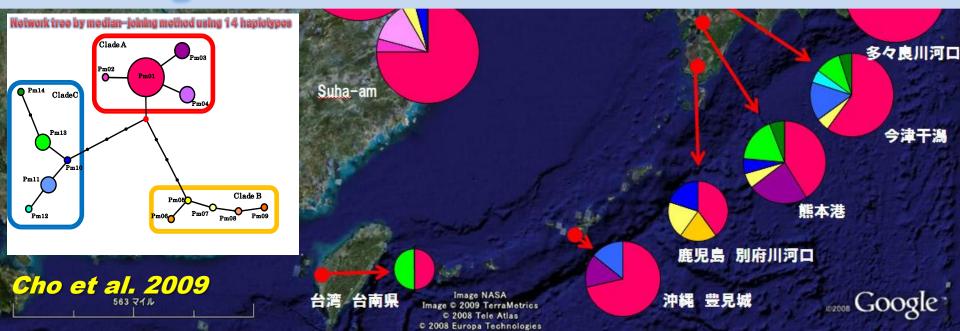
Eagle (Mindell et al. 1998)



mtDNA analysis using fallen feathers



Because of the dominant haplotype, genetic diversity of BFS is not so high as cranes.



Solar-GPS satellite tracking



GCOEアジア保全生態学 九州大学·東京大学 Education, Research & Conservation

https://sites.google.com/a/conservationecology.asia/main/coreProjects/tracking/bfsb2011

•Satellite tracking for Black-faced Spoonbill project 2009-2013



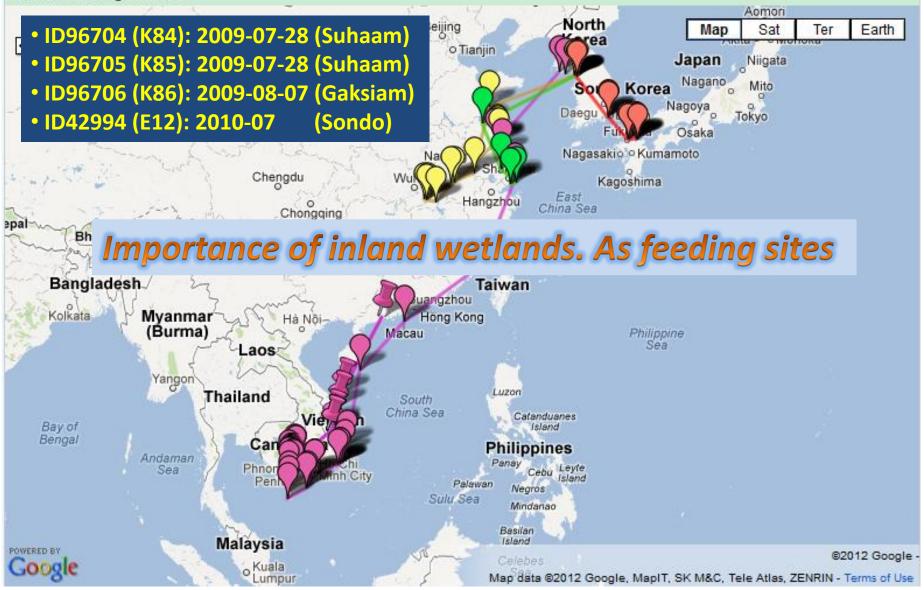




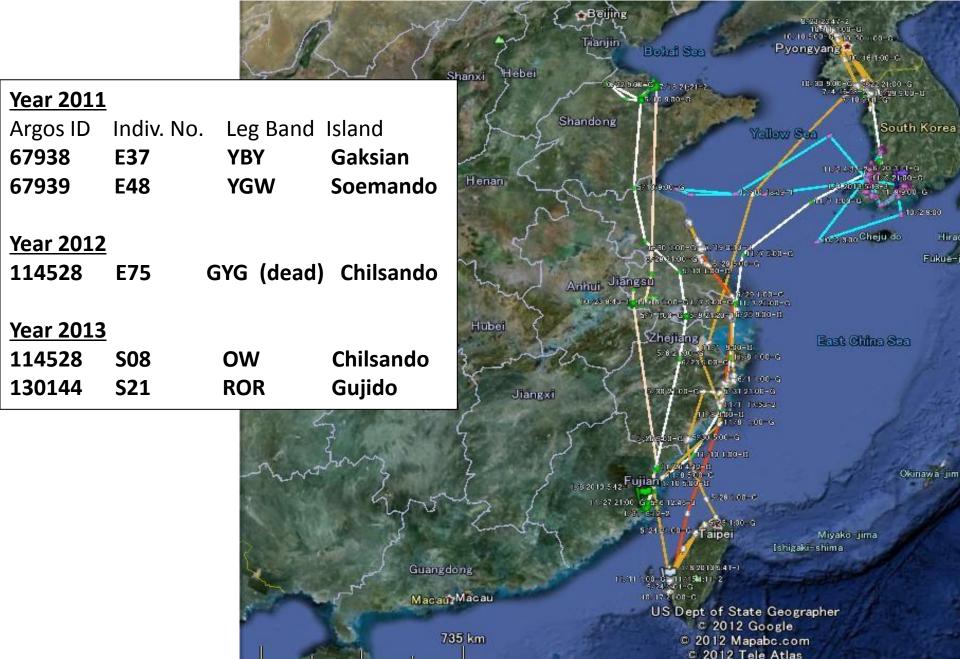
Copyright: T. Okabe (Nishinippon Shinbun)

4 individuals attached during 2009& 2010

Satellite tracking of BFSB-all



5 individuals attached during 20011& 2013



E37 (ID 67938) Gaksian from 1st July, 2011



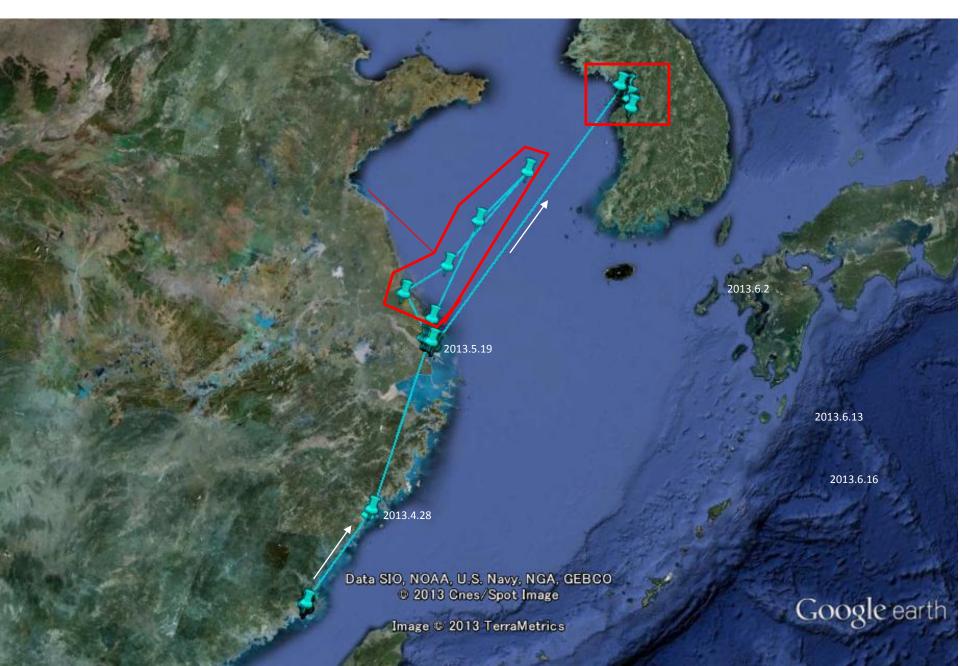
BFS observed in North Korea

Center for Biodiversity, National Institute, of Science Academy, D.P.R. Korea.

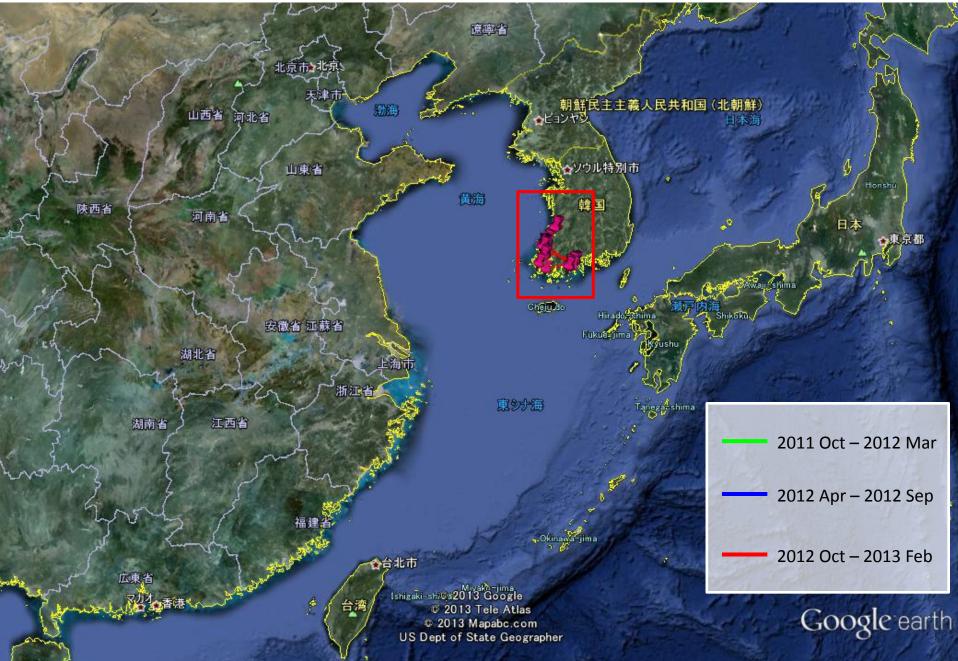
E48 # stayed at Shandong during the summer.



E48 </ > Feturned to his breeding site in 2013



E75 (ID 67939)





4 individuals are active

				E37		
Year 2011				Letter of Mexicol		
Argos ID	Indiv. No.	-		8/12 12h 7/06 0h 7/15 6h 7/06 6h6/25 6h 6/27 0h 6/24 6h 6/24 12h		
67938	E37	YBY	Gaksian	6/27 0h 6/24 6h 6/24 12h		
67939	E48	YGW	Soemando			
Year 2013						
114528	S08	OW	Chilsando	A CONTRACTOR OF		
130144	S21	ROR	Gujido			
				SO8 Data SIO, NOAA, U.S. Navy, NGA, GEBCO		

001014-

Cheers ! Bon voyage !

S21 attached on July, 2013 at Gujido, Yeonpyeong do

