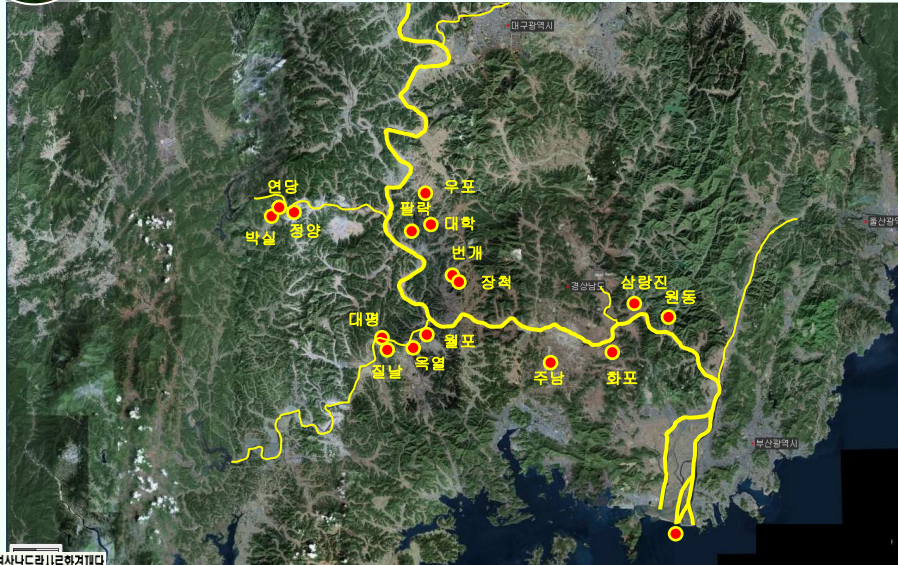






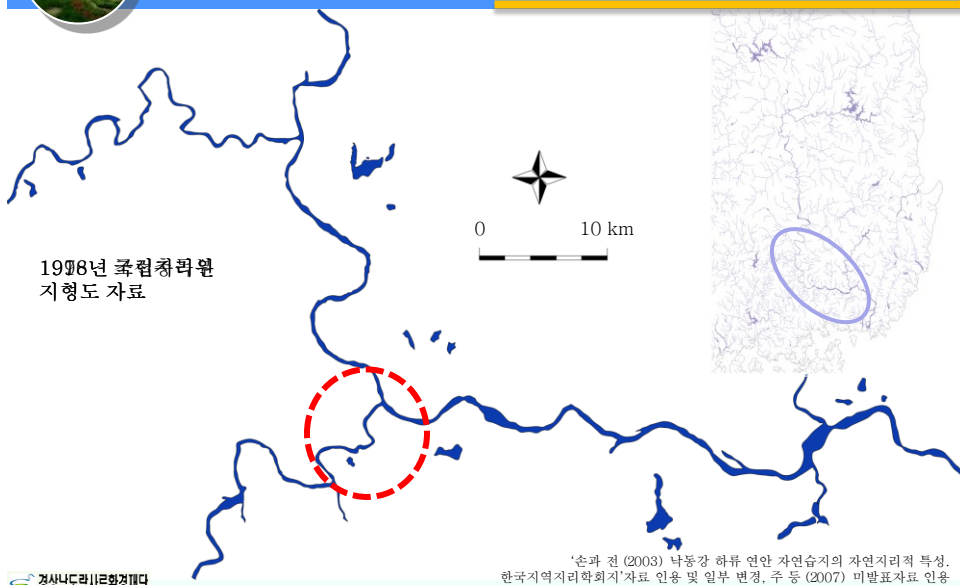
Major wetland distribution



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Wetland loss in Nakdong river basin

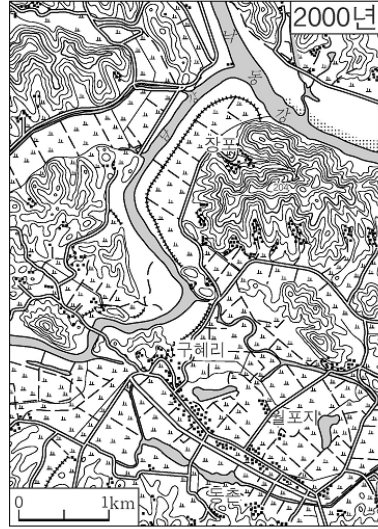


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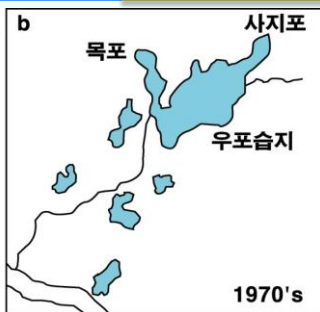
'손과 전 (2003) 낙동강 하류 연안 자연습지의 자연지리적 특성, 한국지역지리학회지' 자료 인용 및 일부 변경, 주 등 (2007) 미발표자료 인용



Loss of Riverine Wetland



Upo wetland

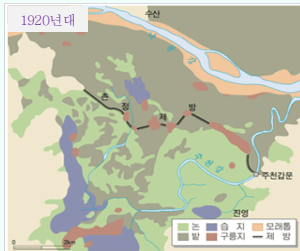


1. Total surface area: about 2.4 km²
2. Mean depth: about 1 m
3. Natural Ecosystem Conservation Area (1997)
4. 2nd Ramsar site (1998) in S. Korea,



Changes of Junam Reservoir

Changes of Junam Reservoir



가창오리(Baikal Teal)



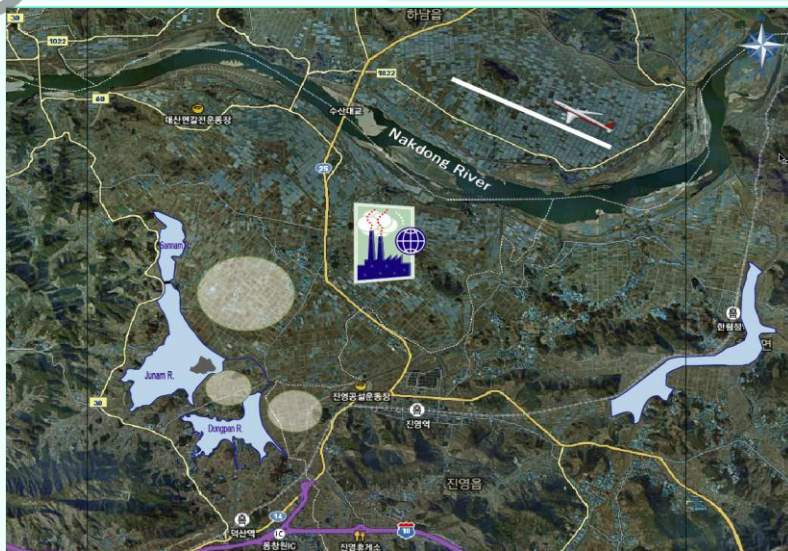
재두루미(White-naped Crane)



노랑부리저어새(Eurasian Spoonbill)



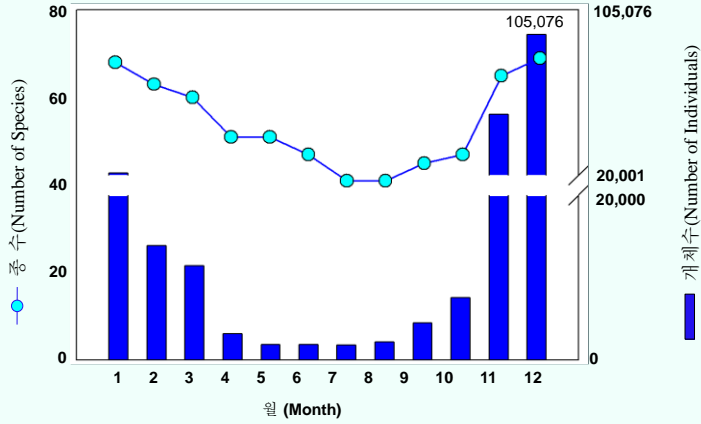
Junam Reservoir and Hwapo Wetland





Junam Reservoir

Bird Monitoring in Junam R.(2008)



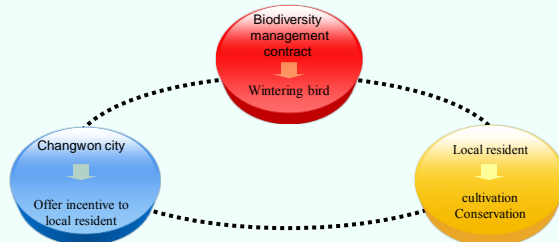
Biodiversity management Contract

▶ Purpose

- Local government make contract with local resident to enhancing the biodiversity
- Local and central government offer incentive to local resident

▶ Project contents

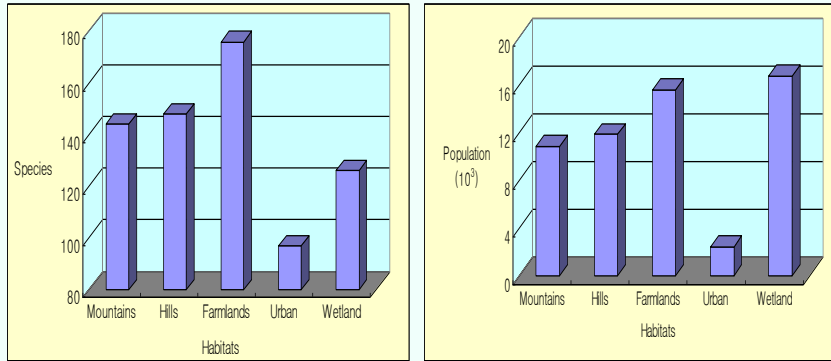
- cultivation contract : planting barley in winter for waterbird food(Goose, Ducks)
- conservation contract : spreading rice straw, winter-flooded rice field





Biodiversity management Contract

Rationale for BMC (Biodiversity Management Contract)



Species and population distribution of birds in Korea

MoE Monitoring period : June to July, 2005



Biodiversity management Contract

BMC(Biodiversity Management Contract)

4 methods of BMC

1. Winter barley cultivation : wintering waterfowl food sources
2. Spreading rice straw : wintering waterfowl food sources
3. Non harvesting rice : wintering waterfowl food sources
4. Winter-flooded rice field : wintering waterfowl roosting ground





Biodiversity management Contract

Year	Participation of Local Government	Payment (US \$)				Area (ha)
		Total	Nation	Province	City /County	
2002	3	201,000	41,000	60,000	100,000	52.5
2003	5	380,000	114,000	60,000	206,000	99.2
2004	9	447,000	134,000	60,000	253,000	122.9
2005	10	447,000	134,000	93,900	219,100	136
2006	14	470,000	141,000	165,000	164,000	136
2007	16	547,000	164,000	192,000	191,000	146
2008	19	652,000	196,000	227,000	229,000	314
Total	19	3,144,000	924,000	857,900	1,362,100	1,006.6



Biodiversity management Contract

Wetlands	Methods of BMC				Period
	WBC	NHR	SRS	WfRF	
Junam Reservoir	0.333 \$/m ²	-	0.046 \$/m ²	0.060 \$/m ²	1999 ~
Nakdong River Estuary	0.400 \$/m ²	0.879 \$/m ²	0.045 \$/m ²	0.059 \$/m ²	2007 ~
Upo Wetland	0.200 \$/m ²	-	0.046 \$/m ²	0.060 \$/m ²	2008 ~

Junam Reservoir; Chanwon City, 2008
 Nakdong River Estuary; Busan City, 2007
 Upo Wetland; Changnyung County, 2008

WBC; Winter barley cultivation
 NHR; Non harvesting rice
 SRS; Spreading rice straw
 WfRF; Winter-flooded rice field



Biodiversity management Contract



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life environmental agriculture in Gosung County

● 생명환경농업이란?

자연생태계를 파괴하는 죽음환경의 관행농업에서 탈피하여
자연생태계의 모든 개체가 살아 있는 생명환경에서 이루어지는 농업

- 토착미생물을 활용하여 흙의 되살림 자연생태계 복원
- 합성농약, 제초제, 화학비료, 항생제 미사용 국토의 보전
- 각종 농자재 농민이 직접 생산 안전먹거리 생산
- 과학이 있는 농민경영 주체 국민건강증진
- 저비용 다수확 농가소득 증대 과학이 있는 농민경영 주체

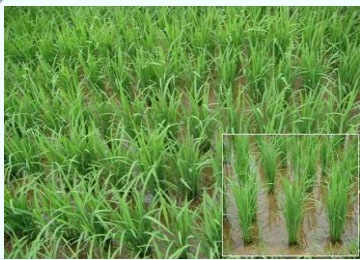
● 생명환경농업의 필요성



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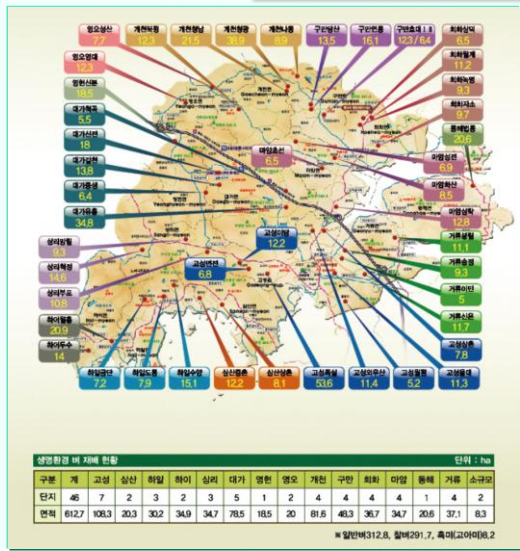
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further vision

