

SAVE International

SPOONBILL ACTION VOLUNTARY ECHO



Fiona Cundy
UC Berkeley Symposium
October 2011

it all started with a bird



Platalea minor

Black-faced Spoonbill

FACTS

Worldwide

status:

Endangered

Class:

Aves

Order:

Ciconiiformes

Family:

Threskiornithidae

Subfamily:

Plataleinae

Genus / Species:

Platalea minor

Estimated

Population:

2,300

DESCRIPTION

Black-faced Spoonbills are long-legged, long-necked wading birds that resemble egrets. Their elegant feathers are snow white most of the year, but develop a shaggy, golden-yellow crest and breast patch in the summer breeding season. Their legs, feet and toes are jet-black; faces are black and bare around the eyes and across the forehead. Their black, elongated beaks gradually narrow, then abruptly flare out into a flattened disk with a nail at the tip.

CHARACTERISTICS

Length: 27-29 in (70-75 cm)

Weight: Unknown

Clutch size: 3-5 eggs

Incubation: 21-25 days

Diet: Small fishes, crustaceans, insects, mollusks, occasional plant material

Habitat: Wetlands, marine estuaries

Range: Spoonbills breed in North and South Korea, China and Russia; and migrate to winter in Japan, Taiwan, Hong Kong, Vietnam, and the Philippines.

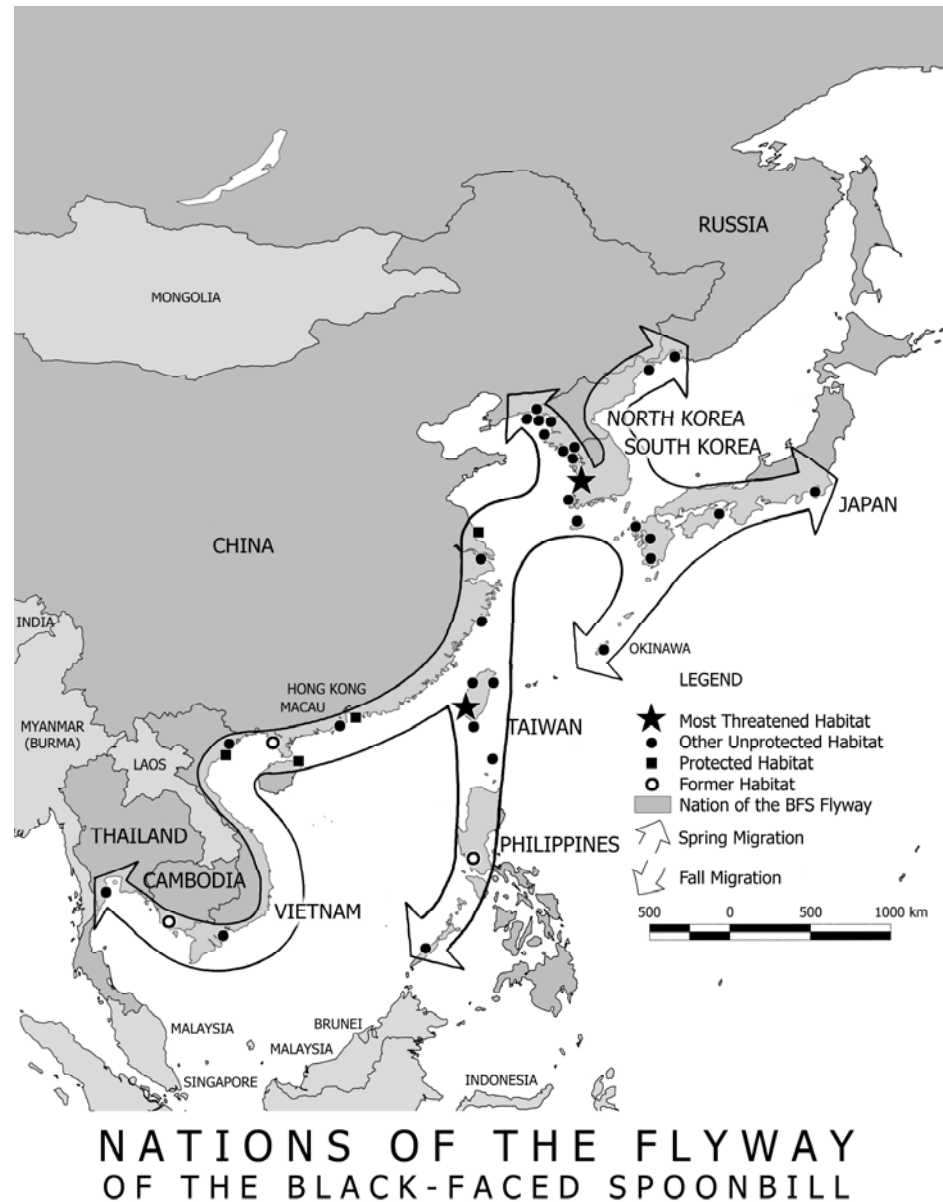
CURRENT STATUS

Black-faced Spoonbills are the rarest, and least-studied, spoonbills in the world. They have a global population of around 2,000. These birds nest on cliffs with gulls and other seabirds. The only known breeding colonies are on a few small, rocky islands off the coast of the Demilitarized Zone between North and South Korea and China; in the adjacent province of Liaoning in China; and at Furugelm Island (Russia).

migratory route



The black-faced spoonbill lives and migrates primarily along the East Asian - Australasian Flyway, in North and South Korea, Japan, Taiwan, coastal China, Hong Kong, Macau, Vietnam, and the Philippines.

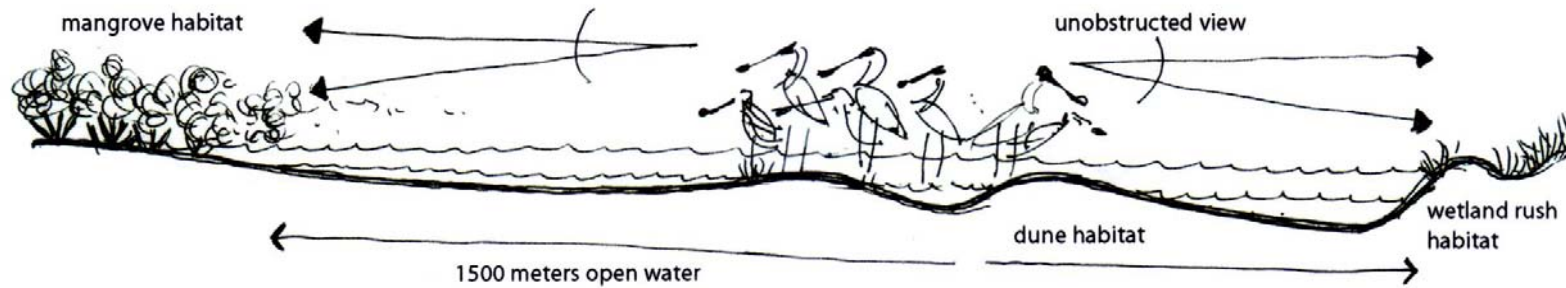
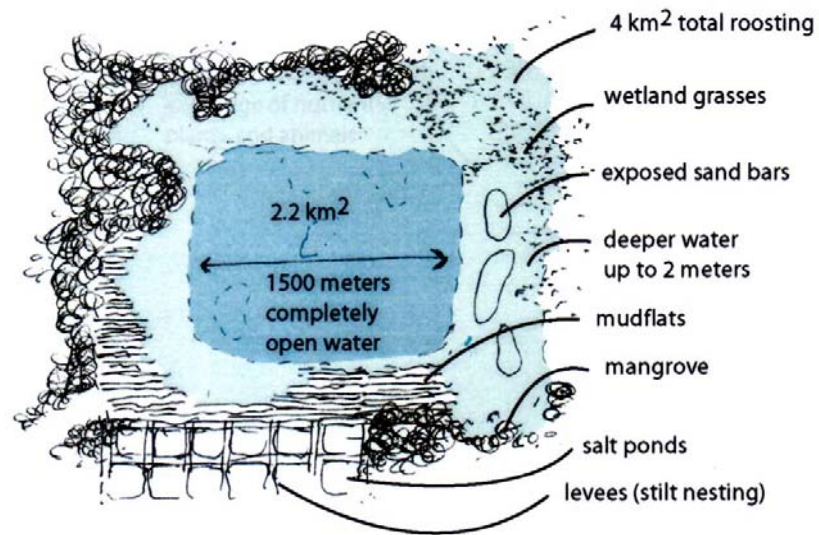
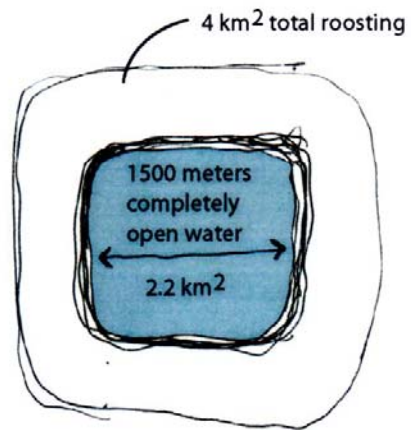


beginnings in Taiwan



- 1987 Chiku Development Plan - industrial park announced
- 1994 300 Black-faced Spoonbill world population
- 1997 Randy Hester goes to Taiwan, joint studio with National Taiwan University
- 1997 SAVE forms

geometries



stepping stone habitat

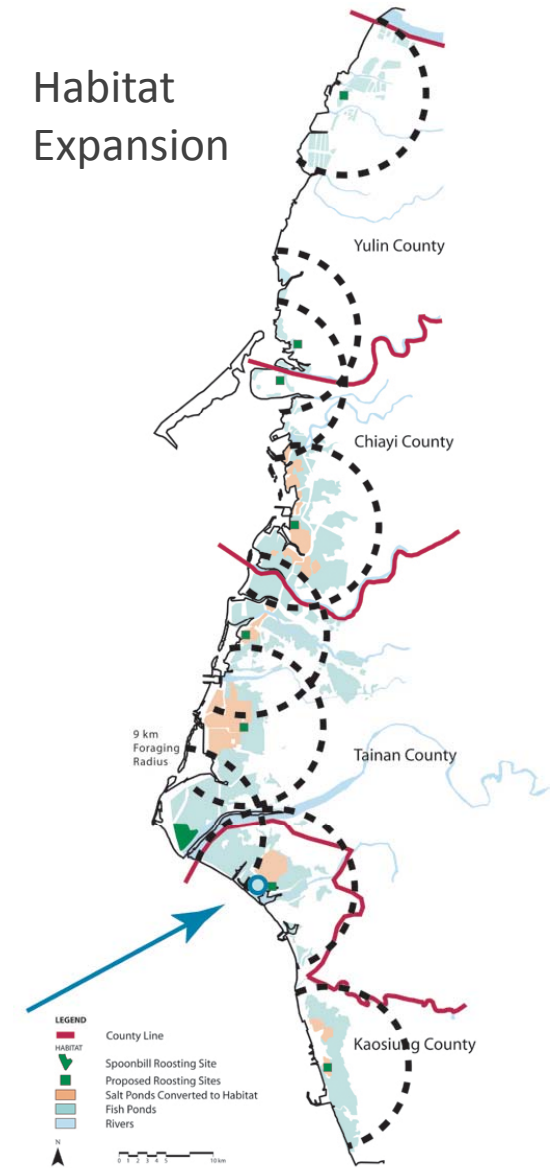
Existing Conditions



Population Projections

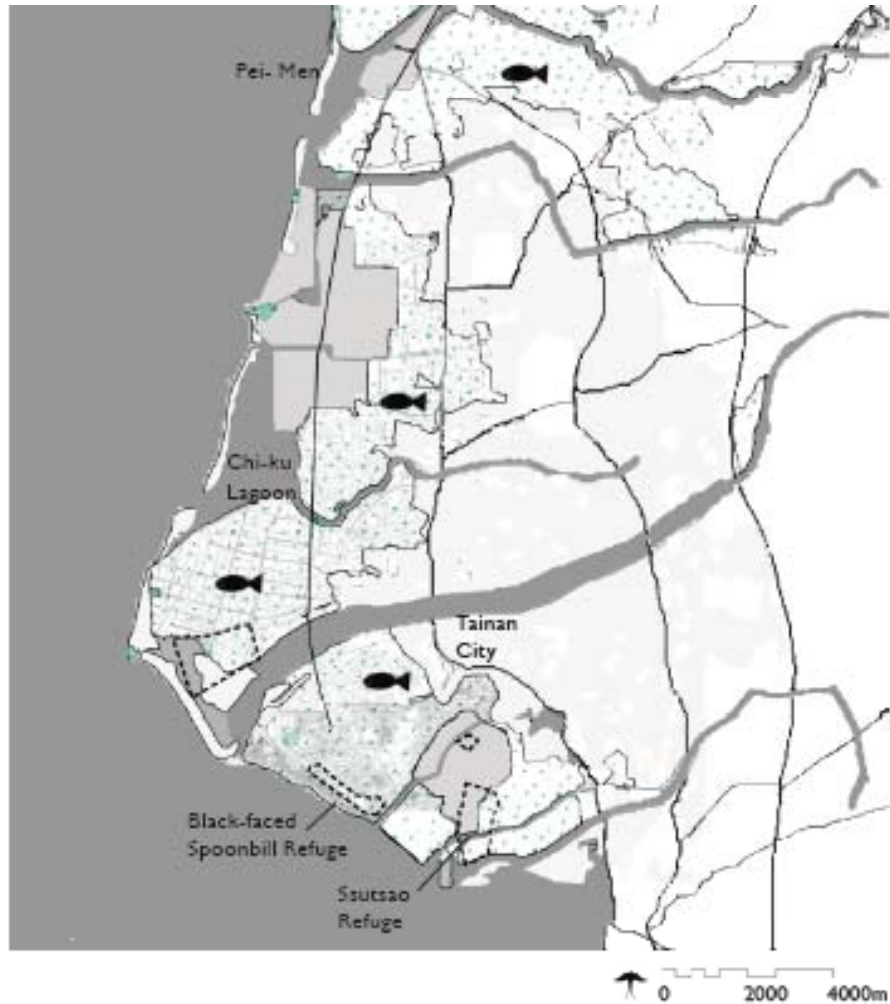


Habitat Expansion



Tseng-wen Estuary Refuge

Tainan County, Taiwan



mission

The purpose of Spoonbill Action Voluntary Echo (SAVE) International is to protect the critically endangered black-faced spoonbill and its habitat throughout its flyway by promoting alternative economic development and long-term sustainability of the ecosystems and local communities.



Who is SAVE International?

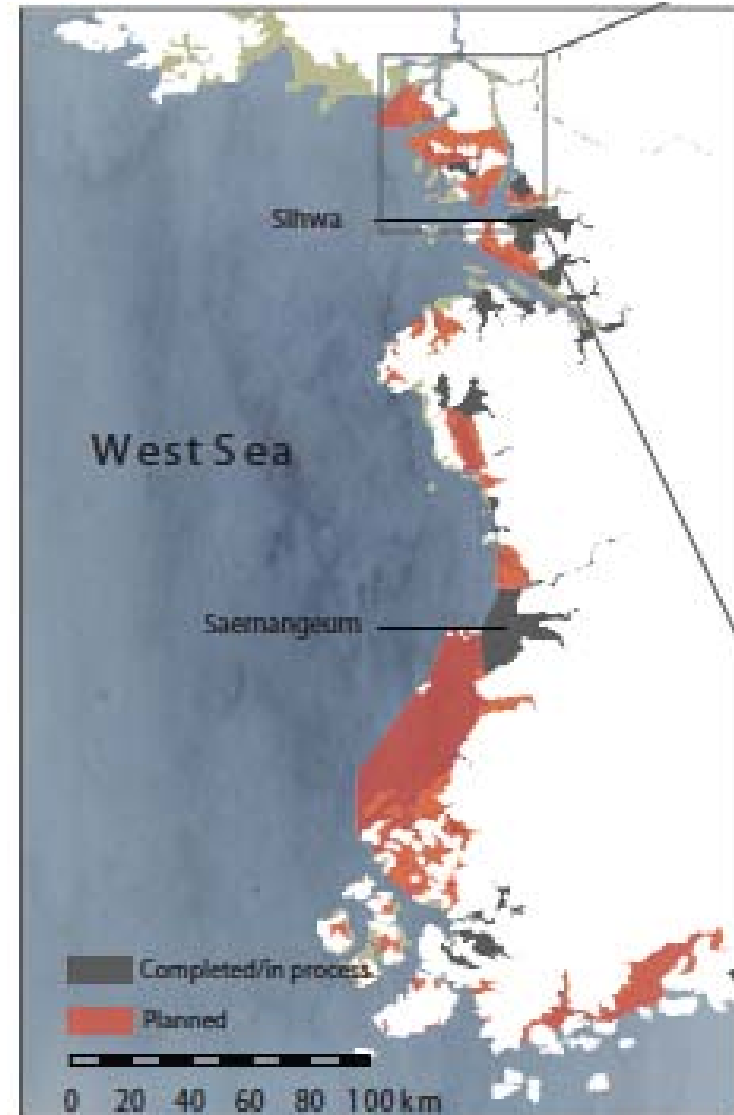
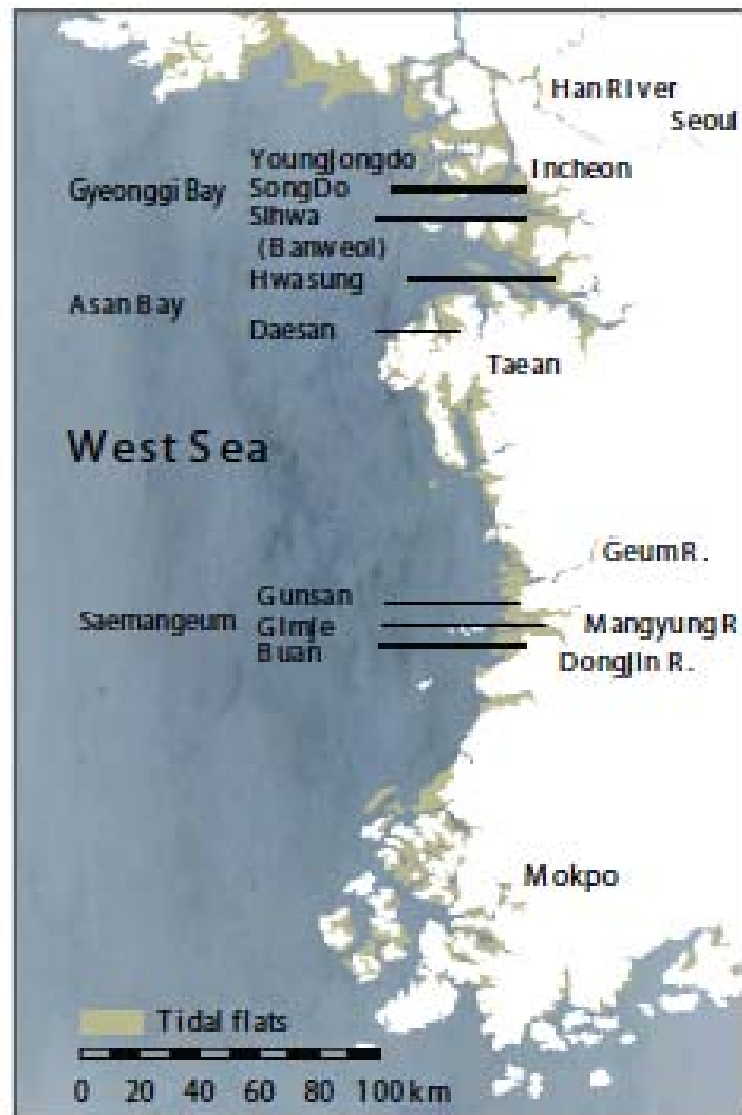


actions

campaign against threats to spoonbill habitat
research habitat requirements for a viable spoonbill population
apply international **pressure**
promote alternative sustainable development
collaborate with local groups to develop plans for sustainable development where
there is spoonbill habitat



SAVE in South Korea



Habitat biodiversity



Internationally Important Bird Species at Song Do



Black-faced Spoonbill



Saunders's Gull



Eastern Oystercatcher



Mongolian Plover



Black-tailed Godwit



Eurasian Curlew



Far Eastern Curlew



Common Greenshank



Nordmann's Greenshank



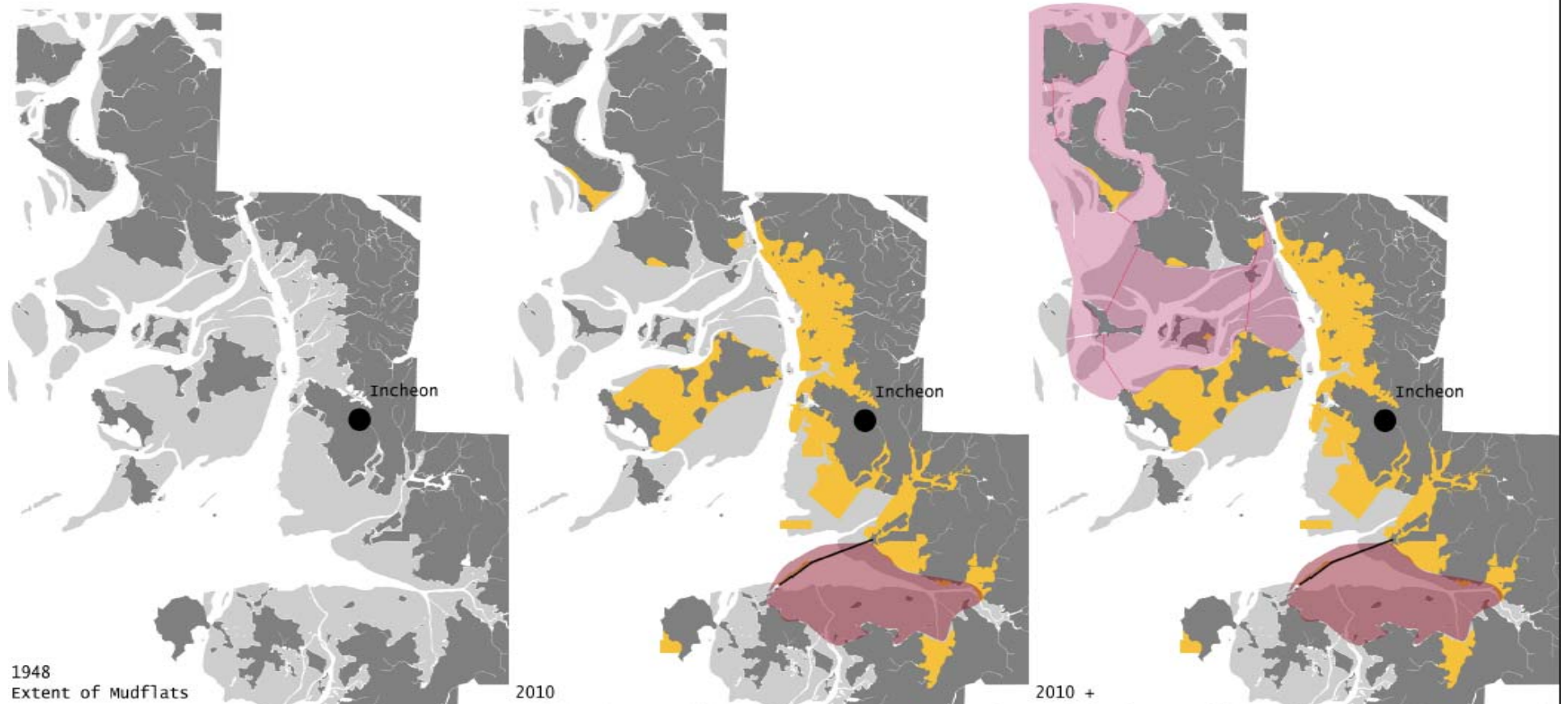
Great Knot



Dunlin

Source: Birds Korea

Korea's most threatened habitat



South Korea Re-envisioning tidal flats

Songdo City



SAVE's Alternative Plans



Missed Opportunities:

Education
Ecotourism
Quality of Life
Wastewater Treatment



American Universities and Schools

at Songdo City

North Carolina State University

on hold

SUNY Stony Brook

on hold

UC Berkeley Law School

in discussions

Chadwick Academy

opened 2011

others:

USC,

University of Missouri,

University of Delaware,

George Mason University,

Georgia Tech,

University of Illinois,

Carnegie Mellon University,

Boston University,

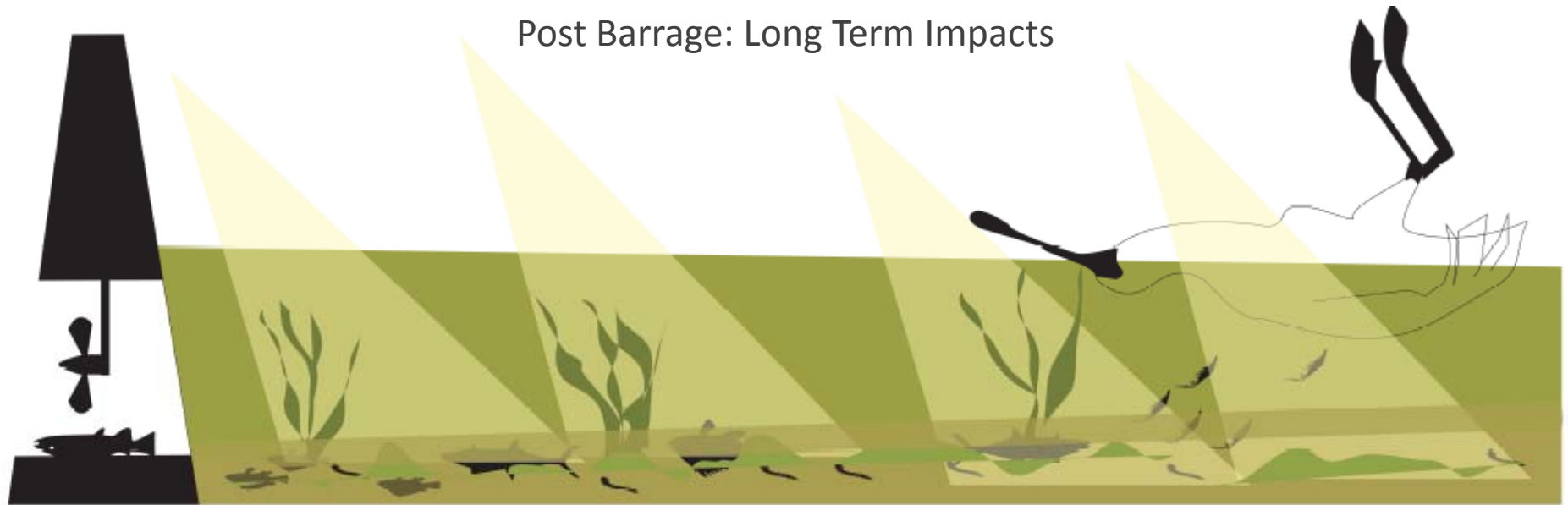
Columbia University,

UC San Diego...



Tidal Power Impacts

Post Barrage: Long Term Impacts



External Inputs

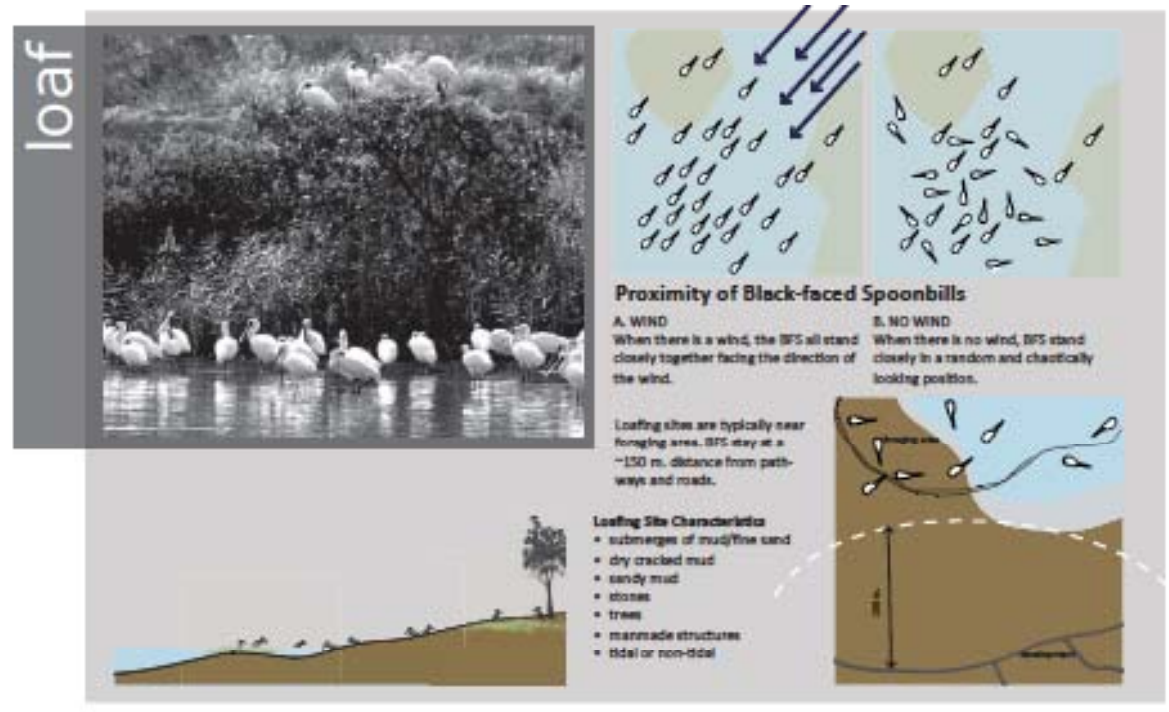
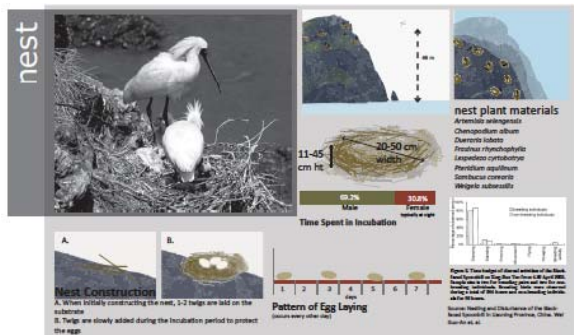
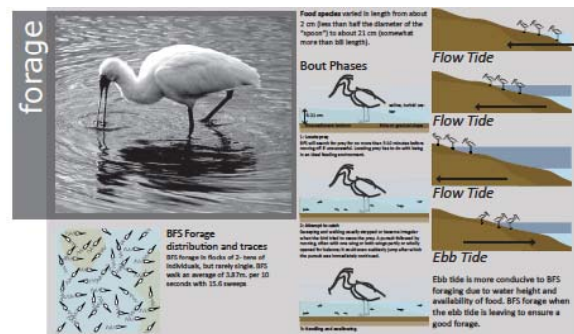
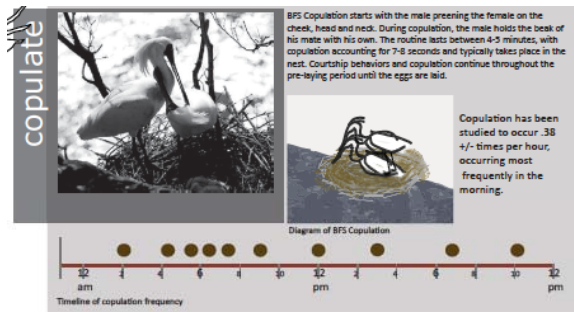
Process Response

Biological Response

Social Impact



Summer Habitat Geometries & Behaviors

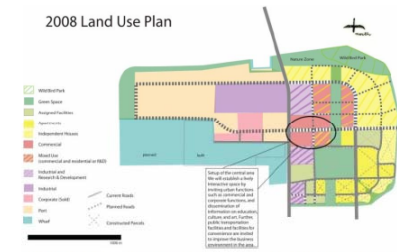


SAVE in Japan

Island City, Fukuoka

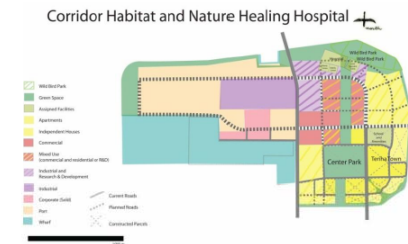


2008 Land Use Plan

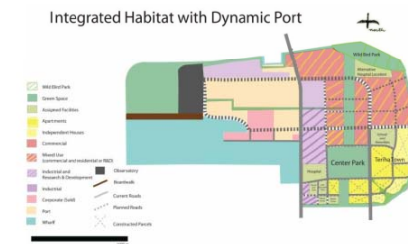


Each of the three plans could improve the 2008 Land Use Plan shown above. The experts conducting the cost-benefit analysis suggested that the three new plan proposals should retain the same amount of land use coverages as the 2008 plan and demonstrate the advantages without loss of the best aspects of the 2008 plan.

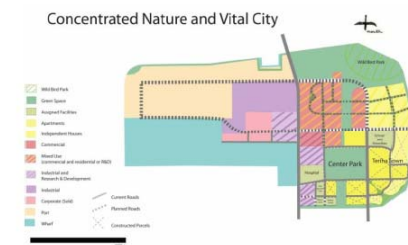
Corridor Habitat and Nature Healing Hospital



Integrated Habitat with Dynamic Port



Concentrated Nature and Vital City



more information

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thank you!

