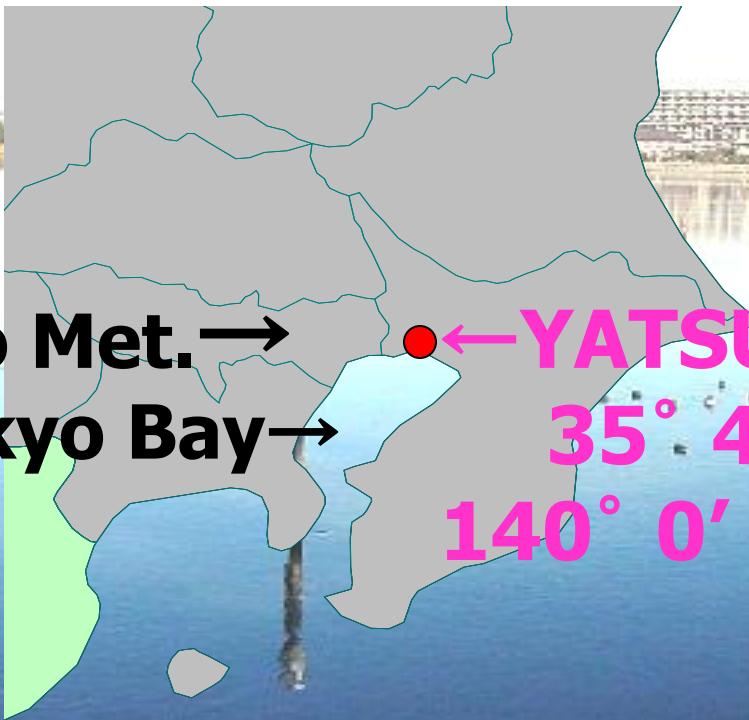


**Case Study of
Integrated Wetland Management
at Yatsu Tidal Flat
with YNOC**

1. The Profile of YATSUHIGATA (Yatsu Tidal Flat)



Tokyo Met.→
Tokyo Bay→



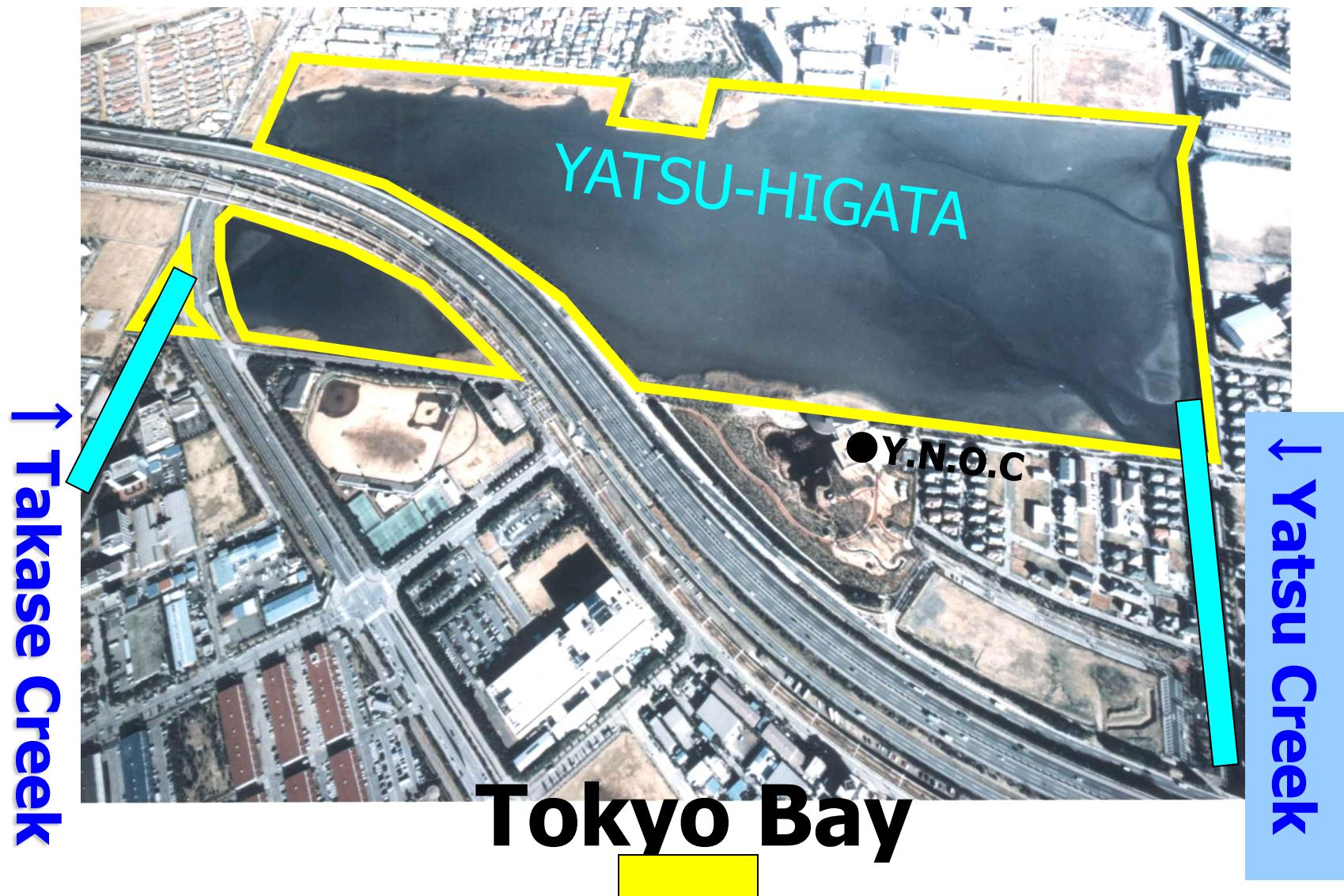
A map of the Tokyo Bay area. The map shows the coastline of Tokyo Bay and the surrounding landmasses. A red dot marks the location of Yatsu-Higata. A pink arrow points from the text "YATSU-HIGATA" to the red dot. Below the map, the coordinates are given as $35^{\circ} 40' 31''$ N and $140^{\circ} 0' 11''$ E.

YATSU-HIGATA

$35^{\circ} 40' 31''$ N

$140^{\circ} 0' 11''$ E

The Present YATSUHIGATA



Transition of Coastline



1971



1974



Road to Preservation

1971-
Protection activities by local people
and conservation groups

1993 Ramsar site

1994 YNOC was established

1996 The East Asian and Australasian
Shorebirds Flyway Network site

2. Participation of Local People

Key words

Local People/Groups

Facility Volunteer

Coordination and Training

Rehabilitation Program

Interpretation



Walk-in observation



Dramatic picture show



Bush mowing





Guide walk

Wetland explorer



Coordination & Training



Interpretation training
for beginner

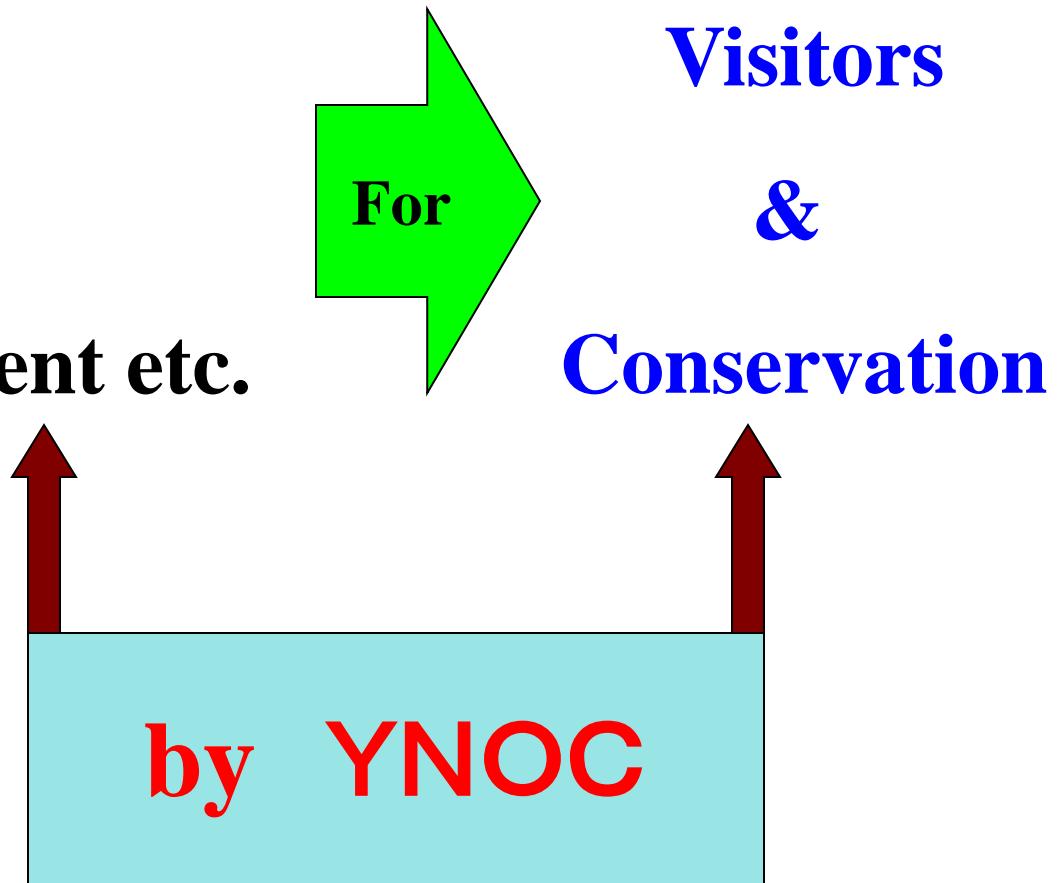


Monitoring benthos
training

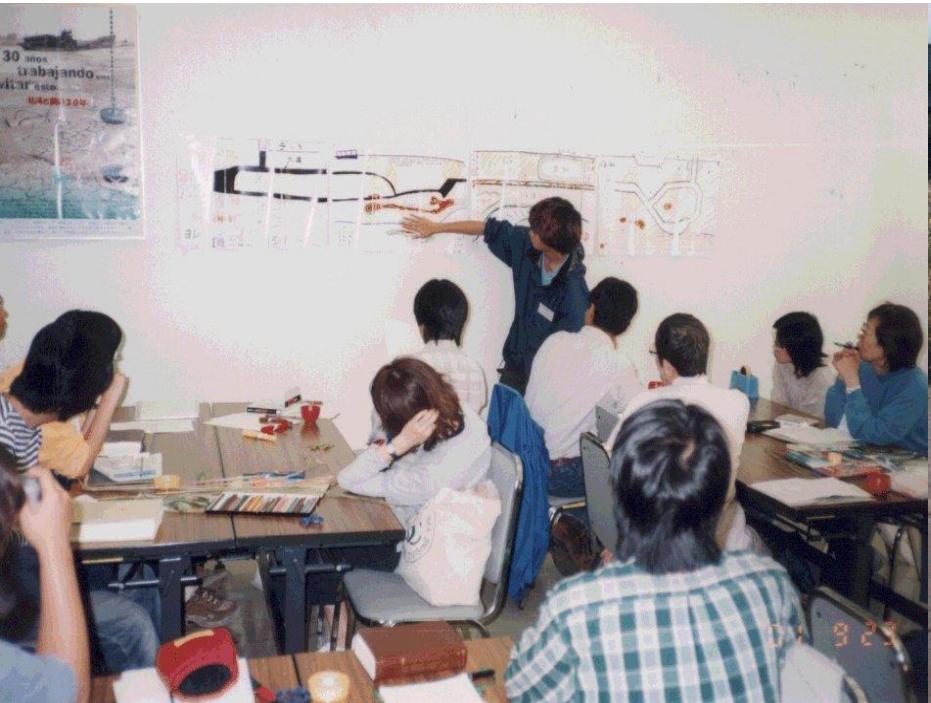
Volunteer Activities

- Interpretation
- Group activities
- Supporting for event etc.

Coordination
&
Training



Rehabilitation Program



- Three years program
2001-2003
- Involvement of
local people



3. Research and Monitoring

Key words

Wastes

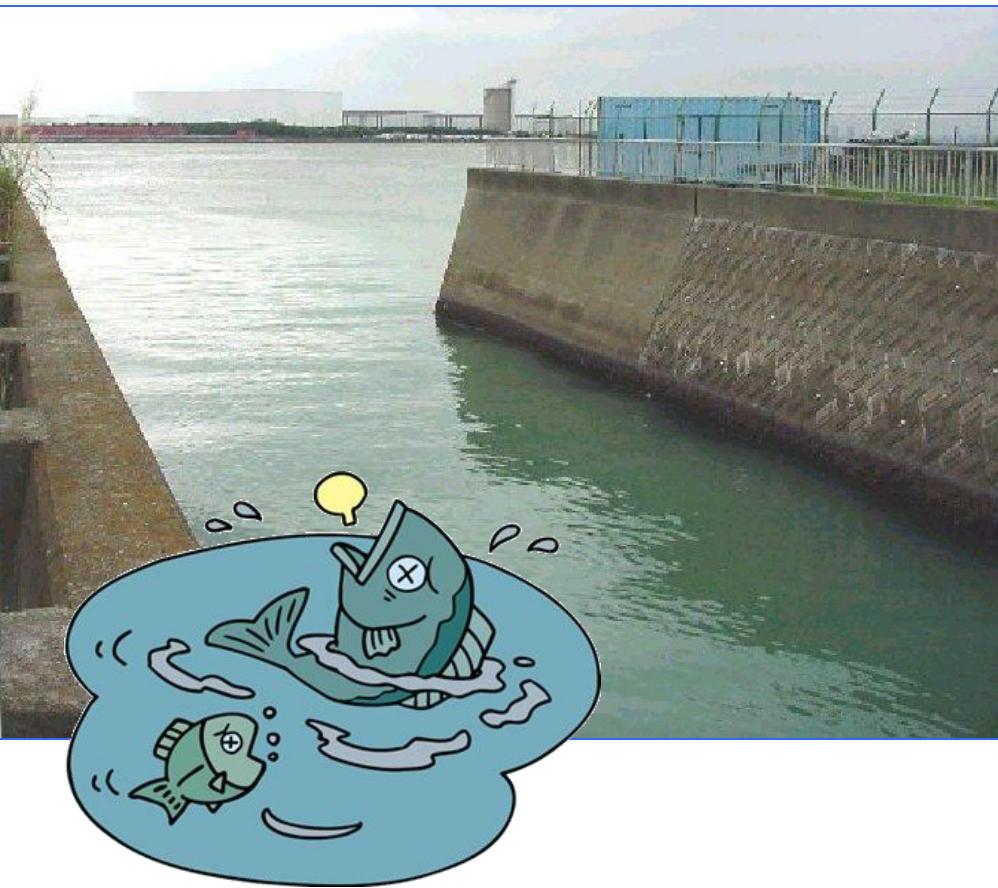
Blue Tide

Sediment

****Ulba pertusa****

Population Clash on Shorebirds

Blue Tide & Changing of Sediment



Green Tide caused by *Ulva pertusa*



Collecting *Ulva*



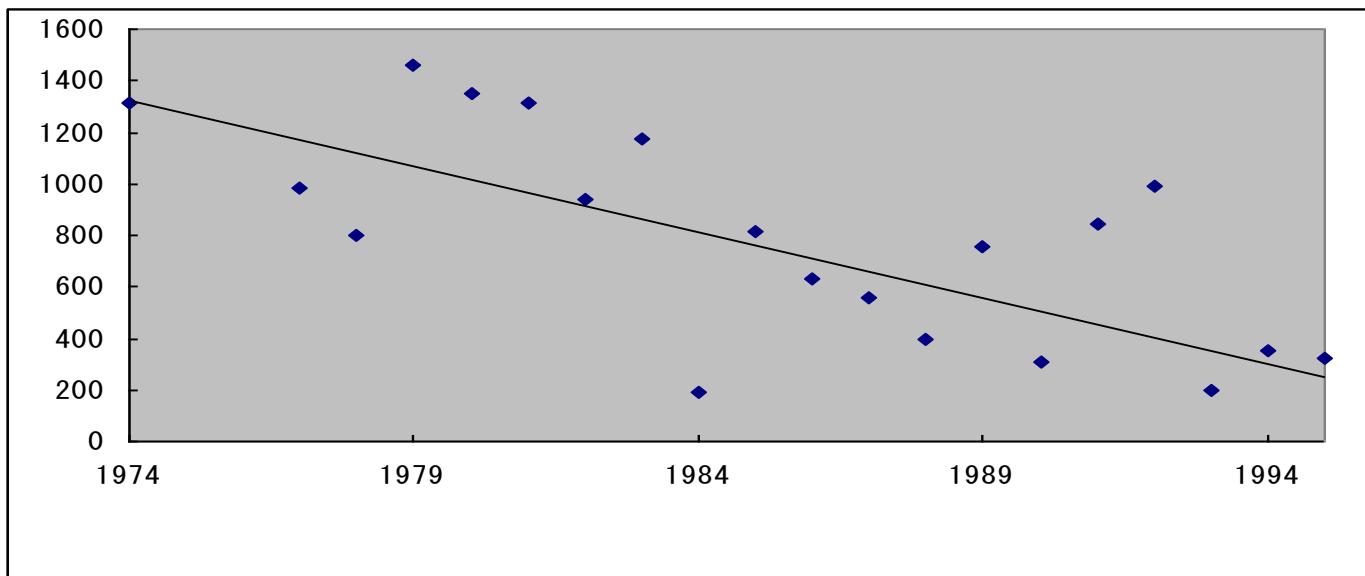


Fig.1. Relationship between number of migratory waders and years in spring

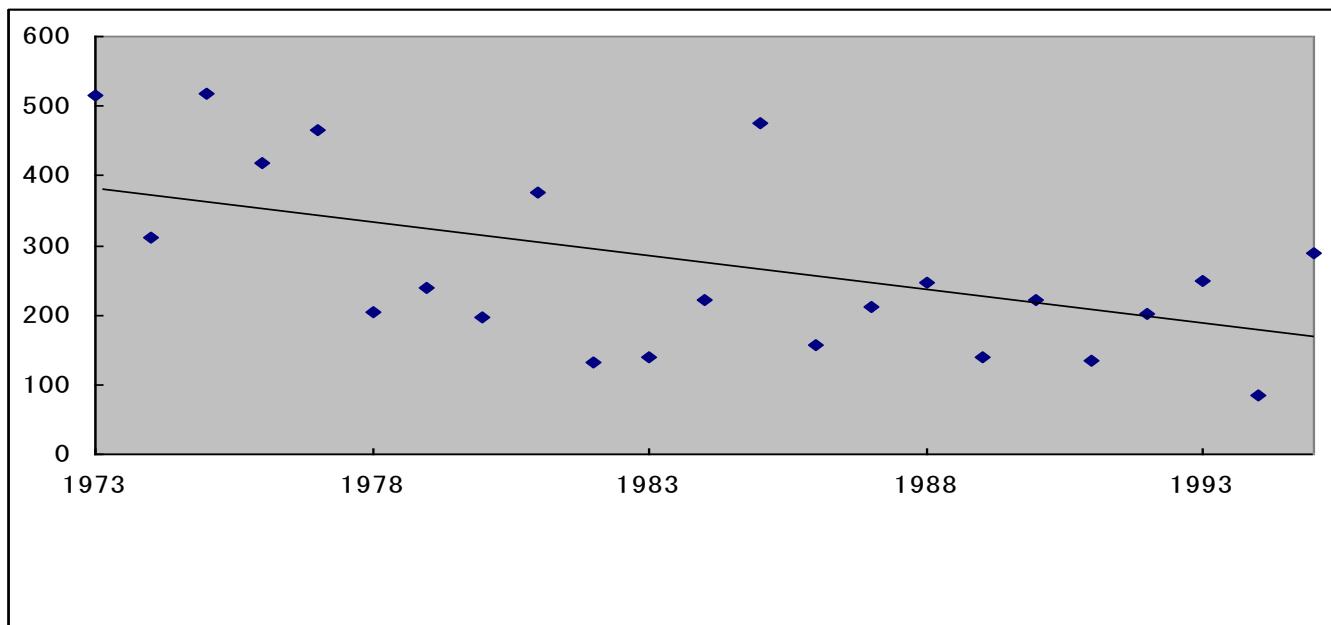


Fig.2. Relationship between number of migratory waders and years in autumn

Table.1

Table1. Tendency for the population changes on each wader species recorded in spring and autumn from 1973 to 1995 by the simple linear regression analyses.					
Species		Spring		Autumn	
Japanese name	Latin name	Fcal	Tendency	Fcal	Tendency
チドリ	<i>Charadrius dubius</i>	0.87	■	1.41	■
モンゴルチドリ	<i>Charadrius mongolus</i>	19.13	□ P<0.001	7.922	□ P<0.025
スズメ	<i>Pluvialis dominica</i>	-	-	5.987	□ P<0.025
アリエント	<i>Arenaria interpres</i>	31.6	□ P<0.001	11.63	□ P<0.005
カモメ	<i>Calidris Ruficollis</i>	1.396	■	0.359	■
カモメ	<i>Calidris acuminata</i>	-	-	1.89	■
カモメ	<i>Calidris canutus</i>	-	-	2.42	■
カモメ	<i>Calidris tenuirostris</i>	8.72	□ P<0.01	0.526	■
カモメ	<i>Calidris alba</i>	0.876	■	1.13	■
カモメ	<i>Limicola falcinellus</i>	-	-	2.57	■
カモメ	<i>Tringa erythropus</i>	-	-	7.88	□ P<0.025
カモメ	<i>Tringa nebularia</i>	-	-	12.52	□ P<0.005
カモメ	<i>Tringa glareola</i>	-	-	16.08	□ P<0.001
カモメ	<i>Heteroscelus brevipes</i>	1.41	■	24.14	□ P<0.001
カモメ	<i>Actitis hypoleucos</i>	-	-	35.25	□ P<0.001
カモメ	<i>Xenus cinereus</i>	-	-	0.025	■
カモメ	<i>Limosa limosa</i>	-	-	0.025	■
カモメ	<i>Limosa lapponica</i>	0.023	■	0.35	■
カモメ	<i>Numenius phaeopus</i>	4.01	■	6.17	□ P<0.025
カモメ	<i>Phalaropus tricolor</i>	-	-	4.58	□ P<0.05

On the Table2., □ shows increase, ▨ shows decline, NS means None Significant.

4. Domestic and International cooperation

Key words

Migratory Shorebirds Education Project

Teaching Material

Inter-NGOs

Workshop

Shorebirds Network Site Training Course

Grey-tailed tattler



Mongolian plover



Shorebirds



Greenshank

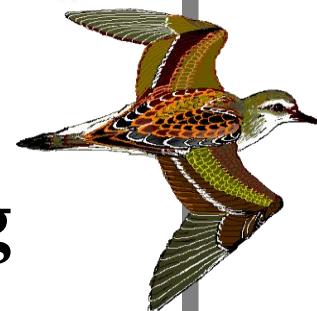
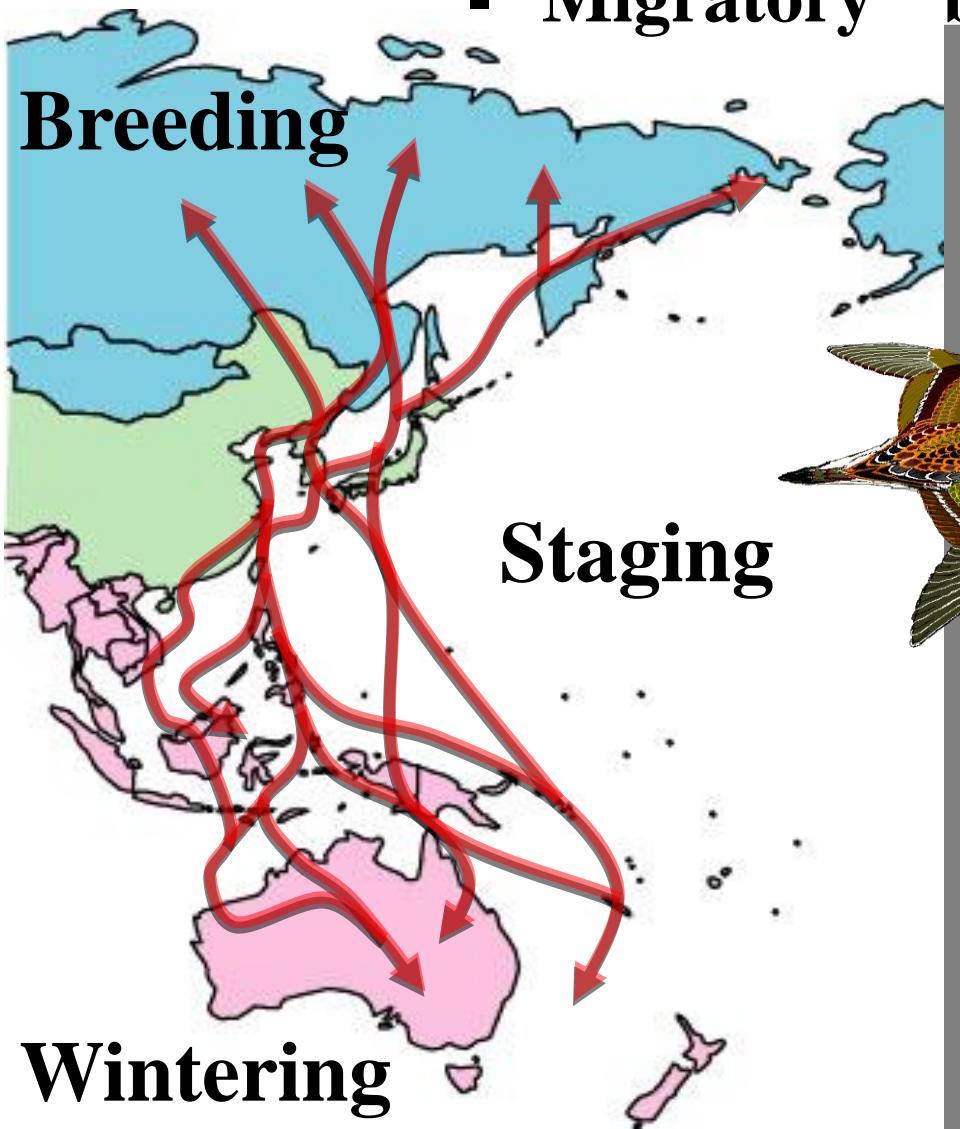


Curlew



What are *Shorebirds* ?

- A group of special birds in wetland
- Migratory birds



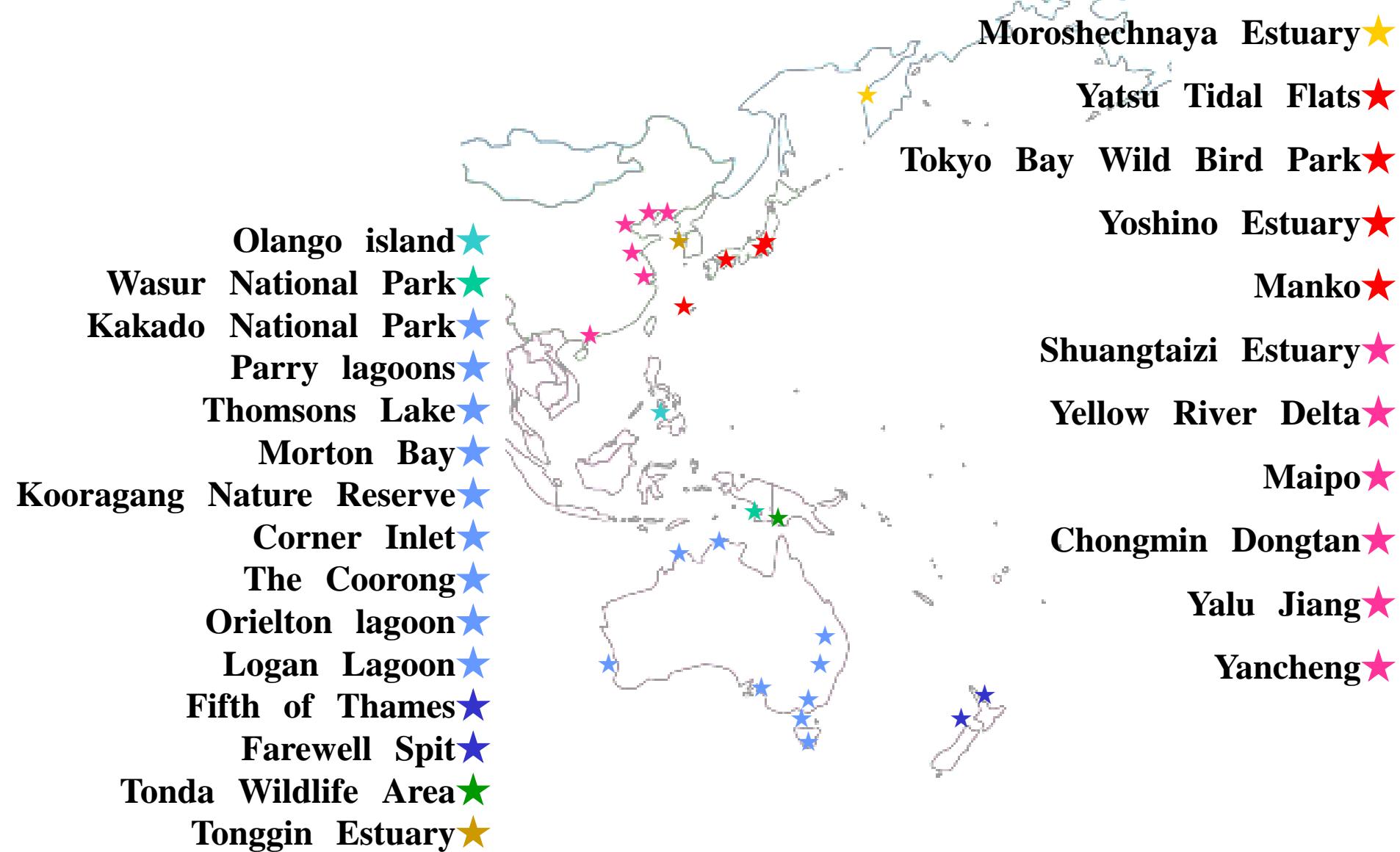
12000km !



Wintering

Red-necked stint

The East Asian-Australasian Shorebird Flyway Network



Teaching Material on Shorebirds for Environmental Education

地球を旅する渡り鳥たち

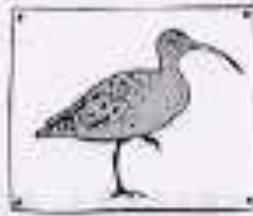
シギ・チドリ体験学習教材



環境省・WWFジャパン
U.S. Fish and Wildlife Service

-アクティビティ-

シギ・チドリ類を作ろう



対象：小3～中3（科糞は目安です。生徒の発達段階に応じて実施してください）

目的：

ひとりの生徒を鳥の姿にさせることで、一般的な鳥類に見られる身体上の適応について学びます。次にシギ・チドリ類の姿にさせることで、シギ・チドリ類に特有の身体上の適応について学びます。

Demonstration and Workshop



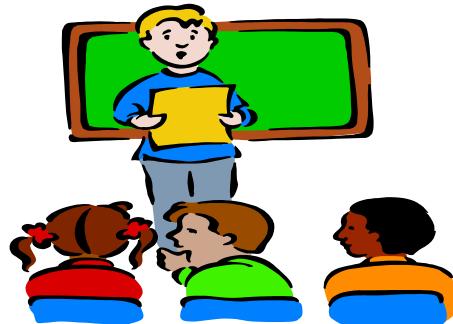
in Okinawa
August 2001

Shorebirds network site training course in Kashima city



Tasks of YNOC for Integrated Wetland Management

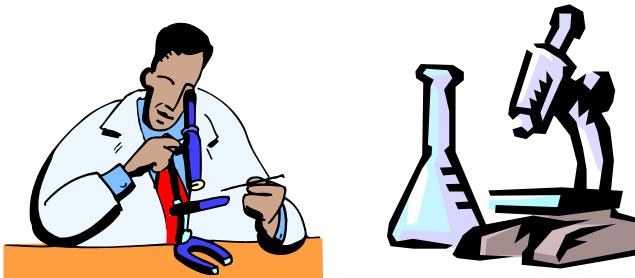
1. Environmental Education



2. Participation of Local people



3. Conservation Research & Monitoring



4. Domestic & International Cooperation



Cooperation & Partnership

