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Tidal flat ecosystem illustration credit: Fujimae Ramsar Society Photo credit: Network of Tokai-Inae Area, designated administrator, Nagoya City Wild Bird Observation Center

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What is a wildlife protection area?



Wildlife protection areas are designated on the basis of the Protection and Control of Wild Birds and Mammals and Hunting Management Law, which was established in order to protect wildlife

There are two types of wildlife protection areas: National Wildlife Protection Areas designated by the national government (Minister of the Environment), and Prefectural Wildlife Protection Areas designated by prefectural governments (governors). Fujimae-higata is a wildlife protection area designated by the national government.

Hunting is prohibited within the boundaries of a wildlife protection area. Additionally, areas deemed to be particularly important for protecting wildlife and their habitats can be designated as Special Protection Areas. Certain development activities are regulated inside Special Protection Areas.

Description of Fujimae-higata

At Fujimae-higata, the tidal flat located near the Inae Visitor Center and Fujimae Active Center has been designated as a Special Protection Area.

The Ramsar Convention is a treaty related to wetlands that was adopted at an international conference hosted by the city of Ramsar in Iran on February 2, 1971. Its official name is the Convention on Wetlands of International Importance especially

What is the Ramsar Convention?

Ramsar in Iran on February 2, 1971. Its official name is the Convention on Wetlands of International Importance especially as Waterfowl Habitat, but it is more generally called the Ramsar Convention, named for the city where it was adopted.

The countries that signed the Convention designate their own wetlands in accordance with international standards stipulated

wetlands in accordance with international standards stipulated by the Convention, and these wetlands are placed on the List of Wetlands of International Importance. These wetlands are called Ramsar Sites. The Fujimae-higata Wildlife Protection Area that was designated as a Special Protection Area in 2002 was also registered under the Ramsar Convention that same year.

The Ramsar Convention incorporates three basic approaches.

These include the conservation and restoration of wetlands, the wise use of wetlands, and international cooperation and study (the CEPA programme) to promote such efforts.



Maintain wetland ecosystems and utilize the benefits provided by wetlands in a sustainable manner.

cooperatior

and study

Land creatures

creatures

Conservation and restoration msar ntion tlands

Call for not only the conservation of waterfowl but also the wide-ranging conservation and restoration of ecosystems that support human life.

Promote international exchange, skills development, education, participation, and public awareness for the purposes of conservation and wise use.

What are tidal flats like?



Fujimae-higata is a natural tidal flat that is situated at the innermost part of Ise Bay and extends across the estuary where three rivers converge: the Shonai River, the Shin River, and the Nikko River. Only a small tidal flat remained after most of the area was landfilled for harbor facilities, factories and agriculture. When Fujimae-higata was targeted for use as a garbage landfill by the city of Nagoya, there was an outcry by citizens who wanted to protect the tidal flat, and that led to its preservation.

Fujimae-higata is well-known for migratory birds, being an important stopover for sandpipers and plovers on their migration between East Asia and Australia. The reed beds that grow along the riverbanks are inhabited by grassland birds and and a well-known fish, the mudskipper, as well as numerous crab varieties and shellfish. In November 2002, the diverse natural environment of Fujimae-higata was designated by the Ministry of the Environment as a Wildlife Protection Area. Afterward, the central area that includes the tidal flat was designated a Special Protection Area. In the same month, this Special Protection Area was listed under the Ramsar Convention as a wetland of international importance for the following three reasons.

International listing criteria* applicable to Fujimae-higata

Criterion 2: A wetland should be considered internationally important if it supports vulnerable, endangered, or critically endangered species or threatened ecological communities.

Criterion 4: A wetland should be considered internationally important if it supports plant and/or animal species at a critical stage in their life cycles, or provides refuge during adverse conditions.

Criterion 5: A wetland should be considered internationally important if it regularly supports 20,000 or more waterbirds.

*Ramsar Sites are established according to nine selection criteria and guidelines.

At low tide

Have you ever gone clam-digging? Visualize in your mind what that place was like. A mud plain extending for several kilometers from the shoreline, a place where even boots can't keep your feet from getting stuck. These locations are expansive mud plains at certain times of day and covered by the sea if you visit at other times. This is a natural phenomenon caused by large differences in the ocean tide. Shallow seabeds appear and disappear according to the tide. When the seabed appears and becomes an expansive mud plain, it is called a "tidal flat." Tidal flats are drained and submerged by water twice a day due to the effects of the tide.



The definition of "tidal flat" according to a Ministry of the Environment study*



The maximum width of the drainage area between the shorelines at high and low tide must be at least 100 m.



The area of continuous drainage during the spring tides must be at least 1 ha.

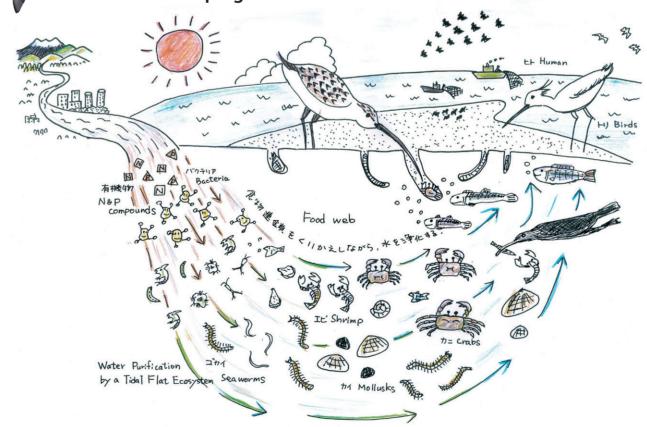
The ground must be easy-to-move sediment (sand, gravel, silt, or mud).

*Tidal flat distribution survey (existing tidal flats)

The Tidal Flat Ecosystem

Living Creatures

Keeping Water Clean to Cultivate Life



The three rivers that converge at Fujimae-higata — the Shonai, Shin, and Nikko Rivers — are rich in phosphorus, nitrogen, and other organisms as well as organic matter such as dead organisms and fallen leaves that provide a source of nutrients for marine phytoplankton. Additionally, in the tidal flats, benthic organisms such as Japanese mud shrimp, basket clams, crabs, and ragworms consume these substances and purify the water. The tidal flat surface is home to countless burrows belonging to benthic organisms. The mud is supplied with fresh oxygen in the seawater from these burrows, which improves the environment of the tidal flat. Migratory birds and fish then congregate at the tidal flats to feed on those

benthic organisms. The existence of abundant benthic organisms supports the activities of diverse living creatures. However, if this balance is disrupted even once, a number of problems occur, including "red tide," which is caused by an overabundance of phytoplankton, and "hypoxia," a condition in which sludge accumulates along the ocean floor, causing the oxygen in the area to be consumed. This causes a vicious cycle of environmental degradation. The tidal flat is an important place that cleans the water and cultivates the lives of many living creatures.



Reeds are the plants most typically found a Fujimae-higata. These members of the grass family grow to be 2–3 m in height in summer and they are home to many other creatures Living in some reed fields at the base of the reeds are salt marsh plants like Carex scabrifolic



Phragmites australis (re

Teaching others about tidal flats

Lecture visits and nature walks

At the Nagoya Ranger Office for Nature Conservation, which oversees Fujimae-higata on behalf of the Ministry of the Environment, we host the Ranger Photo Exhibition and other events in cooperation with local government and private organizations to teach large numbers of

people about tidal flats. We also visit elementary schools in Nagoya and teach children about tidal flats in a fun manner. In addition, there are nature walks with private organizations at Fujimae-higata.



School vis



ProtectingFujimae-higata together

Helping out with environmental conservation activities



One example: The Fujimae-higata Coastal Cleanup Campaign

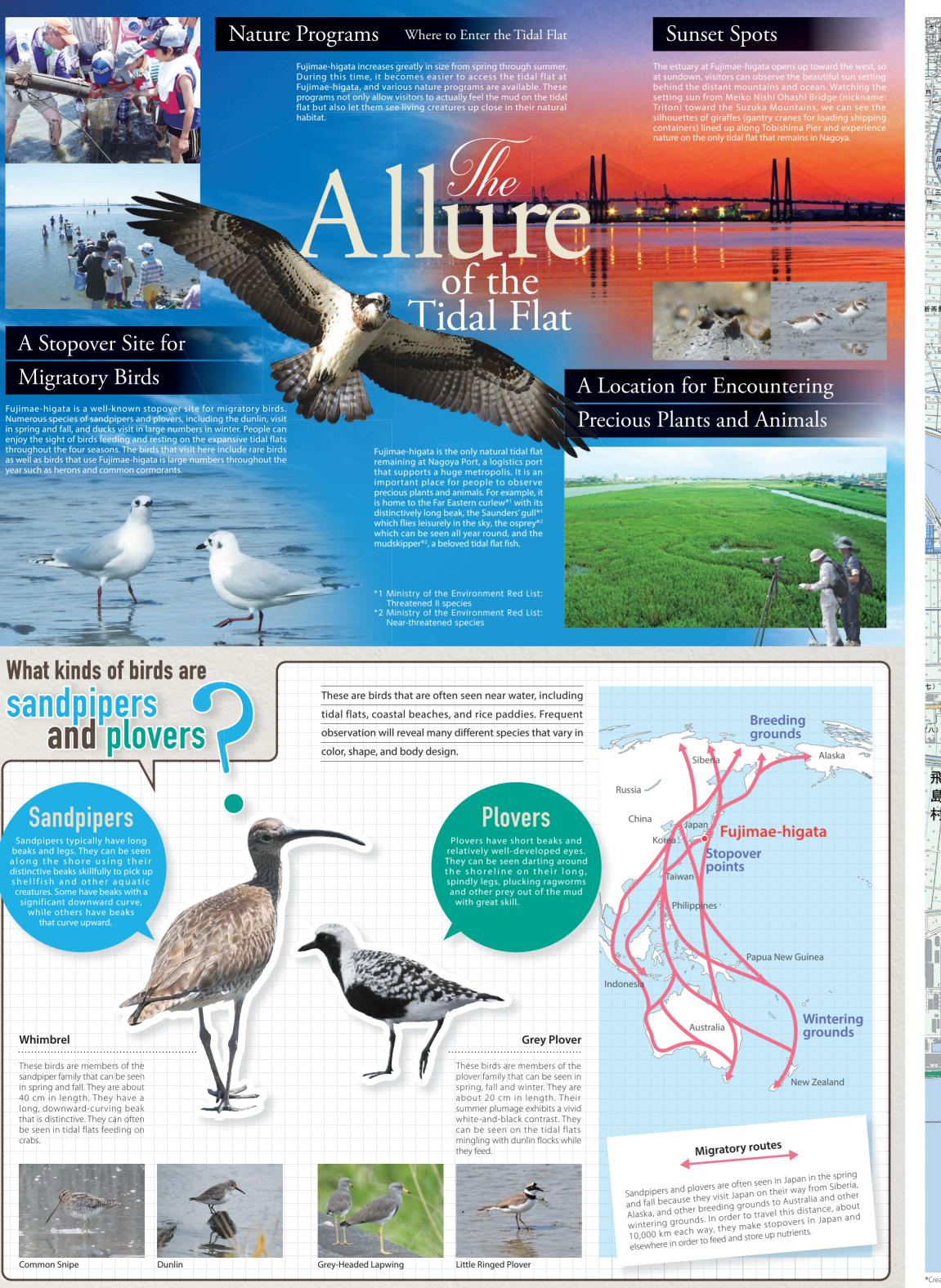
Twice a year at Fujimae-higata, the Fujimae-higata Coastal Cleanup Campaign Executive Committee, which is made up of citizens and various other groups, holds an extensive coastal cleanup. Environment Agency staff help out with these activities.

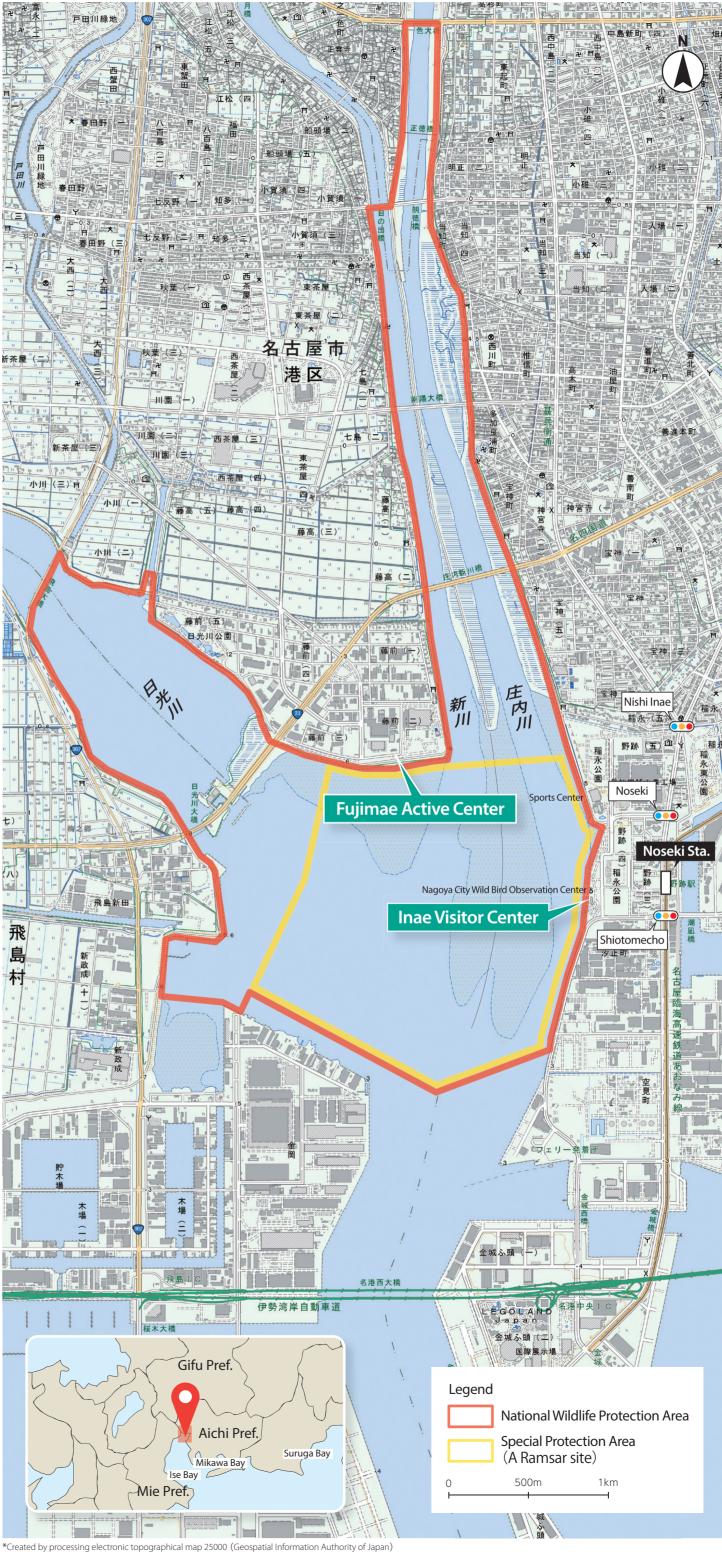
Fujimae Tidal Flat Meeting

This meeting is open to anyone who is eager to raise public awareness about Fujimae-higata and to participate in its conservation. It is a place

for sharing issues related to public works taking place in the Fujimae-higata Wildlife Protection Area and the environment of Fujimae-higata, and for discussing how to promote the conservation and utilization of Fujimae-higata.







Tidal Flat Rules

Please show proper regard for nature at the tidal flat and obey the following rules to ensure that everyone can enjoy it.



Do not litter. Take your garbage home with



After you have looked at a living organism that you found, return it to its original place.



When you enter the tidal flat, be aware that you have entered the home of living creatures, and return any stones that you move to their original position.



When taking photographs, be considerate of living creatures and don't get too close.



Do not step on small creatures or their



Facility Information

Fujimae Active Cente



Parking available

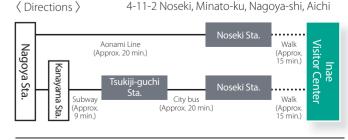
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TEL: +81-52-389-5821 FAX: +81-52-389-5822 4-11-2 Noseki, Minato-ku, Nagoya-shi, Aichi



Open hours 9:00 A.M. – 4:30 P.M.

Mondays (the following day if Monday is a public

3rd Wednesday of the month (the 4th Wednesday if the 3rd one is a public holiday) New Year (December 29 – January 3)

Admission Free (Visits by organizations require an advance reservation.)