What are migratory birds?

Migratory birds are defined as birds that migrate between a breeding site and a wintering site in specific seasons each year.

Shorebirds represent a major segment of the migratory bird population. They can be seen mainly on tidal flats and along the coastline. The birds that stop over in Japan in spring and autumn spend their summers breeding on the tundra of Siberia and Alaska and pass the winter in Southeast Asia and Oceania. In many cases, these shorebirds migrate in flocks across great distances at a single stretch. As a result, they must rest at stopovers in order to regain the significant amounts of fat they require as the energy for continuing their migration. Migratory birds cannot survive without all these breeding sites, wintering sites, and stopovers. And because they fly across national borders, migratory birds require the highest levels of international commitment to ensure their survival

Birds Inhabiting the Fujimae-higata

America and stop over or

Bar-tailed Godwit

This bird is recognized by the

long upward curve of its beak

The bar-tailed godwit breeds in

northern Furasia and Alaska and

r of the Charadriidae

family, the grey plover is knowr to migrate over long distances.

considered a species at risk

he largest colony of aunders's gulls is located in

Eared grebe Black-necked grebe Great crested grebe Streaked shearwat Great cormorant Great bittern Yellow bittern Striated heron Cattle egret Great egret This bird is characterized by its slightly downward-curving beak. Dunlins sometimes form large flocks. They breed Intermediate egre-Little egret Gray heron Black-faced spoonbill in northern Eurasia and North Greater white

fronted goose Tundra swan Common shelduck Mandarin duck Mallard Spot-billed duck Eurasian teal Green-winged teal Baikal teal Falcated duck Gadwall

Eurasian wigeon American wigeon Northern pintail Northern shoveler migrates south to Australia and Africa in winter. It uses Japan as a stopover in spring and autumn Common pochard Tufted duck Greater scaup Common goldeneye Red-breasted mergar Osprey Black-eared kite White-tailed eagle Northern goshawk

Japanese sparrowhaw Eurasian sparrowhawk Grey Plove Common buzzard Grey-faced buzzard Northern harrier It breeds in northern Eurasia Eastern marsh harrie and North America and winters in Africa, Australia, and South Peregrine falcon America, Japan is both a stopove Eurasian hobby and wintering site for this bird Merlin Eurasian kestre

Water rail Ruddy-breasted crake Common moorher Eurasian coot Eurasian oystercatche Common ringed plove Kentish plover Lesser sand plove Osprey A large, fish-eating hawk, the osprey inhabits coastlines and lakeshore, where it can be seen hovering above water before diving to catch fish with its claws. The osprey is considered a species at risk Pacific golden-plove Grey plover Grey-headed lapwing

Northern lapwing Ruddy turnstone Red-necked stint Long-toed stint Temminck's stint Dunlin Curlew sandpipe Red knot Great knot

Broad-billed sandpipe Long-billed dowitcher Eastern Marsh Harrier Asian dowitcher A small group of Eastern marsh Spotted redshank harriers breeds in reed beds in Common redshank Common greenshar They migrate to the main Green sandpiper Wood sandpiper wetlands and on reclaimed land where they prey on birds Common sandpiper species is listed as vulnerable. Terek sandpiper

Black-tailed godwit Bar-tailed godwit Eurasian curlew Far eastern curlew Whimbrel Common snipe Latham's snipe Black-winged stilt Red-necked phalarop Pomarine jaeger Black-headed gull Saunders's Gull Herring gull China. In Japan, they winter on tidal flats and at river Slaty-backed gull Glaucous gull mouths mainly in the western Mew gull part of the country. They fly Black-tailed gull low in order to catch crab and Saunders's gull fish. The Saunders's gull is listed as a vulnerable species. Black-legged kittiwake White-winged tern Whiskered tern Common tern Little tern

Common kingfisher Black-backed wagtail Japanese wagtail



The Fujimae-higata and its surrounding area serve as a stopover for vast numbers of migratory birds on the East Asia-Australia flyway. In fact, this is one of Japan's largest stopovers. In the spring of 2000, 11,000 shorebirds were recorded as using the tidal flat. In recent years, 172 bird species (including woodland birds) have been observed in the surrounding area, of which 41 species were shorebirds.

During the wintering season and the spring and autumn migrations, many shorebirds use the tidal flat and surrounding areas for feeding and resting. The bird species observed include dunlins, red-necked stints, grey plovers, bar-tailed godwits, lesser sand plovers, kentish plovers, grey-headed lapwings, common greenshanks, and grey-tailed tattlers as well as rare species such as Far Eastern curlews, Asian dowitchers, Nordmann's greenshanks, and black-faced spoonbills. In winter, a large number of ducks (such as tufted ducks and common pochards) fly from Russia, the Far East and Alaska for wintering. The Fujimae-higata is also visited by, or home to, many herons (Ardeinae, including great egrets and little egrets); seagulls (Laridae, including black-headed gulls and common terns); eagles and falcons (Falconiformes); and raptors (including ospreys), which encompass rare species such as intermediate egrets, Saunders's gulls, little terns, eastern marsh harriers, and peregrine falcons.

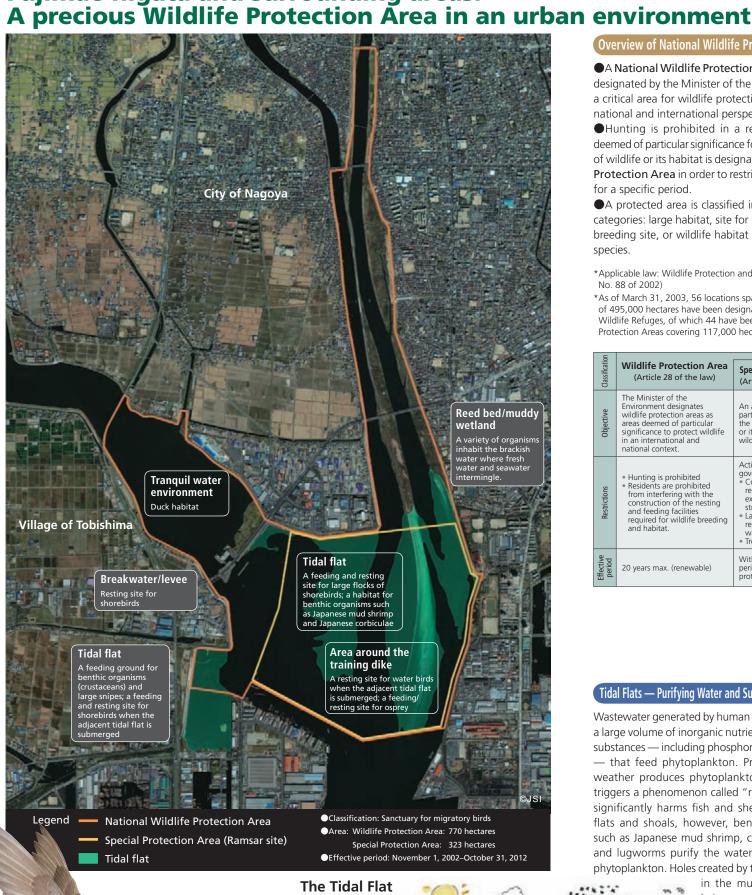
The downstream banks of the Shonaigawa and Shinkawa Rivers leading to the tidal flat are covered with reed beds, while the downstream areas of the Nikkogawa River offer a tranquil freshwater environment. For this reason, these areas are inhabited by prairie birds (including great reed warblers) and freshwater ducks (including northern pintails and Eurasian teals). A total of 31,000 waterbirds were observed in March 2000.



Little tern

The Fujimae-higata serves as a critical stopover for the migratory birds that travel about 10,000 km between their breeding sites in Siberia and wintering sites in Australia.

Fujimae-higata and surrounding areas:



Overview of National Wildlife Protection Areas

- A National Wildlife Protection Area is an area designated by the Minister of the Environment as a critical area for wildlife protection from both a national and international perspective.
- Hunting is prohibited in a refuge. An area deemed of particular significance for the protection of wildlife or its habitat is designated as a Special Protection Area in order to restrict development for a specific period.
- •A protected area is classified into one of four categories: large habitat, site for migratory birds, breeding site, or wildlife habitat for endangered species.
- *Applicable law: Wildlife Protection and Hunting Law (Act No. 88 of 2002)
- *As of March 31, 2003, 56 locations spanning a total of 495,000 hectares have been designated as National Wildlife Refuges, of which 44 have been named Special Protection Areas covering 117,000 hectares.

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Classificatio	Wildlife Protection Area (Article 28 of the law)	Special Protection Area (Article 29 of the law)
Objective	The Minister of the Environment designates wildlife protection areas as areas deemed of particular significance to protect wildlife in an international and national context.	An area deemed of particular significance to the protection of wildlife or its habitat within a wildlife protection area
Restrictions	Hunting is prohibited Residents are prohibited from interfering with the construction of the nesting and feeding facilities required for wildlife breeding and habitat.	Activities requiring government permission • Construction, renovation, and expansion of structures • Landfilling or reclamation of the water environment • Tree cutting
Effective period	20 years max. (renewable)	With in the effective period set for a wildlife protection area

Tidal Flats — Purifying Water and Sustaining Wildlife

Wastewater generated by human activity contains a large volume of inorganic nutrients and organic substances — including phosphorus and nitrogen — that feed phytoplankton. Prolonged warm weather produces phytoplankton blooms and triggers a phenomenon called "red tide," which significantly harms fish and shellfish. On tidal flats and shoals, however, benthic organisms such as Japanese mud shrimp, corbiculae, crab, and lugworms purify the water by consuming phytoplankton. Holes created by these organisms

in the mud also help to bring oxygen into the seawater to promote water purification. These benthic organisms also provide a food source for migratory birds; thus, tidal flats play a critical role in sustaining the life cycles of a great number of diverse creatures.

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Ecosystem



model for the commitment of large cities to a sustainable society. In fact, the Fujimae-higata has unlimited potential as a stage from which to observe the wonders of nature, enjoy the beauty and richness of the tidal flat, and enjoyably learn about a model for a sustainable society. The Fujimae-higata is significant not only as a symbol of environmental conservation but also as a

situation inspired the City and its residents to undertake a major waste reduction effort. public movement to save the tidal flat and the City of Nagoya's recognition of its importance. This once been proposed as a waste disposal site. Thankfully, this proposal was abandoned due to a plans for large-scale landfill projects in the surrounding area; in fact, part of the tidal flat had Surrounded by large cities, harbors, and industrial areas, the Fujimae-higata has barely escaped

Environmental Research and Eco Tours

worldwide.

birds, and regularly supports more than one percent of seven species of shorebirds the shorebird life cycle as a stopover, regularly sustains more than 20,000 water because it is used regularly by endangered species, supports a critical phase in In November 2002, the Special Protection Area was registered as a Ramsar site named a Special Protection Area by the Ministry of the Environment.

designated a Wildlife Protection Area and its core, including the tidal flat, was in the protection of migratory birds. Deservingly, in November 2002 the area was Consequently, the area plays an important role, both nationally and internationally, Rivers provide habitat for many prairie birds and freshwater ducks.

At the same time, the lower reaches of the Shonaigawa, Shinkawa, and Nikkogawa peregrine falcons.

and falcons (Falconiformes), including rare species such as Saunders's gulls and area is also inhabited by many herons (Ardeinae), seagulls (Laridae), and eagles winter, numerous ducks-from Russia, the Far East and Alaska gather here. This

of shorebirds observed at the Fujimae-higata is among the largest in Japan. In of shorebirds use the tidal flat as a feeding and resting area. Notably, the number During the spring and autumn migrations and wintering seasons, vast numbers

Ise Bay. It serves as an important stopover for shorebirds on the East Asia-Australia the Fujimae-higata is the last remaining broad tidal flat in the deepest reaches of Extending across the mouths of the Shonaigawa, Shinkawa, and Nikkogawa Rivers,

as a Ramsar site.

Wildlife Protection Area and has been registered lanoiten a betangiseb need san talt labit sint An important site for migratory birds, situated in an urban environment. The Fujimae-higata is a precious natural habitat



The Ramsar Convention and Fujimae-higata

The Convention on Wetlands of International Importance Especially as Waterfowl Habitat is popularly known as "the Ramsar Convention" because it was signed at an international conference in Ramsar, Iran. (The convention was signed on February 2, which has been designated "World Wetlands Day"; a one-week period spanning February 2 has been designated "World Wetlands Week.") The convention is intended to protect wetlands of international importance as well as the plants and animals that inhabit these wetlands. The parties to the convention are expected to designate wetlands and register them with the convention secretariat.

As of March 8, 2006, the 150 countries listed as parties to the convention had registered 1,591 wetlands spanning a total of 134 million hectares.

Japan became a party to the convention in 1980 and designated Kushiro-shitsugen (an area of low moors, freshwater lakes, and rivers) as a registered wetland. On November 18, 2002, Fujimae-higata and Miyajimanuma (a freshwater lake) in Hokkaido were registered. As of March 8, 2006, Japan had registered 33 wetlands spanning a total of 130,293 hectares.

Ramsar Sites in Japan



Access to Fujimae-higata

●By bus From Meitetsu Bus Center (Nagoya Station) Take the Mie Kotsu bus bound for Sunbeach Nikkogawa, Nagashima Onsen, or Minami-kuwana. Get off at Nanyo cho Fujimae and walk for 15 minutes.

●By train Get off at Noseki Station on the Aonami Line and walk for 10 minutes.

●By bus Get off at Tsukijiguchi Station on the Meiko Subway

Nagova Wild Bird higata



Ministry of the Environment

Chubu Regional Environment Office, Ministry of the Environment http://chubu.env.go.jp/

Nagoya Ranger Office for Nature Conservation Inae Visitor Center, 4-11-2 Noseki. Minato-ku.

Nagova 455-0845, Japan Tel: (052) 389-2877 Fax: (052) 389-2878 E-mail: WB-NAGOYA@env.go.jp





One of Japan's Largest Shorebird Sites

Fujimae-higata

Government-Designated Wildlife Protection Area

A Ramsar site

