Imuta-ike

Freshwater Lake, Low Moor

Geographical Coordinates: 31°49'N, 130°28'E / Altitude: 296m / Area: 60ha / MajorType of Wetland: Freshwater lake (crater lake), low moor / Designation: Natural Habitat Conservation Area under the Law for the Conservation of Endangered Species of Wild Fauna and Flora / Municipalities Involved: Satsumasendai City, Kagoshima Prefecture / Ramsar Designation: November 2005 / Ramsar Criteria: 2



Full view of Imuta-ike

General Overview:

Imuta-ike is a crater lake situated in the mountains in the upper reaches of the Sendai River, 25km northwest of Kagoshima City, the capital of Kagoshima Prefecture. It is a 60ha lake formed in the volcanic crater of Mt. Iimori. The water level of the lake is at an altitude of 296m. Imuta-ike is surrounded by mountains with altitudes ranging from 400 to 500m. Steep cliffs of the crater wall surround the lake. Imuta-ike has no river inflow but it drains into the Sendai River on the east side of the lake.

Imuta-ike is a small round lake with a circumference of 4km. Some peat strata have been formed over a long period of time in the northwestern part of the lake to form a low moor. Some of the peat layers have separated to form floating islands which are designated as a national natural monument as they are rarely seen in this relatively warm region.

Serene Shallow Lake:

Imuta-ike is a shallow lake with an average depth of 0.8m and a maximum depth of 2.7m. It has a quiet atmosphere with few human settlements around. Reed and Wild Rice grow in abundance in the wetland. It is a good habitat for a number of wildlife including Spot-billed Duck, Little Grebe, and fish species such as Oryzias latipes and Zacco platypubs.

Dragonflies and the lake:

A typical creature of Imuta-ike is a lentic species of dragonfly. This lake has a suitable ecosystem for the spawing and emergence of dragonflies such as Libellula angelina, Epophthalmia elegans elegans, Sympetrum kunckeli, Trithemis aurora and Rhyothemis fuliginosars.

Approximately 200 species of dragonflies are found in Japan. There are 54 species of dragonflies observed around the Imuta-ike. In particular, Libellula angelina is the most endangered of all wetland dragonflies and Imuta-ike is one of its limited habitats.

Local people have organized conservation groups for Libellula angelina. In addition, a pavilion for ecological conservation "AKUAIMU" has been established on the lakeshore for raising public awareness. To conserve the habitat of this dragonfly, a biotope was created in the western part of the marshland. It is used as a field for environmental learning as well.

In order to protect the peat-forming plant community, which is also an important habitat for Libellula angelina, zoning has been set for fishing and boating on the lake. In relation to non-native fish species that are potential predators of Libellula angelina, a city ordinance prohibits the rerelease of fish caught by fishing or other means, and collection boxes have been placed in the area.



Libellula angelina

[Libellula angelina] A small dragonfly with a body length around 4cm, this dragonfly is recognized by its amber wings with blackish-brown spots. It prefers wetland environments with abundant vegetation and was once widely found in Honshu, Shikoku, and Kyushu. Currently, breeding habitat is highly limited.

Contact Information:

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