

Welcome to Lake Kasumigaura!

Geography

Lake Kasumigaura, located in south-eastern area of Ibaraki Prefecture, consist of three water areas, i.e. Lake Kasumigaura (Lake Nishiura), Lake Kitaura and Hitachi-tone River. Lake Kasumigaura is shallow, but Japan's second largest lake after Lake Biwa.

56 rivers including the Sakura River are inflowing into the lake, and 960,000 people live in the watershed

Lake Nishiura

Cause: Coastal Lake Max. Depth: 7m Mean Depth: 4m Lake Area: 220km²

Lakeshore Line: 252km Lake Capacity: 850 million m³

Lake Type: Eutrophic, Freshwater lake

Water Use: Drinking, Industrial, Agricultural, Fishing

Water Quality

In the 1970's, water quality of Lake Kasumigaura worsened and its eutrophication progressed in the midst of the socioeconomic development in the surrounding region.

As a result, Ibaraki Prefecture Government issued a water quality protection plan for preventing the eutrophication of the Lake and protecting its



Ibaraki Prefectural Government designated the water-familiar summer season (from Marine Day : the third monday in July. 21st to Kasumigaura Day Sept. 1st) as special monthly movement for the water purification of Lake Kasumigaura together with related organizations to perform various events intensively for raising the awareness.



Water quality improvement projects on Kasumigaura Day

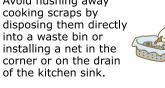
Lake Kitaura

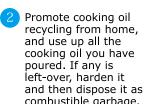
Hitachi-tone River

There is Something You Can Do

Household wastewater from residents living in Lake Kasumigaura basin is the largest cause of pollution. Let's work together to protect the lake staying beautiful. There is 10 ways to improve water quality!

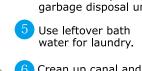
Avoid flushing away cooking scraps by disposing them directly into a waste bin or installing a net in the corner or on the drain of the kitchen sink.

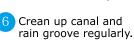


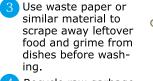


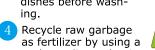


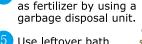


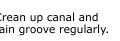




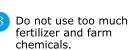




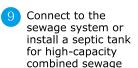


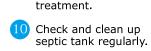






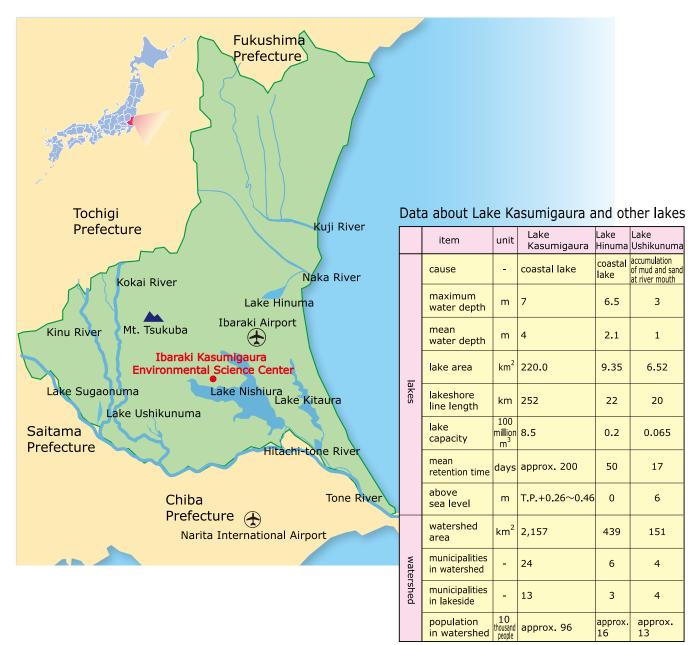
Do not throw trash on







Lakes and Rivers of Ibaraki Prefecture



↑ 茨城県霞ケ浦環境科学センター

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·20 minutes drive from Joban Expressway Tsuchiura-Kita I.O 15 minutes drive from Tsuchiura Station East

> ·25 minutes drive from Kasuigaura bridge ·25 minutes by Bus from JR Tsuchiura Station for Tsuchiura Kyodo General Hospital, get off at Tsuchiura Kyodo General Hospital Bus Stop



Toward the Coexistence of Humans and Nature





coastal accumulation of mud and sand

9.35 6.52

2.1

439

at river mouth

0.065

151









Concept of IKESC

Ibaraki Kasumigaura Environmental Science Center (IKESC) was founded in 2005, after advocation for its establishment at the 6th World Lake Conference held in 1995 in Tsukuba and Tsuchiura.

IKESC aims to effectively perform its four functions - research and technical development, environmental education, cooperation with and support for citizen's activities, and information exchange.

These functions performed through the partnership with citizens, researchers, business companies, and governments in order to tackle issues related to the conservation of lakes and rivers in Ibaraki Prefecture.

The Four Functions of IKESC



esearch and echnical Development

- Studies on mechanisms of eutrophication of lakes in Ibaraki Prefecture.
- Studies on hazardous air pollutants
- Studies on noise, groundwater, and soils
- Provision of a salon where citizens involved in mental conservation can exchange information
- Direct participation of partners (volunteers) in the operation of the IKESC through assisting environmental education and working as staff at conservation events
- Lending equipment for environmental cleanup and education activities
- Provision of subsidies to citizens' groups involved servation activities



ces for environmental activities and

Cooperation with and Support for citizens' activities

Environmenta Education

- Facilities for environmental education Exhibition Room: A comprehensive look at lakes
- and rivers in Ibaraki Prefecture Study Room: Observation, experiments, and
- and ecosystem in a natural
- Environmental education programs
- Lectures and tutorials
- School classes
- Hands-on workshops - Visiting lecture
- Spreading of information through IKESC's
- Provision of a reference library open for everyone
- Hosting of exchange events and symposiums for citizens, reserchers, business companies, and local



Exchange





Research and Technical Development

Water environment group

Study on water quality dynamics and technical development to keep the conditions of Lake Kasumigaura, other lakes and rivers in Ibaraki Prefecture in good states.



- Studies on water quality variation in Lake Kasumigaura
- Studies on the factors for the generation - Studies on external loads from watersheds
- Studies on water environment in Lake Hinuma and Lake Ushikunuma

chemical substance group

This group studies on atomosphere, soils, groundwater and noise.



- Studies on particulate matter (PM2.5)
- Studies on noise

Air environment and



Facility Map

A classroom style auditorium is available

Partitions are also available to separate

Communication Lounge

Space for grassrooters activities

Conference Room

Two rooms are available for various

meeting, sessions, and studying.

*Please make a reservation for use

(Free of charge)

*Please make a reservation for use.

for 200 people.

Capacity of up to 50 participants including the instructor.

Microscope and other equipment

are available.

ference Room

Access to technical books related to

A lending service is partially available.

lake environments etc.

the space into two rooms

overall

map

- Studies on photochemical oxidant
- Sutdies on chemicals in the environment
- Studies on groundwater and soils

Cooperation with and Support for citizens' activities

Salon for citizens' interchange



Salon for citizens' interchange is an open space for public to interchange with each other rough environmental conservation activities.

Lend equipment





ends equipment for environmental conservation activities to citizen groups.

Subsidy to environmental conservation activities





Provides subsidies to citizen groups performing environmental activities and study.

Partners





Volunteers participating in the operation of the IKESC.

Welcome to Lake Kasumigaura

Exhibition Room

Please bring printing paper.

(free of charge)

Let's start learing about Lake Kasumigaura with joy.



Entrance of exhibition facility



Rapid survey map of

Kasumigaura A map made in the Meiji era.

You can freely look into the Exhibition Room.

Learn about global

environmental

enjoying television

problems with

pictures game

History and life around Kasumigaura region



Time cupsule of

A printer is available for grassroots Lake Kasumigaura's unique fishing methods

Think about the global environment Trying for clear water study the cause of water pollution and

learn about what we can do

Our learning space

Learning about creatures and water

quality from various points of view

digital picture

"The Trouble at

Pure's Lake"

Expand your view and learn about global

Wonder Adventure

Creatures of

Kasumigaura

ecosystem and life, industry around

Organisms quiz in Lake Quiz of living organisms in

Lake Kasumigaura are

Watershed Information

Learning about history and land use

regarding Lake Kasumigaura by diolam

eady on the wall

Lake Kasumigaura the present

his is a space where citizens' groups, esearchers, companies, and other entities can display exhibits and present the results and other aspects of environmental activities.

> Hands-on quiz 👚 Think about household wastewater" AR experience

"Our Lake Kasumigaura declaration"

The contest was held to raise awareness of Lake Kasumigaura, for elementary and junior high school students.



Provides oppotunities for environmental

education and visiting lectures.

Environmental Education



fish, insects and wild-birds



Study tours of nature observation. Synthetic study of Lake Kasumigaura quality of water, history, water utilization, industry

Events at IKESC



are held during the waterfamiliar summer season

Information Exchange

Provision of Information

 a center catalogue (once a year) an annual report (once a year)

 announce information of events to supporters

introduction of groups tackling environmental problems, infomation transmission of events information transmission of reserch accomplishment

The number of materials you can borrow is five. Lending period is within 14 days.



Reference room

book related to Lake Kasumigaura and environmental issues.

lending service



Promotes a relationship between school students and citizens by giving opportunity

Using of computer equipment

There are computers in communication lounge and reference room. You may reserve the information desk on the second floor.

Available time is 30 minutes.

Elementaly student may use with a quardian Show identification card or student card