生物多様性を壊す巨大ダム建設(愛知県東部) 日本政府・愛知県は政策転換を!

~生態系·生物多様性を無視した開発·産業政策から 持続可能な社会をめざす統合政策へ~

設楽ダムの建設中止を求める会

Big dam construction breaks biodiversity in the east area of Aichi prefecture. The government of the state and local government must change a policy

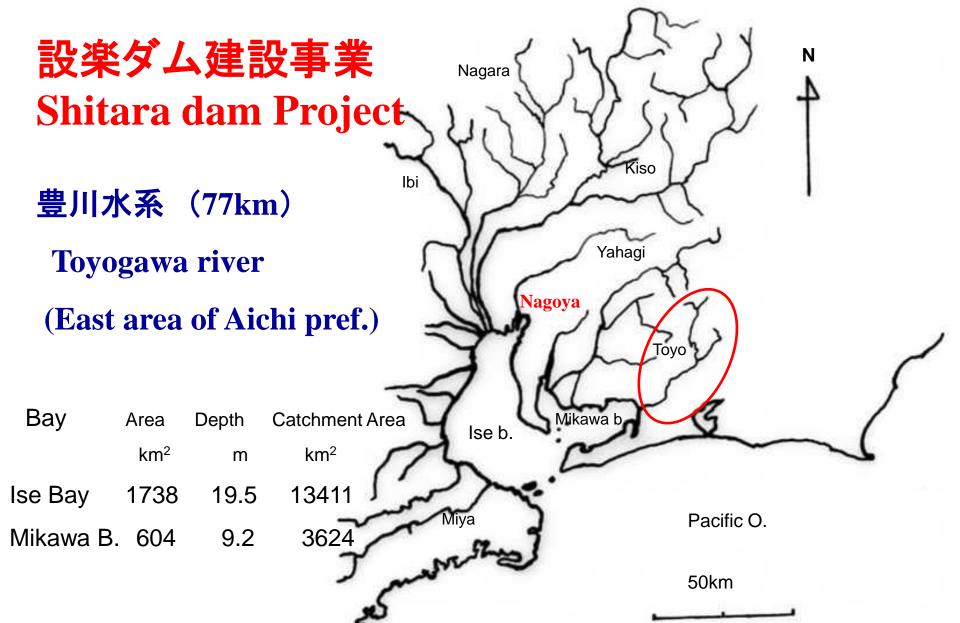
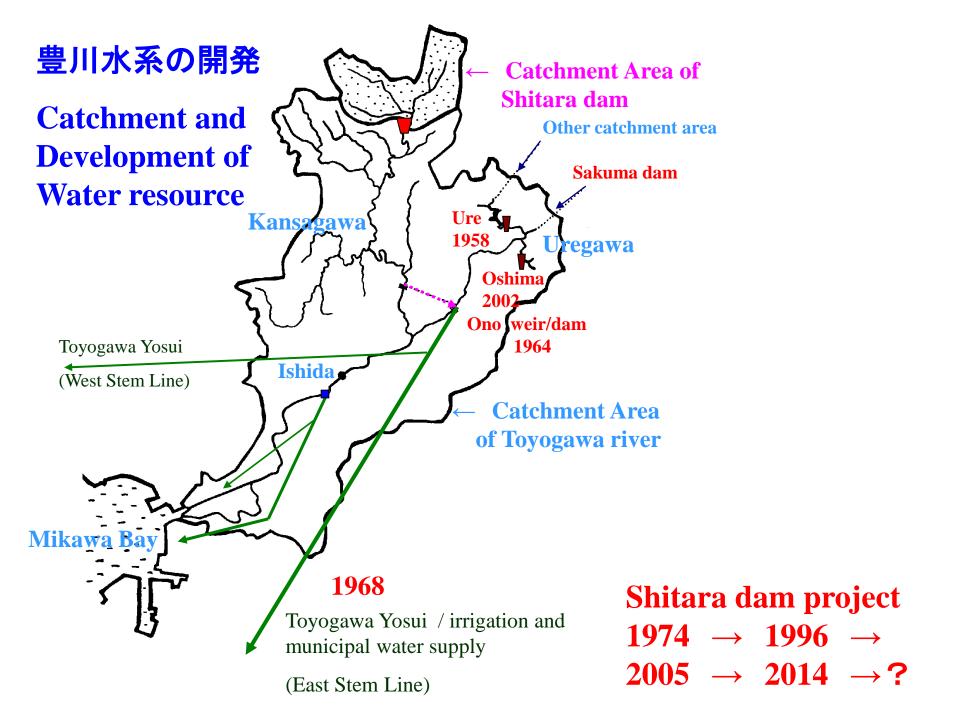


図1 伊勢-三河湾集水域

Fig. 1 Catchment of Ise-Mikawa Bay

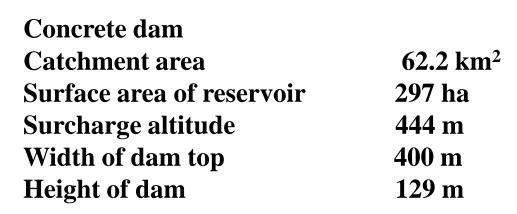


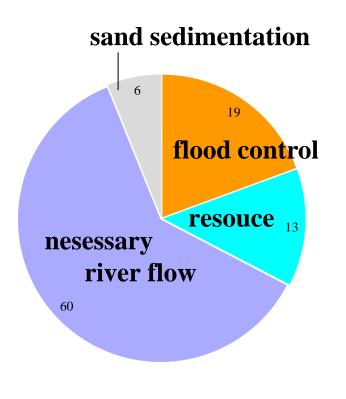
Shitara Dam Project

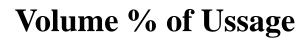
(the first case after the proclamation of the environmental assessment law in Japan)

Toyogawa river, Shitara, Aichi pref. Developer: Chubu-branch of Land Ministry

$98 \times 10^6 \mathrm{m}^3$
92
19
60
6
7



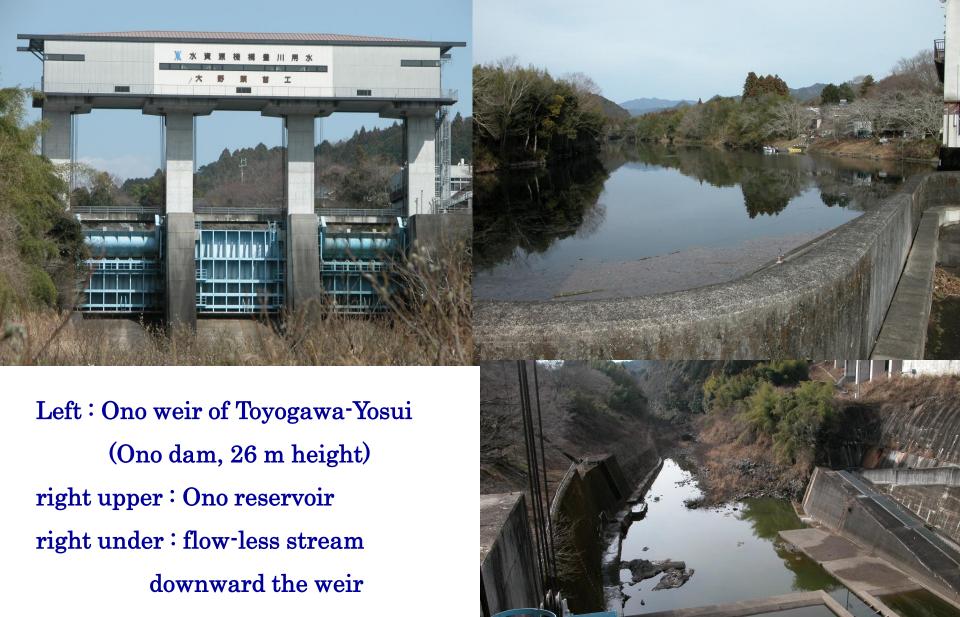




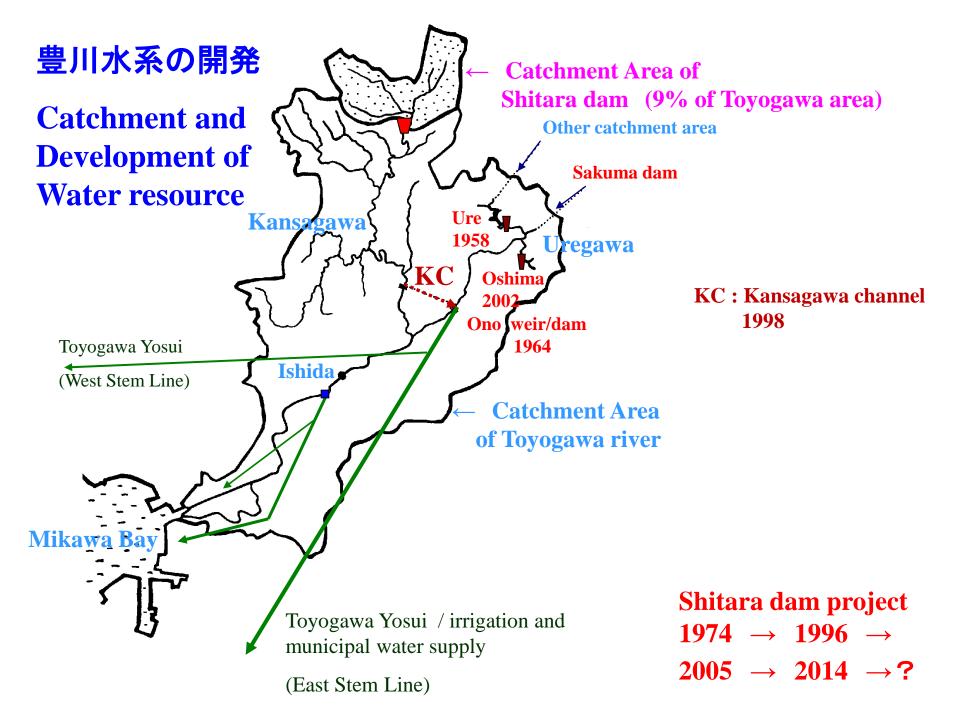
■新規水源 ■流水正常機能維持

■堆砂

■洪水調節









Nekogigi (Pseudobagrus ichikawai) natural monument, endangered species

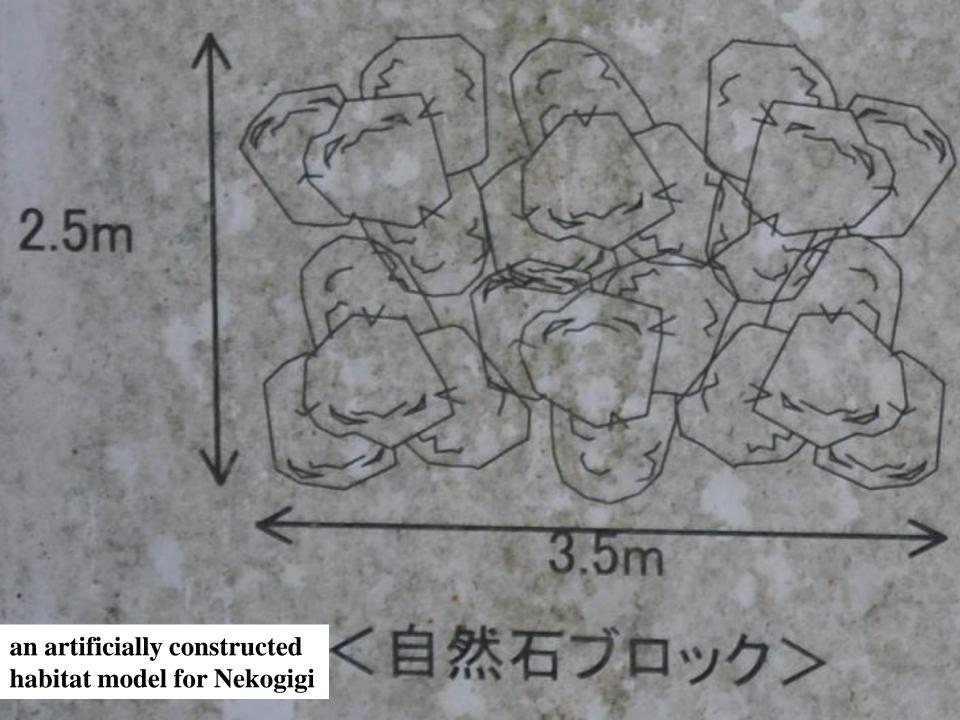
It's habitat is limited in the catchment of Ise Mikawa Bay



ネコギギ(伊勢・三河湾集水域の固有種、国指定の天然記念物、絶滅危惧種IB)、撮影:伊奈紘



The developer tries to transplant the Nekogigi population being submerged in the reservoir to the down stream.





A flood of typhoon in 2011 broke the habitat model constructed rocks.



The broken model habitat, rocks with metal parts of binding were scattered on the river floor. The transplantation experiment was not successful.

Environmental assessment

<Developer>

Limits the area of assessment upper than Huri, Shinshiro

<Citizen's opinion>

Many people expressed that the assessment area should be wide to Mikawa bay

Shitara dam effects on the environment of Mikawa bay

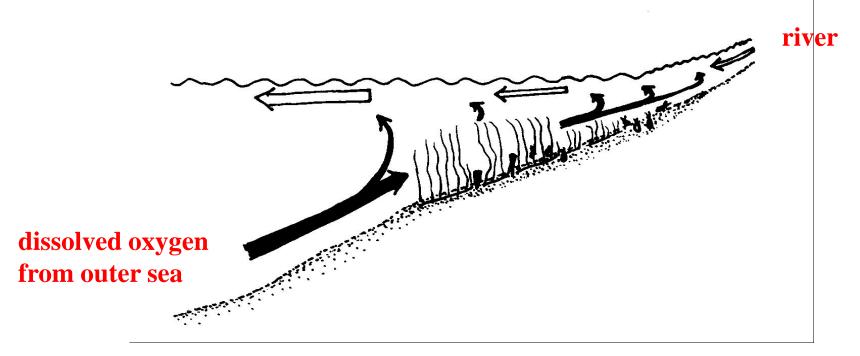
Decrease of inflow of river water to Mikawa bay, espesially in summer season

Depression of estuary circulation in the bay

Growth of hypoxia and occurrence of blue tide

Abolish of benthos and decrease of biodiversity





River water stimulates the estuary circulation, and transportation of dissolved oxygen and also nutrients from outer sea to the bottom of the bay.

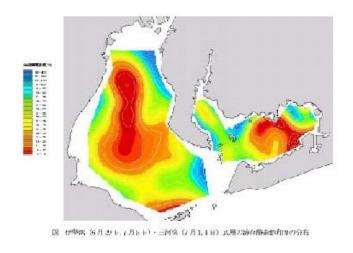
Hypoxia is a major problem to BD in Mikawa bay

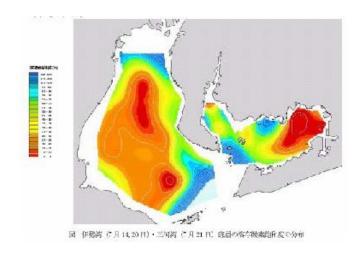
Dissolved oxygen in the bottom region of the bay, 2005,

data by Aichi Fishery Institute

upper: 14, July

under: 21, July









right upper: mountain hawk-eagle

right under: shellfish

Dam construction effects on the environment of the catchment, conspicuously.

