

## Supplementary

### Levee system transformation in coevolution between human and water systems along the Kiso River, Japan

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**Table S1** List of historic maps which used in this study. The year in the column indicates the survey year for each map.

**Maps of Survey Bureau, Army Department, General Staff Headquarters, Imperial Japanese Army (SAGIJ maps) [Scale: 1:20,000]**

Era	1890s
	Shimoike 1891
	Takada-cho 1891
	Tarui 1891
	Ikeno-mura 1891
	Kuwana 1891
	Fukaya-mura 1891
	Ohta-mura 1891
	Takasu 1891
	Funatsuki-mura 1891
	Ogaki 1891
Name of map (area)	Kitagata-cho 1891
	Kiso-kako 1891
	Kanie-cho 1891
	Tsushima-cho 1891
	Inazawa-cho 1891
	Takehana-cho 1891
	Kasamatsu-cho 1891
	Gifu 1891
	Kagamihara 1891
	Inuyama 1891

**Maps of Geospatial Information Authority of Japan (GIAJ maps) [Scale: 1:25,000]**

Era		1920s	1930s	1940s	1960s	1980s	1990s	2000s
Name of map (area)	Komano	1920	1932	1959	1968	1984	1992	2007
	Yoro	1920	1932	1959	1968	1984	1992	2007
	Ogaki	1920	1932	1947	1970	1988	1994	2007
	Ikeno	1920	1932	1947	1970	1984	1994	2007
	Kuwana	1920	1932	1947	1968	1984	1993	2007
	Yatomi	1920	1932	1947	1968	1984	1993	2000
	Tsushima	1920	1932	1959	1968	1984	1992	2007
	Takehana	1920	1932	1959	1968	1984	1992	2007
	Gifu-seibu	1920	1932	1947	1970	1988	1994	2007
	Kitagata	1920	1932	1947	1970	1988	1994	2007
	Ichinomiya	1920	1932	1947	1968	1986	1992	2007
	Kagamihara	1920	1932	1947	1970	1987	1992	2007
	Gifu-hokubu	1920	1932	1947	1970	1987	1992	2007
	Inuyama	1920	1932	1947	1970	1987	1992	1997



**Figure S2** Example of a historical map. Levee marks were visually identified and converted to shape data. This map is based on the Map of Survey Bureau, Army Department, General Staff Headquarters, Imperial Japanese Army [Scale: 1:20,000] published by Geospatial Information Authority of Japan.