

Water quality of rivers Yoshii, Asahi and Takahashi, Okayama Prefecture, Japan

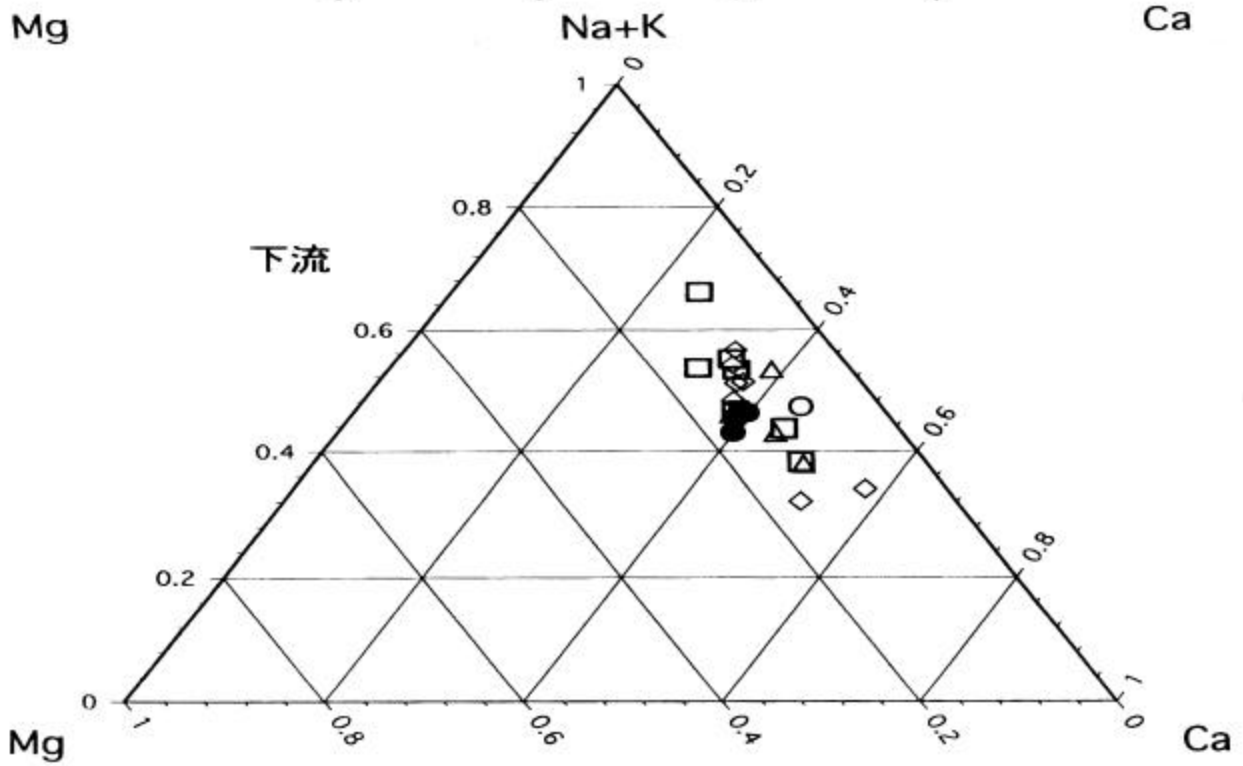
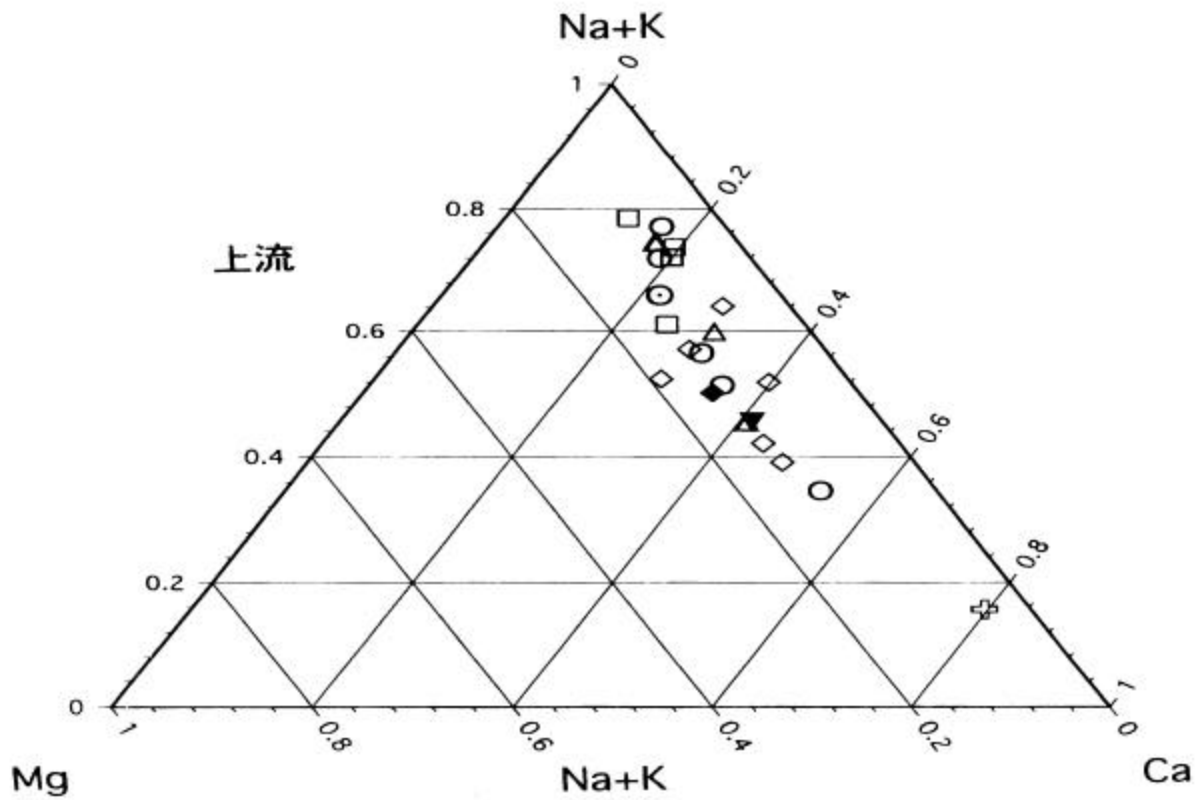
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Water compositions are investigated for three rivers - Yoshii , Asahi and Takahashi, Okayama Prefecture, Japan. The results obtained are as follows: 1. The influence of various rocks to the water composition is limestone >> basaltic rocks > detritus rock > andesite > rhyolite > granite. 2. The influence of geology is clear in the upper stream but it is obscure in the lower stream. 3. The concentration of Ca and HCO₃ vary most largely among the components dissolved in the river water. 4. Concentration of each component increases from the upper stream to the lower stream but that of SiO₂ only decreases. 5. Kaolinite is a stable mineral as a weathering product from the ion compositions.

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3 河川の支流の上流および下流部における主要陽イオン組成

- 花崗岩 ▼閃緑岩 ●斑禰岩 △流紋岩 ○安山岩 ⊙大山火山灰
 ◇泥質岩 ◆塩基性片岩 ⊕石灰岩 ★第四紀堆積物