

# Civilization, Homosapiens and Earth system

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Here I discuss the issues related to civilization from the viewpoint of earth system. The life style based on gather and hunting is considered to be that we utilize the material flow in the biosphere. This means that we live on the earth as one of the species in the biosphere. On the other hand, the life style based on agriculture and inbreeding animals is that we utilize material and energy flows of the earth system. This means that we live on the earth by making a new element of the earth system, which is different from biosphere. I call this element homosphere hereafter. We can define civilization as the way of life on the earth by making homosphere. The flows of material and energy of the earth system becomes different when we started to live on the earth by making homosphere, because the elements of the earth system changed. At present we recognize this change as the environmental change, energy and resource shortage, explosion of population and so on. The relation between homosphere and earth system is dependent on what we design internal structure and system of homosphere. In this talk, I introduce above view on civilization and discuss the present status and future of homosphere.