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Annually banded geological materials on land as archives of low latitude paleoenvironments - example of stalagmite

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Annually banded materials are valuable geological archives at high time resolution. For example, there are glacial varves, lacustrine varve sediments, speleothems in limestone cave and corals. Land region is originally erosion area, and its preservation potential of information is lower than sea region. Geological materials having the high resolution record on land are glacial varves, lacustrine varve sediments, speleothems in limestone cave and tree rings. We selected the stalagmites as materials with high resolution record of tropical climatic change in Indonesia, in the activity of 21st Century COE project, Elucidation of Active Geosphere. Many important researches on mid-latitude monsoon changes are published after 2000 (Wang et al., 2001 etc). We will introduce the significance and problem of the research on the speleothems as a material of high resolution paleoenvironment recorder at low latitude region.