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Measurement of radiocarbon variations in Yaku cedar for Sporer minimum

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Interplanetary magnetic field changes with 11-yr periodicity of solar activity. That magnetic field modulates the flux of cosmic ray traveling toward the earth. By measurment of radiocarbon which is produced by cosmic ray, one can know the past solar activity.

Previously, Kocharov et al. measured radiocarbon content in tree rings during Maunder minimum(1645-1720) with high accuracy and found that solar activity followed 22-yr periodicity. It is very interesting and important whether the 22-yr periodicity is common or not in other solar minima.

In order to study solar activity for sporer minimum(1415-1534), we start measurment of radiocarbon content in tree rings of Yaku cedar.