**Anthropocene:**

**The contemporary(current time) conjecture(guess not based on proof)**

**The proposed current geological epoch in which humans are the primary cause of permanent planetary change**

**Age of Humans**

**Use: Crutzen and Stoermer (2000), The “Anthropocene”**

**Notable changes:**

**→expansion of mankind in the past three centuries in numbers (a ten-fold increase)**

**→urbanization has increased tenfold in the past century**

**→per capita exploitation of earth’s resources**

**→emission of CO2, SO2, NO, CO**

**→The “Anthropocene” – the central role of humans**

**Date:**

**The dating debate**

**→Crutzen and Stoermer – industrialization(18th century)**

**→CO2 increased from 270-275 ppm to 310 ppm in the 1950s**

**→Steffen→ 1950s syndrome→big development→”Great Acceleration” →from linear to exponential graph**

**Stratigraphic Signatures**

**The Anthropocene Working Group→ Quaternary Stratigraphy→International Commission on Stratigraphy →International Union of Geological Sciences**

**Evidence**

**→new materials, such as elemental aluminum, concrete, plastic, and carbon particles**

**→alterations in the processes of sediment creation**

**→altered geochemical signals in sediments and ice sheets**

**→increases in nitrogen and phosphorus**

**→alterations in biodiversity**

**“The Anthropocene is functionally and stratigraphically different from the Holocene”(Waters et al. 2016)**