HOW WE DISCOVER THE PAST The Evidence of the Past ✓ Artifacts ✓ Ecofacts ✓ Fossils √ Features Artifacts · Anything made or modified by humans Most common artifacts are <u>lithics</u> · Also find: - Ceramics - Wood - Bone - Metal / Glass

Ecofacts

- Natural objects that have been used or affected by humans
 - Bones of animals
 - Pollen from plants, humans
 - Insects and animals that associate with humans

Fossils

- An impression of an insect or leaf on a surface that is now stone, or
- The hardened remains of an animal's skeleton

Features

- A kind of artifact that is an intrinsic, non-poratble part of an archaeological site.
 - Hearths
 - Pits
 - Living Floors
 - Middens
 - Buildings

Finding the Evidence

- Sites are created when remnants of human activity are covered or buried by some natural process.
- Taphonomy the processes of site destruction or disturbance.

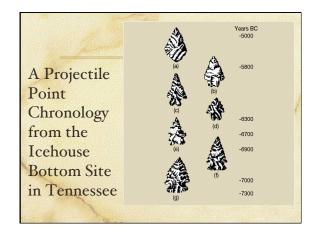
Finding the Evidence

- · How are sites found?
 - ✓ Pedestrian survey
 - ✓ Remote sensing
- How are Artifacts, Ecofacts, and Features recovered from sites?
 - ✓ Excavation

Analyzing the Evidence

- · Conservation and Reconstruction
 - Conservation: the process of treating artifacts, ecofacts and even features to stop decay and, if possible, even referse deteriotation.
 - Reconstruction: where materials are sorted into similar types and then reassembled.
- What can we learn from Artifacts?
 - ✓ Form, Size, Function, and Use

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Standard Metrical
Measurements of
Chipped Stone
Tools

Maximum width
Neck width
Proximal

Analyzing the Evidence

What can we learn from Fossils?

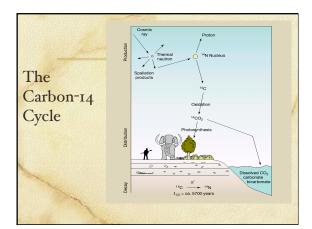
- Bones and teeth tell us a great deal about extinct animals what they ate
- ✓ Dentition tells us about the relative size of animals.
- ✓ Posture and locomotion from fragments.
 - Proportions of the brain allocated for specific functions - and the reliance on smell and vision
- ✓ Ancient climate and habitat

Analyzing the Evidence What can we learn from Features? Tools of Analysis Mapping ✓ Records about the feature Analyzing the Evidence **Putting it all in Context** Context - the relationship between and among artifacts and other materials. The goal of paleoanthropologists and archaeologists is to decipher what occurred in the past **Dating the Evidence** · Relative Dating Methods ✓ Stratigraphy ✓ Indicator fossils √ F-U-N trio

Dating the Evidence

Absolute, or Chronometric Dating Methods

- Radiocarbon Dating
- ✓ Thermoluminescence Dating
- ✓ Electron Spin Resonance Dating
- ✓ Paleomagnetic Dating



Dating the Evidence

- ✓ Potassium-Argon Dating and Argon-Argon Dating
- ✓ Uranium-Series Dating
- √ Fission-Track Dating