Bridging Q's

Day 6

Goals: As a result of today's teaching you should be able to explain the significance of active earth processes.

Breakfast: Earth is a complex system of interacting rock, water, air and life.

If we go see what is happing now, will it teach us anything? How much is one day's geological observations like another?

Are layered rocks typically horizontal? How can rock layers be tilted?

How would a conglomerate form? Would you expect to see them without hills or mountains?

Geologists make maps of the bedrock types based on looking at the rocks. Some rocks are found which are very much unlike any rocks being formed anywhere nearby today. How can this be explained?

Eagle River Bridge locality

How do we know that glacial deposits are the youngest rocks in this area?

What sort of weather was here during the glacial retreat?

How does the surface material in a particular place affect solar heating and cooling? What is albedo?

Redwyn Dunes

What would happen to the water table in a dune?

How would dunes affect the vegetation?

Why are these dunes covered with vegetation?

How does a dune become active again?

Should there be regulations about building on dunes in Michigan?

Great Sand Bay

Could dumping of stamp sand on the Keweenaw surface 100 years ago simulate a dune forming condition?

Can we look at the stamp sand deposits and infer something about the conditions of formation? What fossils would be likely?

Are there sedimentary formations that resemble the stamp sands?

Owl Creek Sands