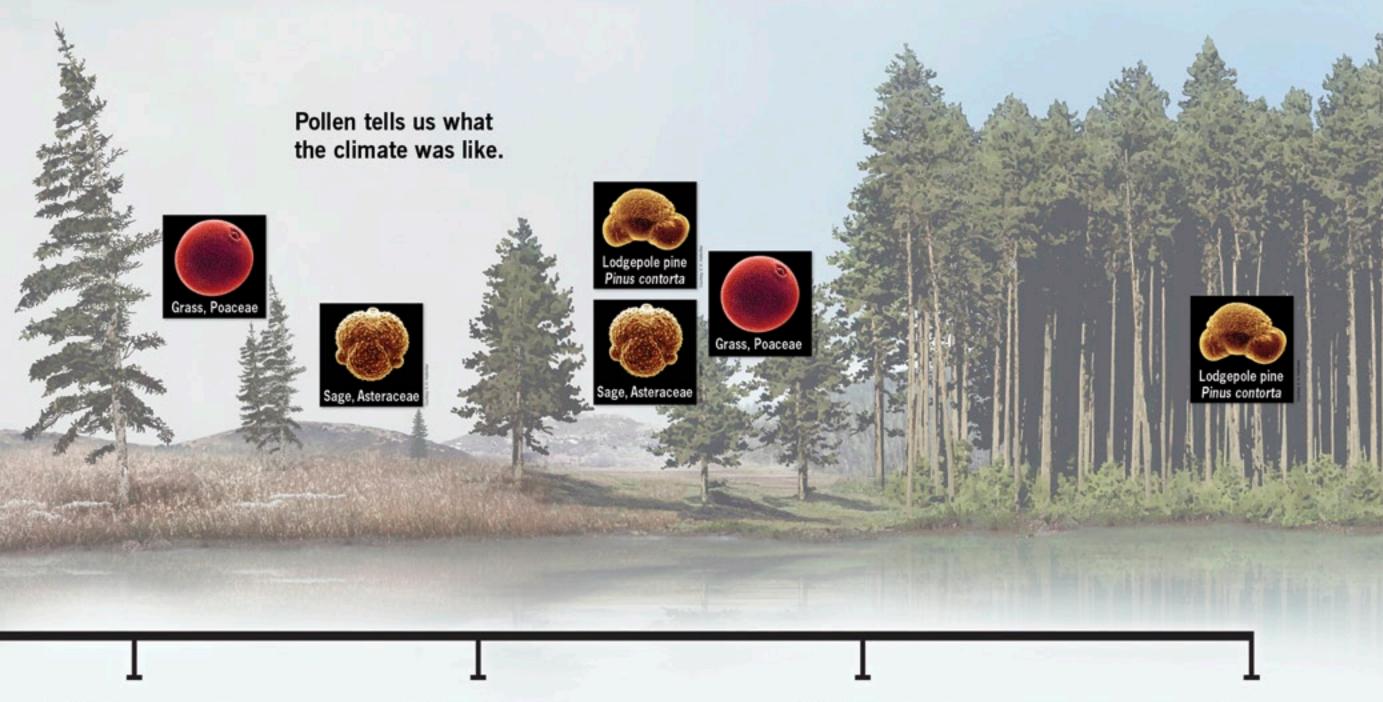
## Timeline of Diatom Evolution

Deep beneath the surface of Yellowstone Lake, scientists have found the most complete fossil record of the evolution of a new species.



14,000 years ago Climate cold and wet

12,000 years ago Climate warm and dry

10,000 years ago Climate very warm and dry

Today Climate warm



Ancient relative of Stephanodiscus niagarae Transitional forms

Stephanodiscus yellowstonensis

Stephanodiscus yellowstonensis

A new species of diatom evolved in response to climate change.