

CLIMATE CHANGE COLLECTION SCORECARD

Date:3/12/05

Reviewer: Ellen DeBacker

Name of resource: The climate time machine activity: Using fossil pollen to study climate change

Sponsoring Organization: UCAR and Maine Dept. of Ed., EPA modified report

URL: : <http://mainegov-images.informe.org/dep/air/education/pollenactivity.pdf>, also

http://www.ucar.edu/learn/1_2_2_10t.htm

Site Homepage: <http://www.maine.gov/dep/air/education/ap101climatech.htm>, also <http://www.ucar.edu/learn>

RESOURCE WITHIN A SITE? **Y** / N

FOUND THROUGH DLESE? **Y** / N

IF SO, WHICH COLLECTIONS? UCAR site is catalogued

RECOMMENDATION **YES** YES WITH RESERVATIONS NO

STARS 1 2 3 4 **5** (LAME TO STELLAR)

NARRATIVE (USE OTHER SIDE IF NEEDED)

This activity has students investigate ancient climates by using fossil pollen in a simulation. There is a choice of looking at data for Washington or Colorado. I prefer the layout of the UCAR site as it is much easier to use and access all the additional data.

INTENDED USE

REFERENCE

COMPUTER ACTIVITY

NON-COMPUTER ACTIVITY

EDUCATOR, LEARNER OR **BOTH** (CIRCLE) IF FOR LEARNER, EVIDENCE ITS BEEN TESTED? **Y** / N

BEGINNER OR ADVANCED (CIRCLE)

Easily Printed? **Y** / N

The UCAR site is not on PDF, but lays out better.

BUGS & TECHNICAL DIFFICULTIES (PROBLEMATIC TO ROBUST)

1 2 3 **4**

COMMENTS

SCIENTIFIC ACCURACY- FACTUAL ERRORS/OMISSIONS (NATIONAL ENQUIRER TO NATIONAL GEOGRAPHIC)

1 2 3 **4**

EVIDENCE IT HAS BEEN REVIEWED FOR ACCURACY? **Y** / N

COMMENTS

Assumed since it is an UCAR site.

PEDAGOGICAL INFORMATION

REFERENCE ONLY

TEACHER GUIDE

MATERIALS LIST

ASSESSMENT STRATEGIES

TIMEFRAME PROVIDED

STANDARDS ALIGNMENT INDICATED

PROMOTES STUDENT LEARNING (WEAK TO STRONG)

1 2 3 **4**

COMMENTS

Good hands on understanding of how scientists would conduct an exploration into what ancient climates would be. It is simplified, so would need reference into the difficulties scientists would have in doing this.

APPROPRIATE/EFFECTIVE MULTIMEDIA DESIGN (WEAK TO STRONG)

1 2 3 **4**

COMMENTS

Appropriate to use.

VISUAL APPEAL (WEAK TO STRONG)

1 2 3 4

COMMENTS

Appropriate to use.

TEACHING TIPS: ANNOTATION DESCRIBING HOW SITE COULD BE USED OR ADAPTED FOR CLASSROOM

This would be a good simulation to use with other simulations that help show scientists what past climates were like, and to then show how that helps us to understand what future climate changes could be.

RECOMMENDATION: ANNOTATION DESCRIBING HOW THE DEVELOPER COULD IMPROVE THE SITE.

I much prefer the UCAR version to the Maine Dept. of Ed version.

Revised 12/3/04