Climate Change Collection Scorecard

Date: 11/27/04
Reviewer: Jack Ganse
Name of resource: The Greenhouse Effect
Sponsoring Organization: UCAR LEARN
URL: http://www.ucar.edu/learn/1_3_1.htm
Site Homepage: http://www.ucar.edu/learn/index.htm

RESOURCES WITHIN A SITE? Y / N
FOUND THROUGH DLESE? Y / N

RECOMMENDATION YES YES WITH RESERVATIONS NO
STARS 1 2 3 4 5 (LAME TO STELLAR)

NARRATIVE (USE OTHER SIDE IF NEEDED)
This site provides comprehensive background information on the greenhouse effect. Topics range from solar radiation, greenhouse gases, Earth’s radiation budget, to the greenhouse effect itself. Two hands-on activities about greenhouses with both teacher and student guides are also included.

INTENDED USE
X REFERENCE

X COMPUTER ACTIVITY

X NON-COMPUTER ACTIVITY

EDUCATOR, LEARNER OR BOTH (CIRCLE)
BEGINNER OR ADVANCED (CIRCLE)

BUGS & TECHNICAL DIFFICULTIES (PROBLEMATIC TO ROBUST)
1 2 3 4
COMMENTS: None

FACTUAL ERRORS/OMISSIONS (NATIONAL ENQUIRER TO NATIONAL GEOGRAPHIC)
1 2 3 4
COMMENTS: Although it does use both the “blanket” and “heat trap” references, the site does go on to explain and show how the greenhouse effect works at the molecular level. There, it is quite unique in its explanation compared to other resources. The site clearly points out that the analogy that the Earth’s atmosphere acts like a greenhouse does have its limitations.

PEDAGOGICAL INFORMATION
REFERENCE ONLY

X TEACHER GUIDE

X MATERIALS LIST

X ASSESSMENT STRATEGIES

TIMEFRAME PROVIDED

STANDARDS ALIGNMENT

PROMOTES STUDENT LEARNING (WEAK TO STRONG)
1 2 3 4
COMMENTS: Using the complete package including teacher guide, student guides, and the hands-on activities will lead both teachers and students to much better understanding of the greenhouse effect.

APPROPRIATE/EFFECTIVE MULTIMEDIA DESIGN (WEAK TO STRONG)
1 2 3 4
COMMENTS: Graphic and animation provide solid support for the text.

VISUAL APPEAL (WEAK TO STRONG)
1 2 3 4
COMMENTS: Easy-to-read; mostly text, but ample graphics and one animation. No printer-friendly student pages.

TEACHING TIPS: ANNOTATION DESCRIBING HOW SITE COULD BE USED OR ADAPTED FOR CLASSROOM
Great background material for any knowledgeable teacher. The site provides questions designed to assess students' knowledge and understanding of the greenhouse effect and leads to two activities about greenhouses that are
aligned to standards and fully outlined with materials, procedures, time, and assessment ideas.