

CLIMATE CHANGE COLLECTION SCORECARD

Date: 12/04/04

Reviewer: Carrie Morrill

Name of resource: Atmospheric Processes-Radiation

Sponsoring Organization: UCAR Project Learn

URL: http://www.ucar.edu/learn/1_1_2_5t.htm

Site Homepage: <http://www.ucar.edu/learn>

RESOURCE WITHIN A SITE? Y / N

FOUND THROUGH DLESE? Y / N

IF SO, WHICH COLLECTIONS? DLESE Community Collection, CRS Annotated Collection

RECOMMENDATION YES YES WITH RESERVATIONS NO

STARS 1 2 3 4 5 (LAME TO STELLAR)

NARRATIVE Activity that compares albedos and specific heats of light soil, dark soil, and water. Relates this to climate and weather.

INTENDED USE

REFERENCE

COMPUTER ACTIVITY

NON-COMPUTER ACTIVITY

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

BEGINNER OR ADVANCED OR BOTH

Easily Printed? Y / N

BUGS & TECHNICAL DIFFICULTIES (PROBLEMATIC TO ROBUST)

1 2 3 4

SCIENTIFIC ACCURACY (NATIONAL ENQUIRER TO NATIONAL GEOGRAPHIC)

1 2 3 4

EVIDENCE IT HAS BEEN REVIEWED FOR ACCURACY? Y / N

PEDAGOGICAL INFORMATION

REFERENCE ONLY

TEACHER GUIDE

MATERIALS LIST

ASSESSMENT STRATEGIES

TIMEFRAME PROVIDED

STANDARDS ALIGNMENT

PROMOTES STUDENT LEARNING (WEAK TO STRONG)

1 2 3 4

COMMENTS: Hands-on activity with some good discussion questions listed at end. I like the analogy of a campstove to explain radiation, convection and conduction. However, it might not be necessary for this activity.

APPROPRIATE/EFFECTIVE MULTIMEDIA DESIGN (WEAK TO STRONG)

1 2 3 4

COMMENTS: Nothing fancy.

VISUAL APPEAL (WEAK TO STRONG)

1 2 3 4

COMMENTS: Nothing fancy. Useful image of experimental setup.

TEACHING TIPS: This activity has some similarities to another UCAR activity about albedo. I think the activity described here is simpler (has fewer variables) and perhaps more likely to succeed.

RECOMMENDATIONS FOR DEVELOPER: Background material could be improved to more closely align with the activity. It is not important that students know about convection and conduction. It would be maybe be more appropriate to provide background information about the different surface types on earth.