

# CLIMATE CHANGE COLLECTION SCORECARD

Date: 11/29/04

Reviewer: Carrie Morrill

Name of resource: What factors impact a greenhouse?

Sponsoring Organization: UCAR

URL: [http://www.ucar.edu/learn/1\\_3\\_2\\_13t.htm](http://www.ucar.edu/learn/1_3_2_13t.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 *Hands-on activity about albedo. There is some good stuff here, but additional thought and caution are needed to present the concepts more accurately.*

## 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

COMMENTS: Everything works fine.

SCIENTIFIC ACCURACY (NATIONAL ENQUIRER TO NATIONAL GEOGRAPHIC)

1 2 3 4

EVIDENCE IT HAS BEEN REVIEWED FOR ACCURACY? Y / N

COMMENTS: *Learning goals of the exercise are misleading: albedo does not affect the "heat-trapping ability of a greenhouse" – the concentrations of greenhouse gases do that. There can be feedbacks between the greenhouse effect and albedo, and albedo can itself influence the earth's radiative balance. The learning goals of the exercise should be based around these points.*

## 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. Learning goals need to be revised.*

APPROPRIATE/EFFECTIVE MULTIMEDIA DESIGN (WEAK TO STRONG)

1 2 3 4

COMMENTS: *Clear graphics illustrating experimental design.*

VISUAL APPEAL (WEAK TO STRONG)

1 2 3 4

TEACHING TIPS: *Review the comments made above about scientific accuracy.*

RECOMMENDATIONS FOR DEVELOPER: *Correct statements about albedo influencing the heat-trapping ability of a greenhouse.*