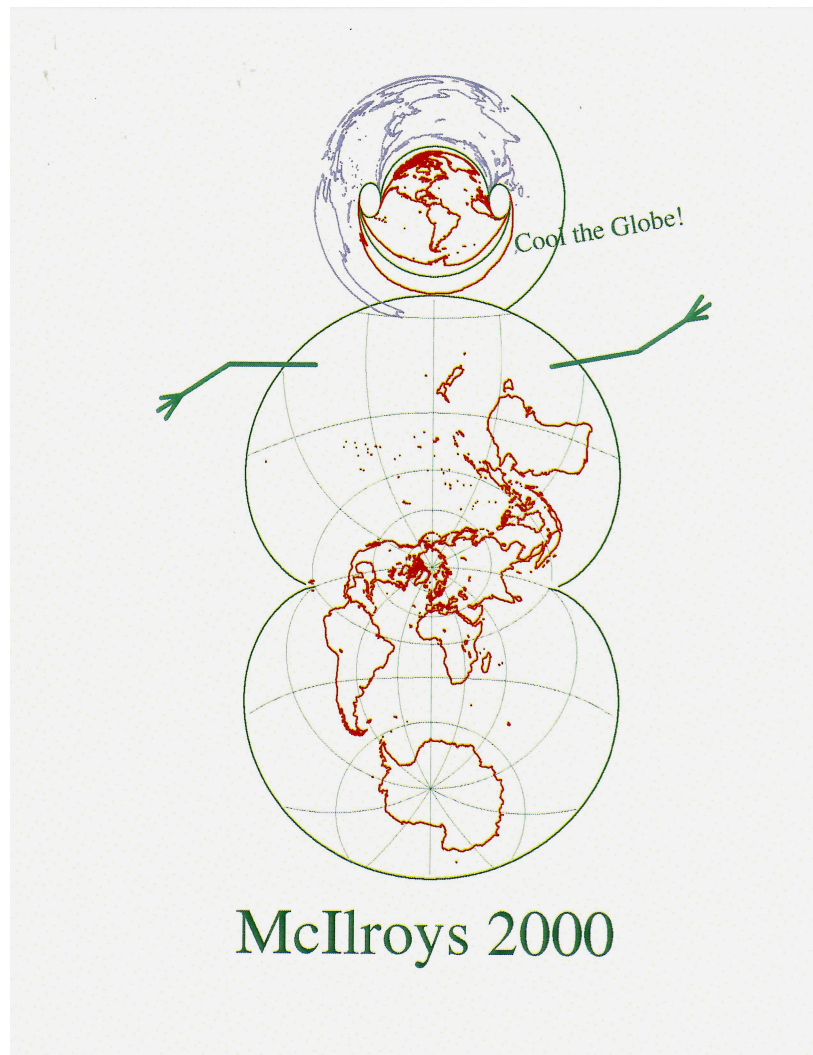


Eisenlohr Projection



The snowman's face, with Asia for a hat and Australia for a tassel, is a direction-finding map (McIlroys' 1994 card). The body, a projection by Eisenlohr (1870), is conformal: the shape of any small area is true. The globe has been cut 'pole to pole' and stretched flat, with poles chosen so that no land is cut. The scale varies by only 5 over the whole globe. By contrast, in Mercator's projection, also conformal and cut pole to pole, the scale varies infinitely.

Eisenlohr's projection is one of very few that are known to be best in class. It has the least scale variation among all conformal projections of a globe opened by a 180° cut. Unlike other projections of the class in this collection (cards for [1985](#), [1998](#), [2011](#) and [2020](#)), Eisenlohr's has no singularities. The card's claim about scale is too rosy; in fact the scale along the edge is about 5.76 times the scale at the center.