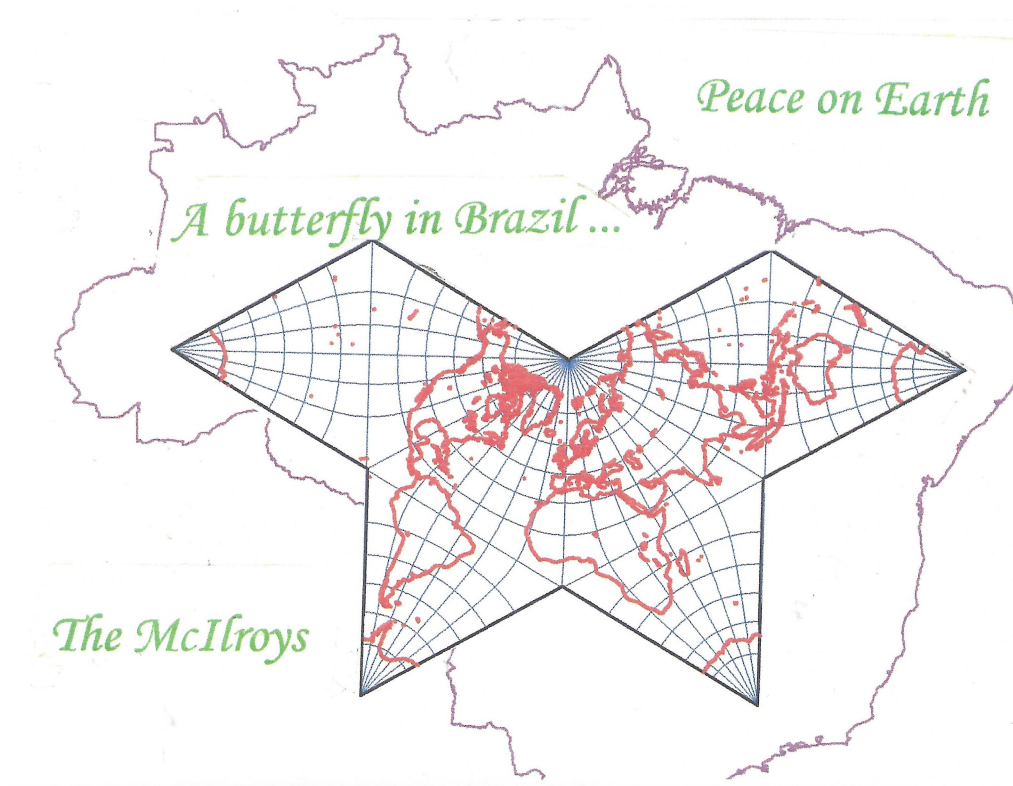


## Conformal Octahedron



With Brazil for a background, the card plays off the famous title of a talk by Edward Lorenz on chaos in meteorology, “Does the flap of a butterfly’s wings in Brazil set off a tornado in Texas?” The map is an unfolded conformal projection on an octahedron. It can also be seen as part of a six-pointed star, with the original  $360^\circ$  pie (as described for the [2005](#) card) squeezed, conformally of course, into  $240^\circ$ . Being conformal, this projection crosses edges of the octahedron smoothly. In contrast, the octahedral ornaments on the [1993](#) card are made by gnomonic projection (projection outward from the center of an enclosed globe). If the ornaments were unfolded, lines would veer sharply where they cross edges.