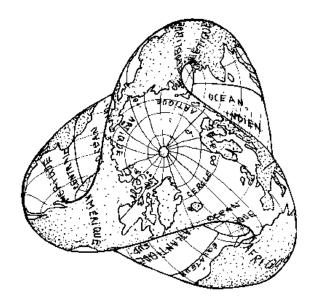
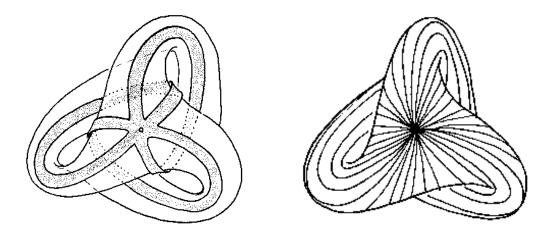
BOY's SURFACE

Boy's surface, discovered in 1902, is a representation of the projective plane without infinities and singularities. According to the whimsical and delightful book by Jean Pierre Petit "Le Topologicon", it can be pictured as a planet with only a single pole (the "south" pole

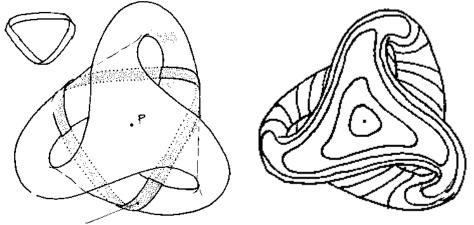


would be on the inside immediately below the north pole on the "other side" of the single-sided surface).

Meridian strips leading from the north pole to the south pole and back form single sided Moebius bands:



THREE MOEBIUS BANDS THROUGH THE POLES - - - - - - MERIDIAN LINES Similarly an equatorial band also forms a (triply twisted) Moebius band:



EQUATORIAL BAND - - - - - - "PARALLEL CONTOURS"

Sometimes it is easier to visualize this surface in a "cubist" realization -- and it is definitely easier to make a cardboard model in this form:

