## Scaling phenomena





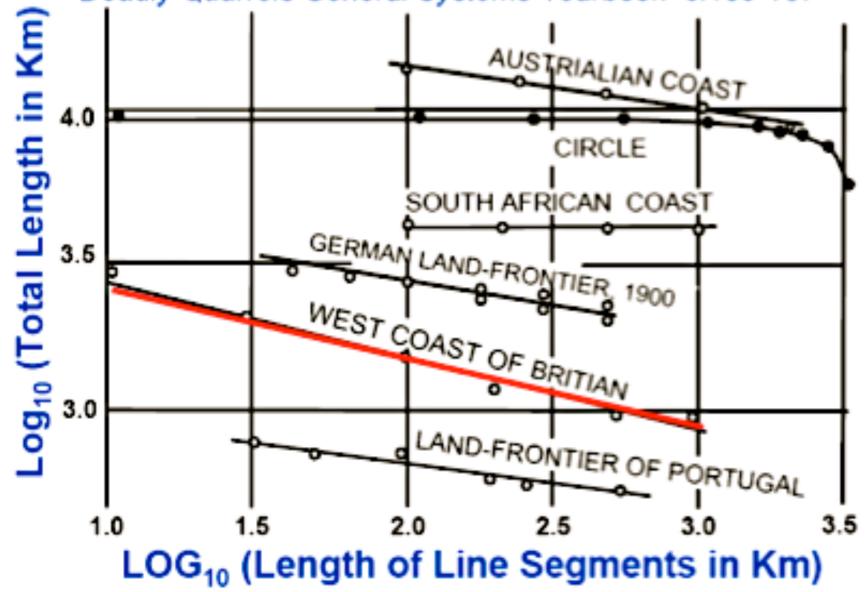
## "scaling of bulk with size" (Theiler, 1990)

## The formal answer to the question is:

"There is no characteristic scale at which the length of the coast of GB can be expressed"

## How Long is the Coastline of Britain?

Richardson 1961 The problem of contiguity: An Appendix to Statistics of Deadly Quarrels General Systems Yearbook 6:139-187



Scale invariance...

A *power law* scaling relation (**LOG scale**): There is no characteristic length, just an indication of complexity

