Regional predictability variations

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It is traditionally thought that regional losses in predictability are an evidence of the instability of the underlying flow. While this may be appealing on the surface, a deeper analysis indicates that this could be a signature of other factors, which may be even more dominant. It is evident from Takens' theorem that in the absence of model error, model state space versus system state are contributing factors. Appealing to an experimental circuit, it is demonstrated that model error and model state space play crucial roles. It is also found that model state space contribution may dominate model error. The tool used is the time for initial uncertainty orientations to increase by a factor of q, called q-pling times. One cannot be too careful not to confuse the map with the territory.