What should be considered for coping with huge floods when only small to medium size historical data are available?

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It is shortsighted to insist that it is impossible to forecast huge floods events when only small to medium size historical flood data. It is important to figure out the non-linearity of flow and the structural non-linearity of flow fields. The most important thing to be considered during identification processes is to figure out the non-linearity of flow and the structural non-linearity of flow fields rather than to fitting of model parameters.

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