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2 Spatial and spatio-temporal data Spatial data are defined as

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realisations of a stochastic process indexed by space  $Y(s)$   $f_y(s); s \in D$  where  $D$  is a (closed) subset of  $R^d$  (here we consider  $d=2$ ). The actual data can be then represented by a collection of observations  $y = \{y(s_1), \dots, y(s_n)\}$ , where the set  $\{s_1, \dots, s_n\}$  indicates the spatial units at which the measurements are taken.

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structural analysis consists in fitting a theoretical admissible model to the sample space–time variogram.

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