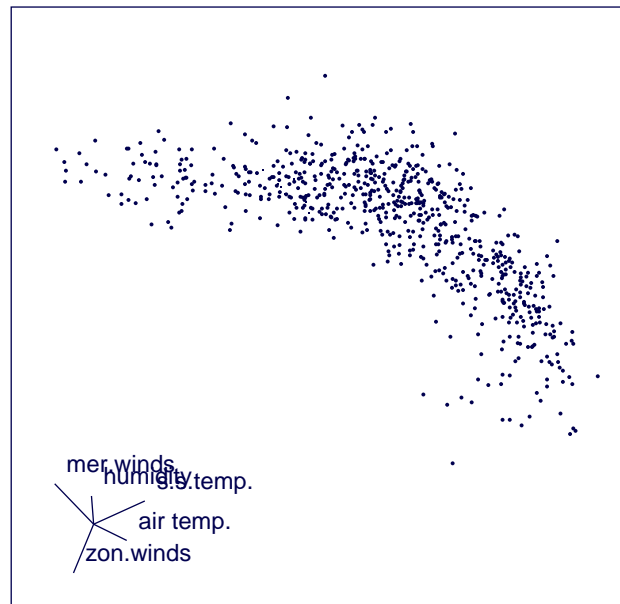


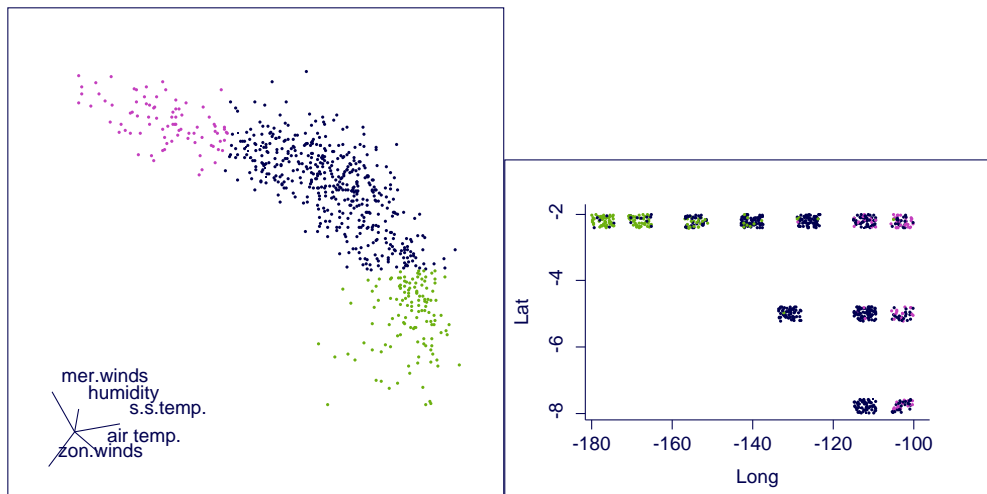
## TAO buoys (Subset, Monthly ave): Grand Tour



(All missings removed.) Non-linear dependency.

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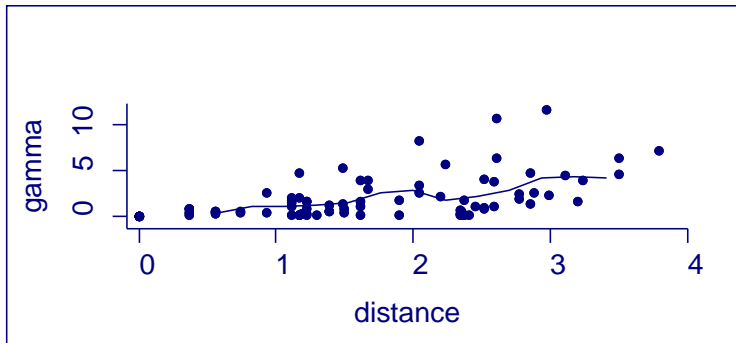
## TAO buoys (Subset, Monthly ave): Grand Tour



Dependency corresponds strongly to location.

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## TAO buoys (June 1993): Spatial Dependence



Interactive smoothing in the variogram cloud of Sea Surface Temperature.

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## TAO buoys (June 1993): Spatial Dependence

Classical variogram cloud:

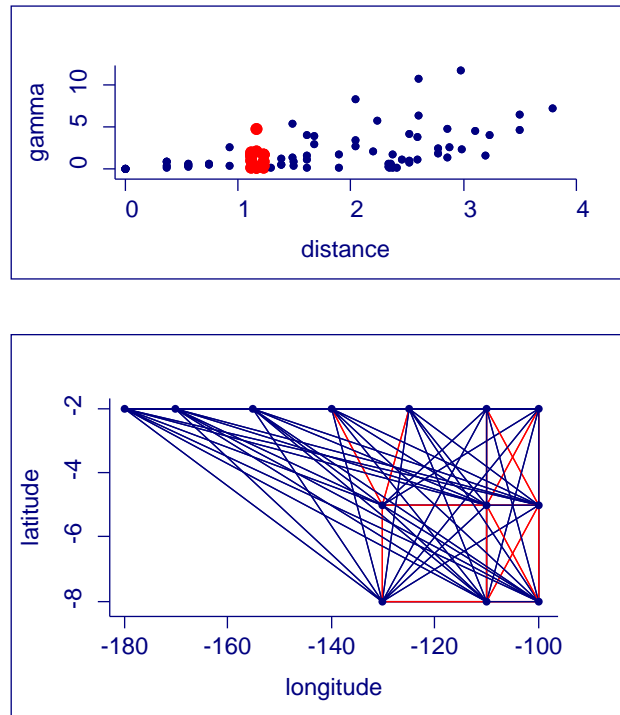
$$\gamma_{ij} = (yield_i - yield_j)^2 \text{ vs } distance_{ij} = \sqrt{(x_i - x_j)^2 + (y_i - y_j)^2}$$

Latitude and Longitude values were standardized.

ArcView-XGobi link does robust variogram-cloud (Cressie, 93), along with multivariate cross-variogram, lagged scatterplots, and spatial CDFs.

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## TAO buoys (June 1993): Spatial Dependence



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## TAO buoys (June 1993): Spatial Dependence

Looking for spatial anomalies: variogram cloud points linked to lines between pairs of locations.

Point to line linking requires that the number of lines in one XGobi equal the number of points in the other XGobi.

S function available for constructing the data sets.

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