**genran.r**

**Purpose**  This function is used to generate spatially random points

**Version Control**  Likely numerous versions of this kicking around.

**Required packages** PBSmapping , spatstat, splancs

**Locally Derived Functions**

1. None

**Section 1**

Basically you give the function the number of points you want and a polygon from which to select and it produces a random distribution of points within that polygon. If you specify the “minddist” then the function will resample until all the points are this minimum distance from each other. You can set a seed so that the survey design is repeatable as well.

***Argument(s)***

1. npoints The number of points to generate
2. bounding.poly The boundary polygon for the bank.
3. projection The projection of the data. Default = "LL"
4. mindist The minimum distance between points. Default = 1, this is used in

genran and if repeated tows to weed out tows too close to each other

1. seed Set a seed so that your results can be reproduced. Default = NULL which

uses R random number generation. Any integer will result in producing a reproducible random number draw.