

DISTRIBUIÇÃO DE TREMORES DE TERRA

marlon - mmd



metodologia

- * comparar a distribuição de distâncias entre dois conjuntos de sismos (reais e aleatoriamente espaçados) e feições geológicas “recentes” buscando correlações.

tools

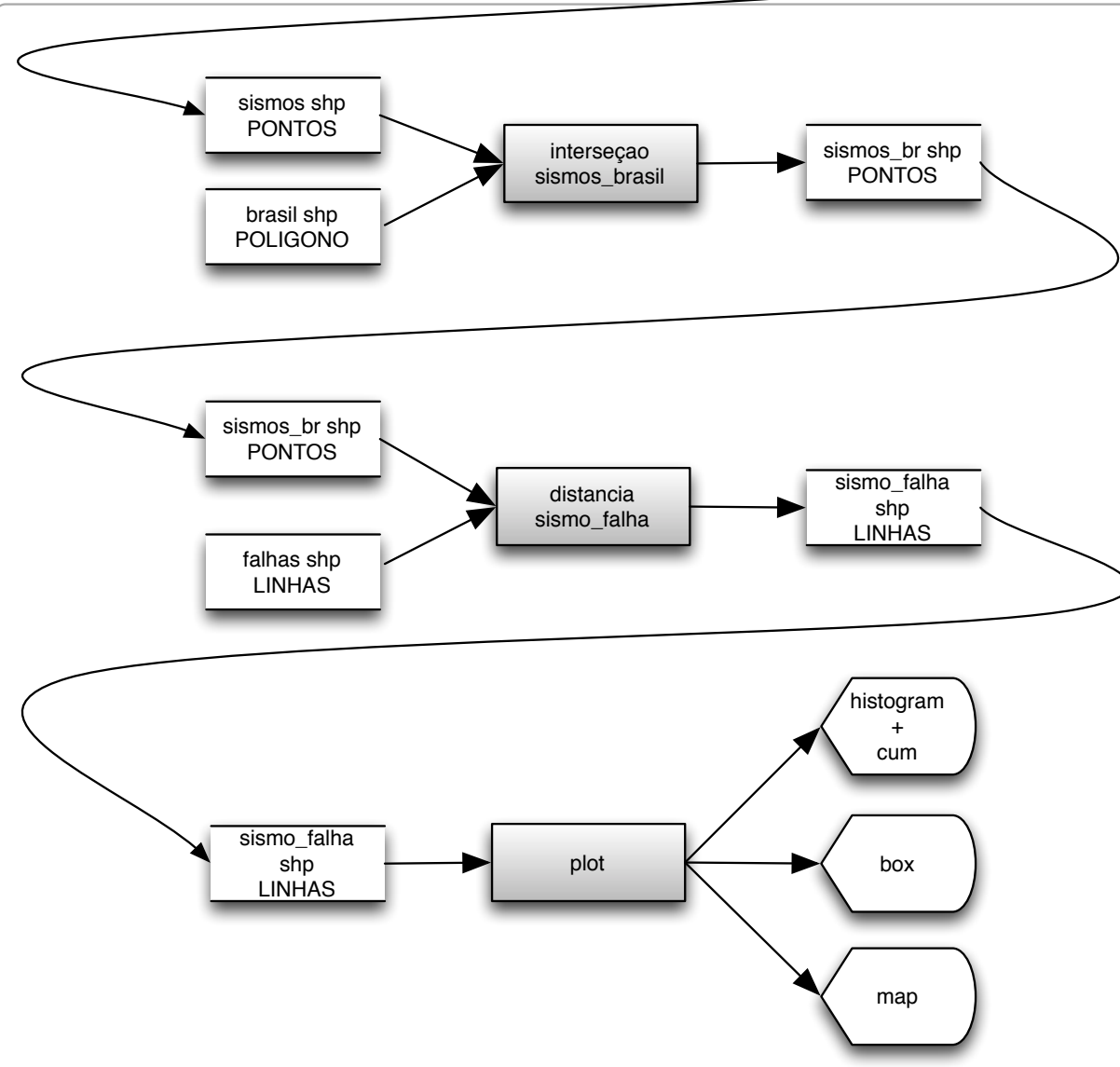
- * python
- * QGIS
- * GRASS
- * GDAL
- * OGR
- * Matplotlib

workflow.graffle

PreProcessamento



Processamento Principal



PosProcessamento



data example

"ano", "mes", "dia", "hora", "min", "seg", "lat", "lon", "dep", "uf", "n1", "mag", "n2", "s1", "s2", "n3", "s3"

1955,1,31,5,3,6,-12.52,-57.35,30,MT,0,6.2,0,I,-,,SA. TOMBADOR M(PAS)6.8;M(BCI)6.6; relocal.Engdahl(GS)

1955,3,1,1,46,18,-19.84,-36.75,30,ES,0,6.1,0,A,-,, "FTE.VITORIA (ISS) VITORIA V MM, M(ROTHER)=6; MB(PAS)=6.5"

1963,12,14,21,5,42,-2.30,-61.01,30,AM,45,5.1,0,C,-,,MANAUS (ISS) RELOCAL.

1964,2,13,11,21,46,-18.06,-56.69,30,MS,5,5.4,0,I,-,, "NW DE MS RELOCAL., CAMPO GRANDE = V MM"

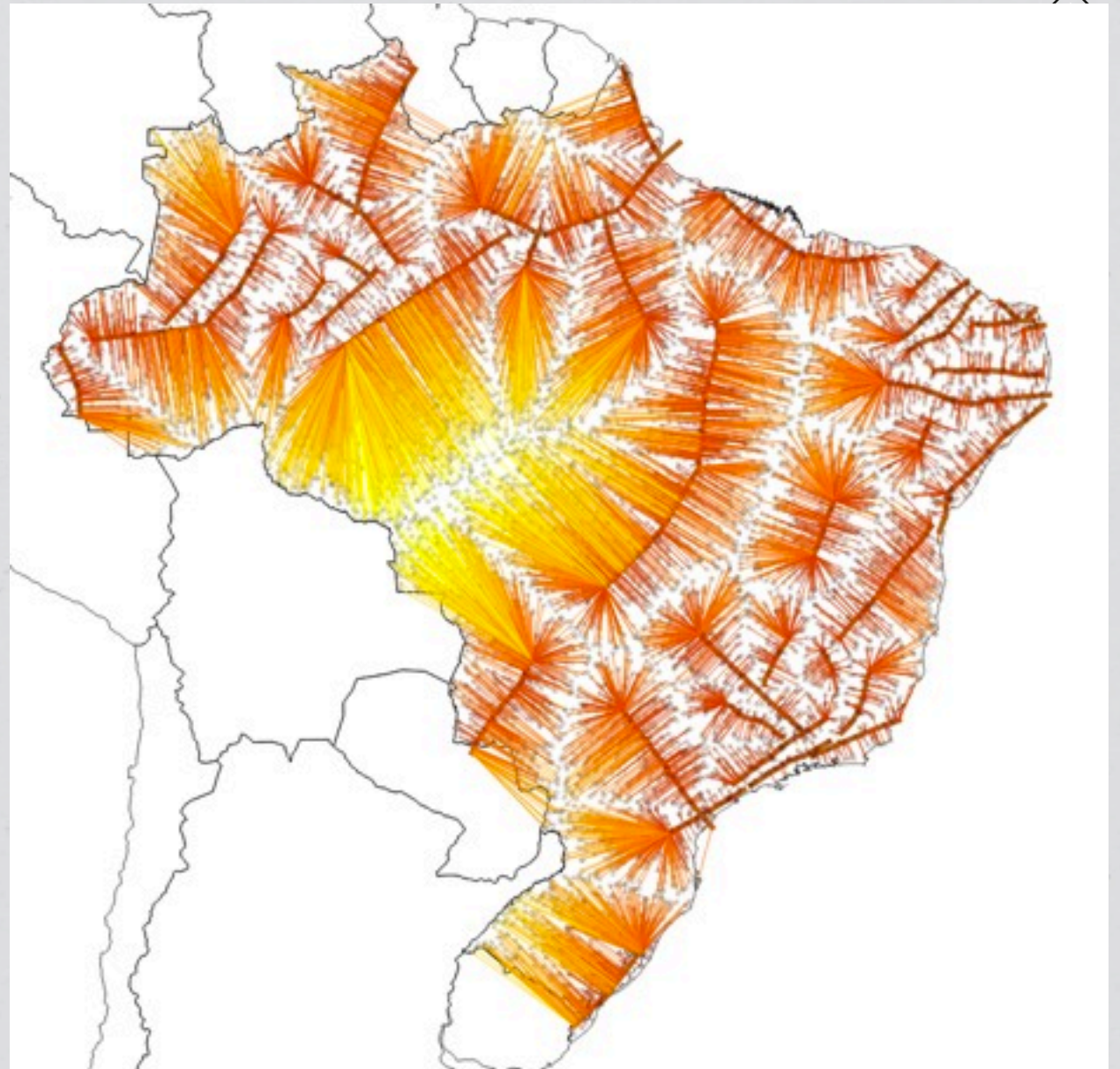
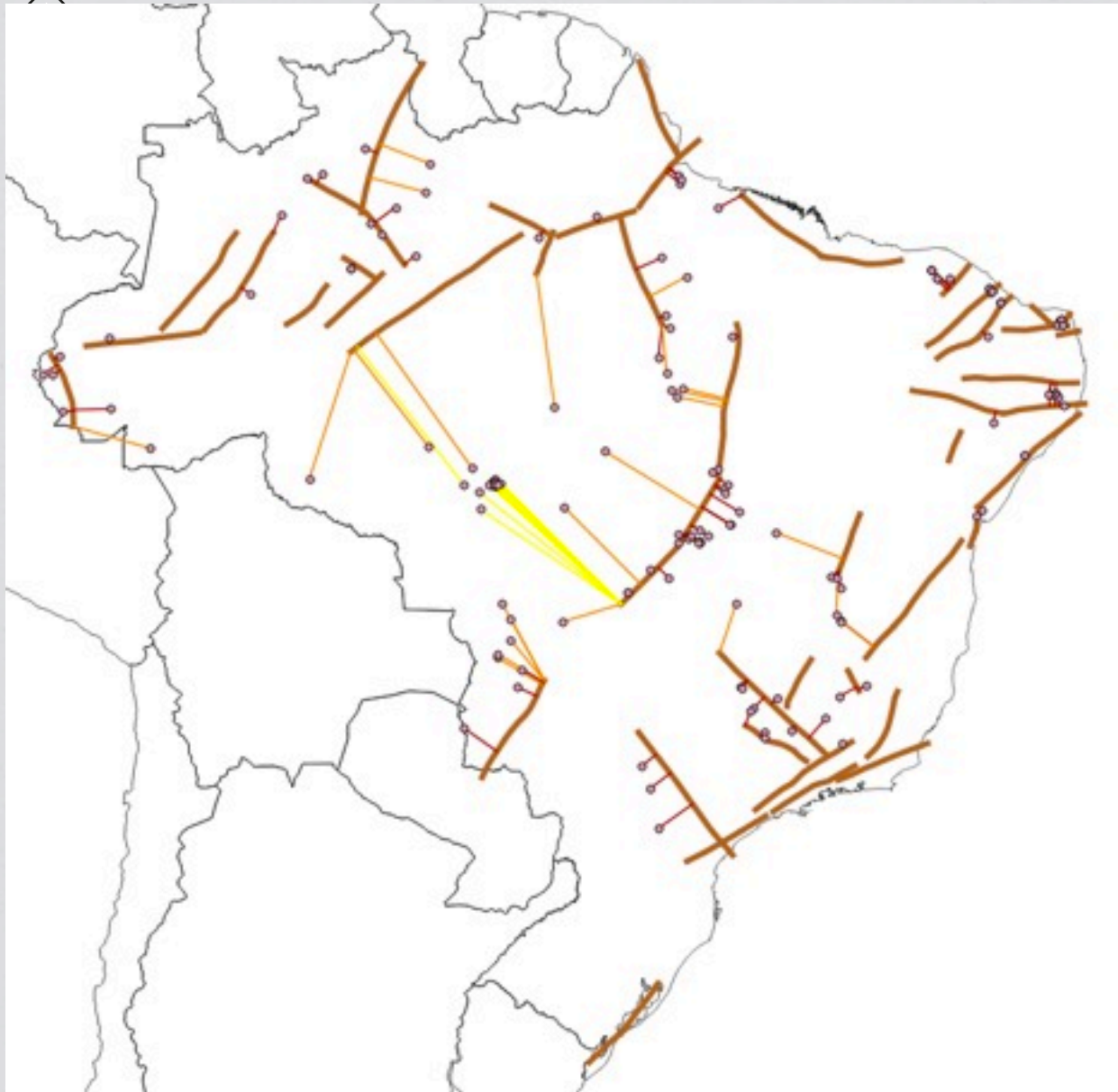
1967,8,9,7,14,8,-8.45,-73.83,30,AC,42,5.1,0,I,-,,PERU-BRASIL

1968,2,23,14,23,2,-6.09,-38.44,5,CE,0,4.6,2,A,7,84,"PEREIRO (UFRN,IAG,ISC)"

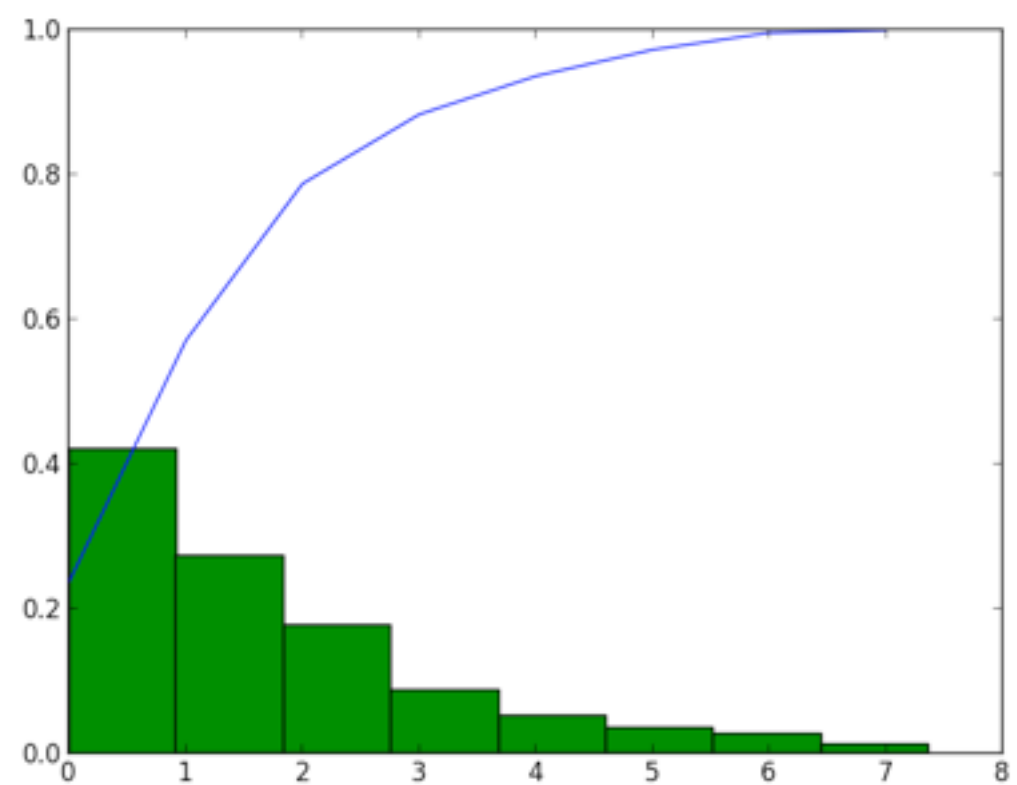
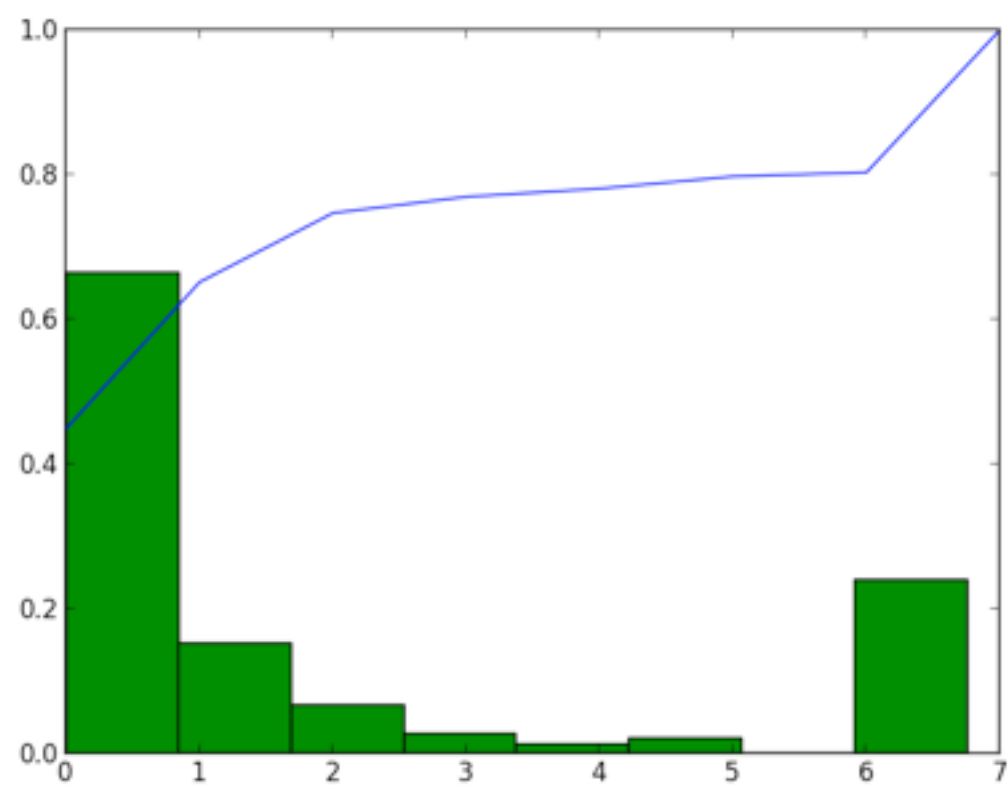
1968,8,27,5,17,36,-8.90,-72.89,30,AC,26,4.9,0,I,-,,W DO ACRE (ISC H=50 ?)

1969,11,7,9,28,54,-37.00,-43.80,250,RS,0,5.0,0,I,-,,ATLANTICO (ISC)

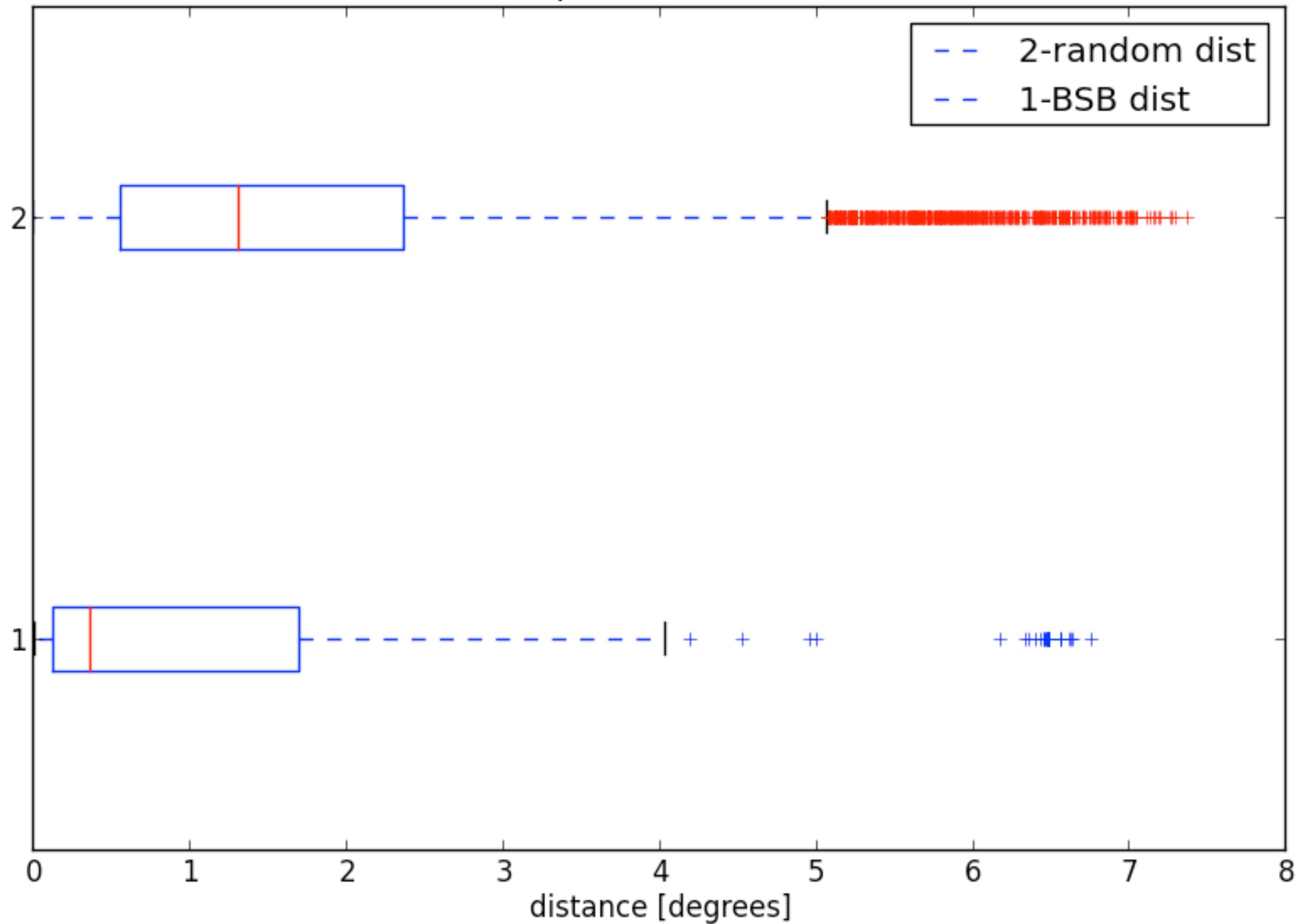
distances(real/random)



distribuição

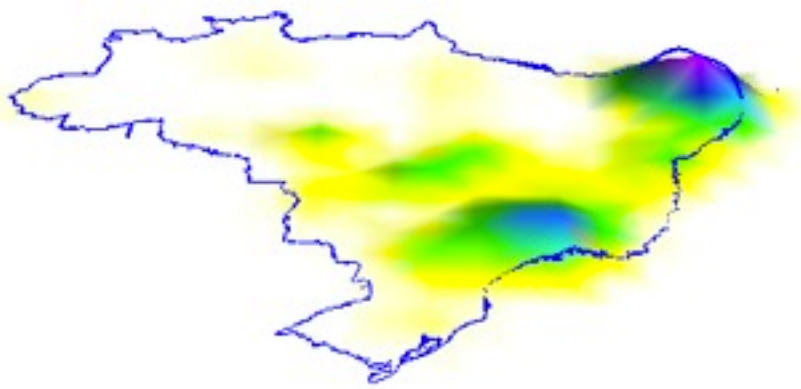
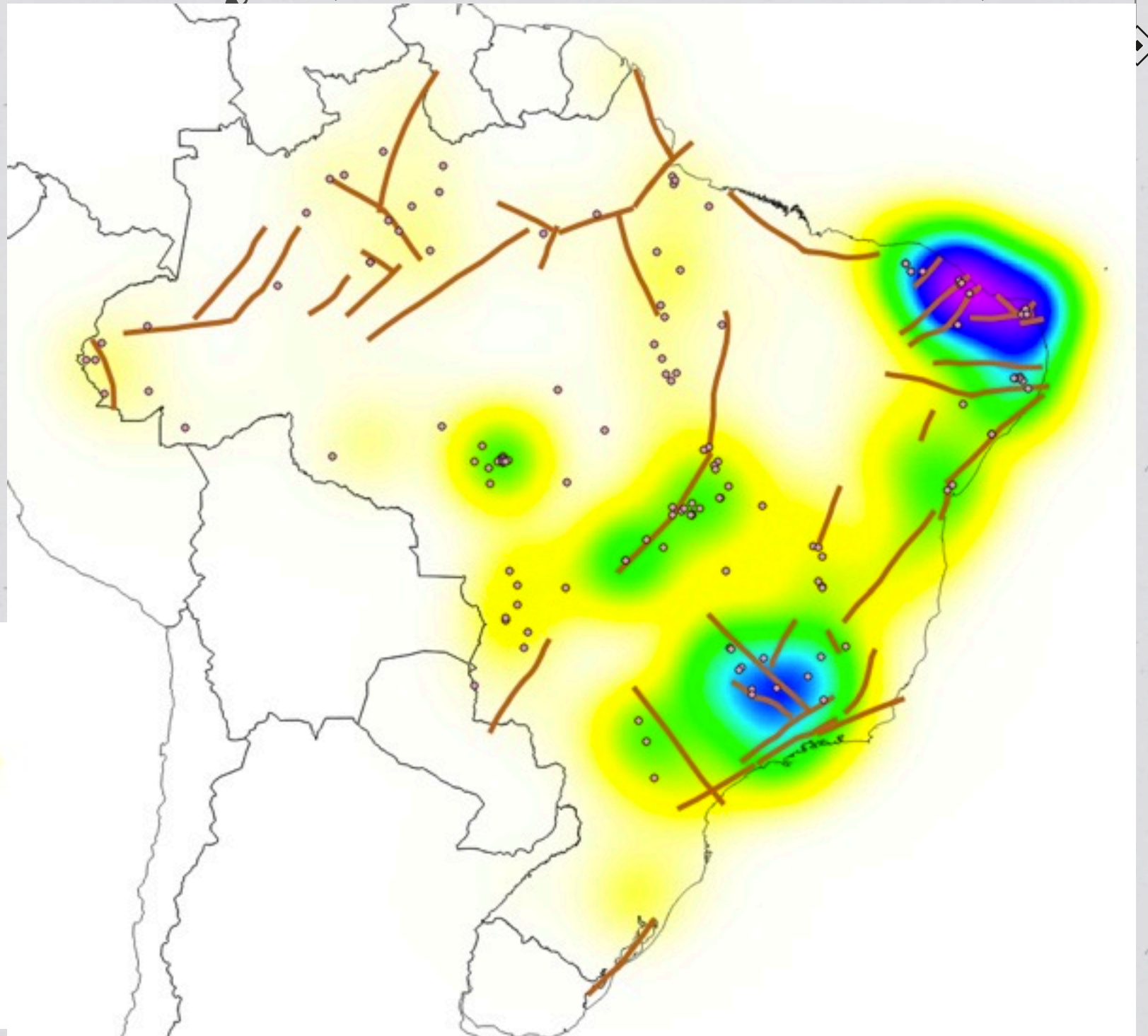


Distance from quakes to Neotectonic faults



kernel-density (sismos-reais)

NVIZ-3D



some code

* http://github.com/preinh/MMD_TFinal