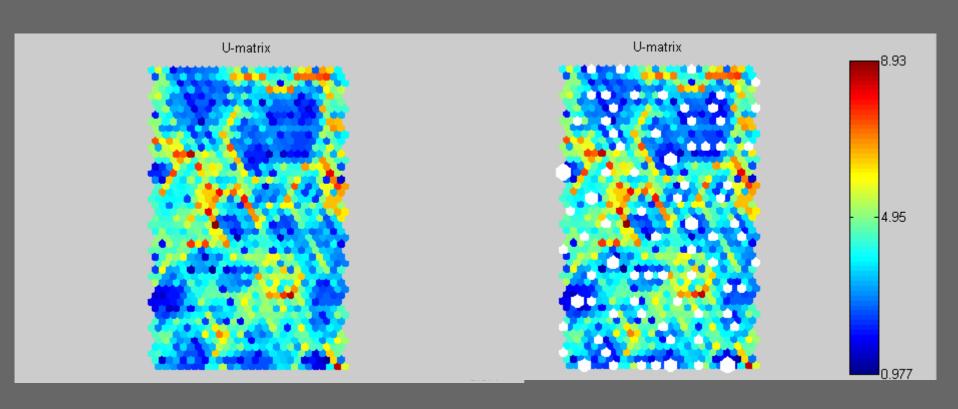
CSOM on Faults - Nov19_1.mat

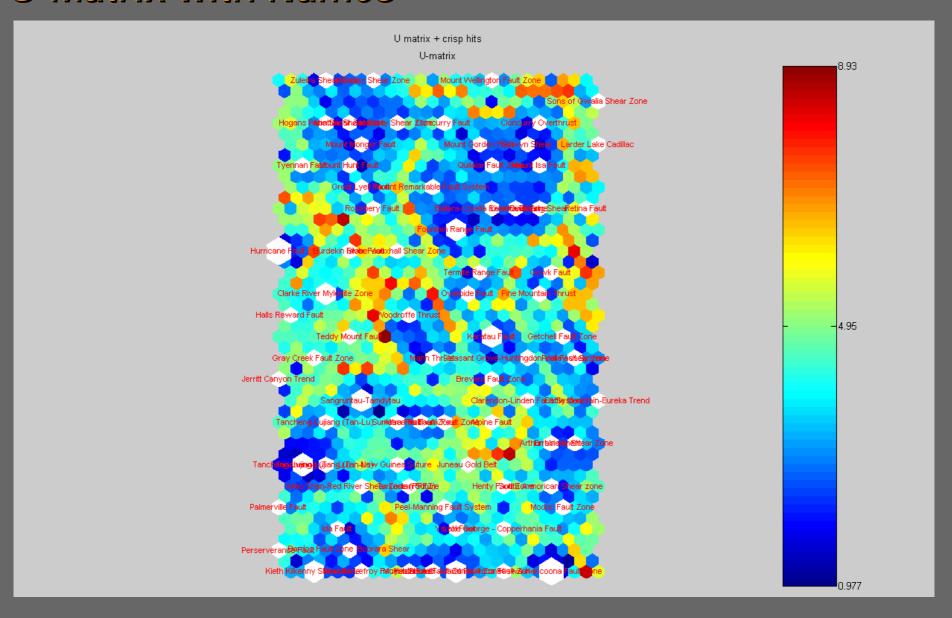
SOM_test_10.xls input

U-Matrix & U-Matrix with "Hits"



24 x 14 Toroidal SOM

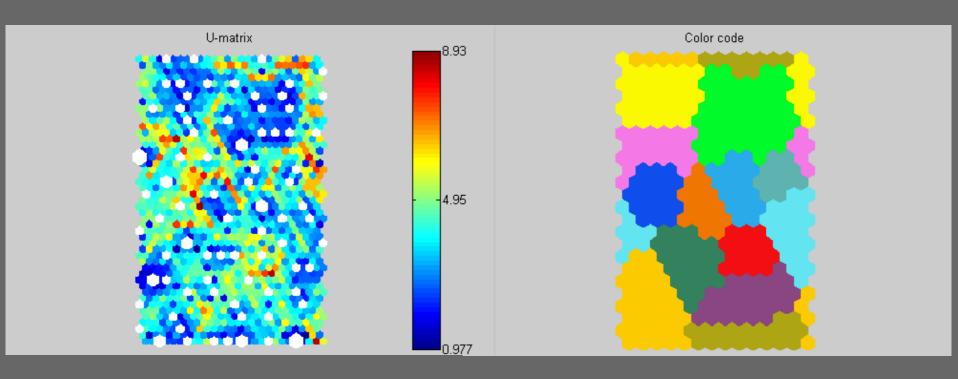
U-Matrix with Names



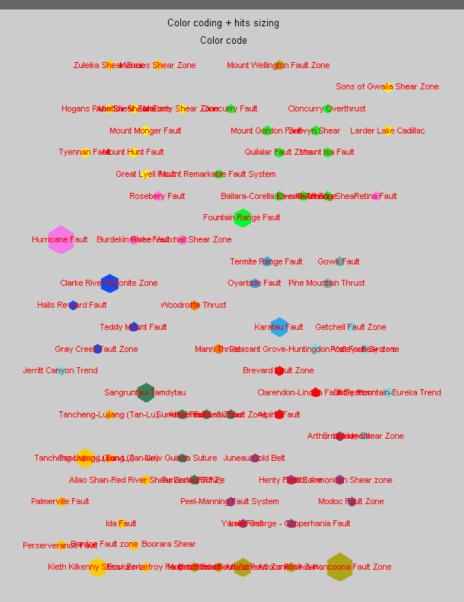
Samples on Cells with Another Label

- Label for sample 75 Kondaparinga Fault does not match cell 9 Hurricane Fault has ger 0.79645
- Label for sample 76 Kingsborough Fault does not match cell 9 Hurricane Fault has qer 0.79645
- Label for sample 88 Koolyanobbing Shear Zone does not match cell 48 Kieth Kilkenny Shear Zone has qer 8.4214
- Label for sample 71 Clarke River Fault does not match cell 59 Clarke River Mylonite Zone has qer 2.8037
- Label for sample 53 Muruntau-Daugyztau does not match cell 88 Sangruntau-Tamdytau has qer 3.9749
- Label for sample 36 Pilgrim Fault does not match cell 176 Fountain Range Fault has ger 4.4668
- Label for sample 17 Governor Fault Zone does not match cell 192 Stawell-Ararat Fault Zone has qer 5.0538
- Label for sample 3 Talas-Ferghana Fault does not match cell 229 Karatau Fault has ger 3.4158
- Label for sample 19 Indi Fault Zone does not match cell 288 Kiewa-Kancoona Fault Zone has qer 7.0088
- Label for sample 20 Gilmore Fault Zone does not match cell 288 Kiewa-Kancoona Fault Zone has qer 5.7421

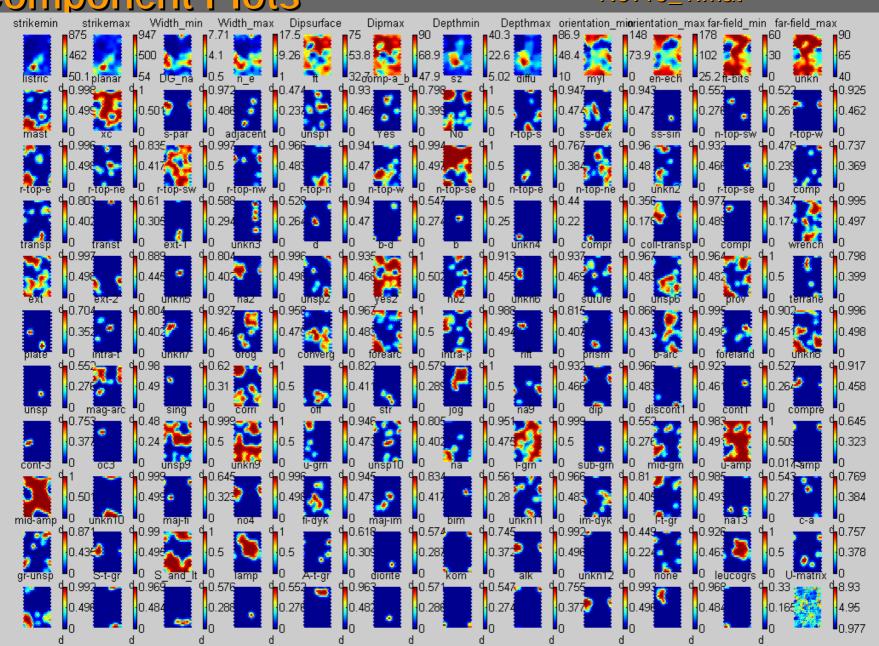
U-Matrix with "Hits" & K-Means 13



K-Means on CSOM with Fault Names



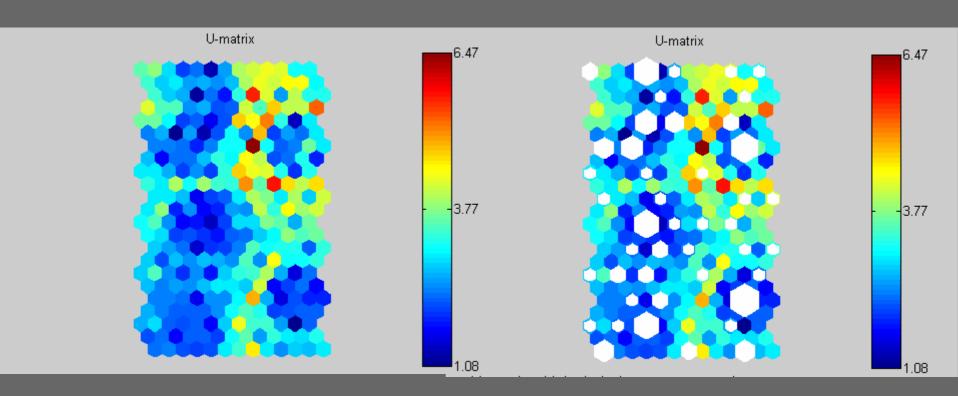
Component Plots



CSOM on Faults - Nov19_2_12_7.mat

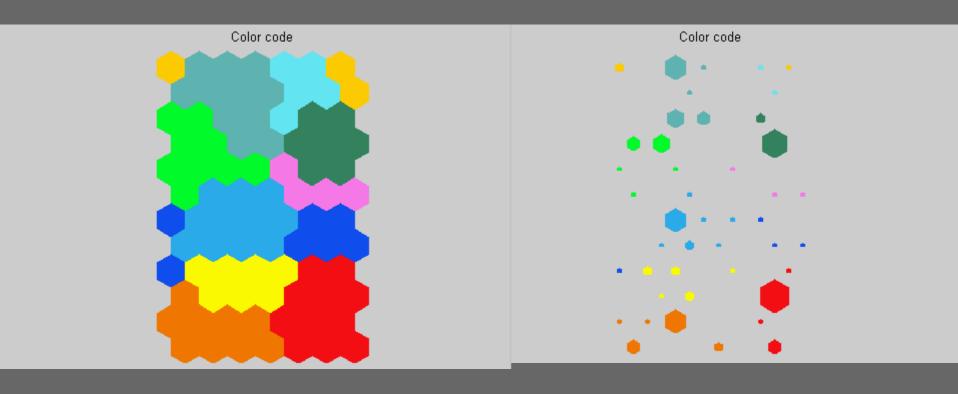
SOM_test_10.xls input

U-Matrix & U-Matrix with "Hits"

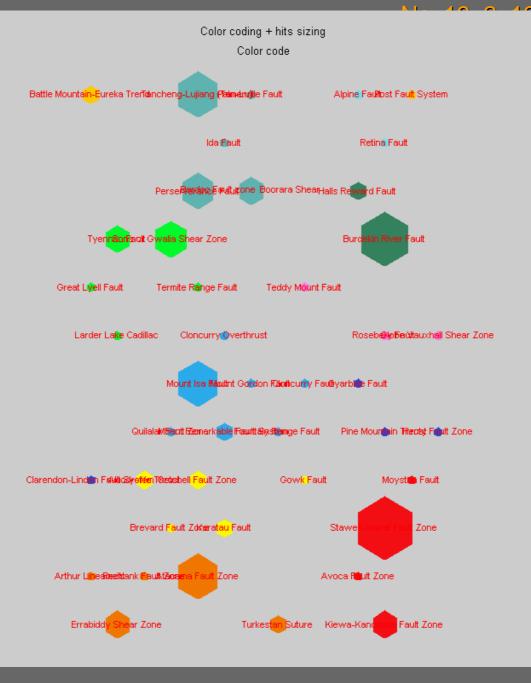


Nov19_2_12_7.mat

Colour Map over U-Matrix & U-Matrix with "Hits"



Faults



ismat.

Component Plots

| 512 607 5.26 12.8 72 87.7 24.9 52.4 127 167 58.1 89. 286 353 2.89 7.02 58.7 76.7 15.6 32 71.3 109 32.7 71. Iistric 60 planar 4.0.905 4.0.747 4.0.216 4.0.702 4.0.325 4.0.916 4.0.668 4.0.465 4.0.225 4.0.203 4.0.465 4.0.203 | |
|--|-----|
| listric do planar do 99 DG_na do 0.526 ne do 0.747 do 0.747 do 0.702 do 0.325 do 0.916 do 0.668 do 0.465 do 0.225 do 0.465 do 0.225 do 0.465 do 0.4 | |
| 4 0.905 4 0.921 4 0.747 4 0.216 4 0.702 1 4 0.325 4 0.916 4 0.668 4 0.465 4 0.225 1 4 0.225 1 4 0.203 1 4 0.471 1 0.471 4 0.505 4 0.374 4 0.106 4 0.356 4 0.461 4 0.334 4 0.235 4 0.235 4 0.465 4 0.235 4 0.471 4 0.235 4 0.461 4 0.375 4 0.375 4 0.375 4 0.385 4 0.604 4 0.738 4 0.998 4 0.385 4 0.765 4 0.765 4 0.529 1 4 0.0994 4 0.2 | |
| mast 0.0365xc 0.089s-par 0 adjacent 0 unsp1 0.006ves 0 No 0.005top-s 0 ss-dex 0.004sesin 0 n-top-sw 0 rtop-w 0 d 0.891 d 0.375 d 0.375 d 0.906 d 0.38 d 0.604 d 0.738 d 0.738 d 0.998 d 0.386 d 0.765 d 0.765 d 0.529 d 0.0994 d 0.2 | 2 |
| 40.891 40.375 40.375 40.906 40.38 40.604 40.738 40.738 40.998 40.386 40.765 40.765 40.529 40.529 40.0994 40.2 | !6 |
| 0.446 0.187 0.187 0.19 0.19 0.30 0.19 0.37 0.508 0.193 0.193 0.382 0.266 0.044 0.193 | 16 |
| | 8 |
| r-top-e 0 r-top-ne 0 r-top-sw 0.094op-nw 0 r-top-n 0 n-top-w 0 n-top-se 0.0264op-e 0 n-top-ne 0.0064kn2 0.004top-se 0 comp 0 4 0.367 | |
| 40.367 40.0981 40.196 40.212 40.243 40.1 40.214 40.102 40.114 40.756 40.756 40.116 40.9 | |
| transp 0 transt 0 ext-1 0 unkn3 0 d 0 b-d 0 b 0 unkn4 0 compr 0 coll-transp 0 compl 0 wrench 0.0 | |
| գլության արտանական արտանան արտանական | |
| 0.436 0.296 0.107 0.41 0.249 0.536 0.439 0.439 0.19 0.214 0.42 0.03644ane 0 | 9 |
| ext 0.035ext-2 0 unkno 0 naz 0 unkp2 0 yes2 0.095xo2 0 unkno 0 suture 0.010msp6 0 prov 0.03ferrane 0 0.000 40.27 | ı |
| 0.10 0.10 0.11 0.212 0.39 0.39 0.366 0.455 0.367 0.114 0.114 0.195 0.385 0.311 | 7 |
| plate 0 intra-t 0 unkn7 0 orog 0 converg 0.046searc 0.024stra-p 0.004smit 0 prism 0 b-arc 0 foreland 0.004shkn8 0.0 4 0.225 4 0.759 4 0.413 4 0.441 4 0.174 4 0.295 4 0.202 | |
| 0.113 0.38 0.056 0.45 0.101 0.101 0.45 0.256 0.202 0.221 0.086 0.2 | |
| unsp 0 mag-arc 0 sing 0 com 0.0152off 0 str 0 jog 0 na9 0 dip 0 discont1 0 cont1 0 compre 0 | |
| 40.245 0.201 40.823 40.943 40.496 40.368 40.612 40.964 40.225 40.592 40.996 0.10 40.10 40.10 40.206 | |
| cont-3 0 oc3 0 unsp9 0.057 mkn9 0.177u-gm 0 unsp10 0.0065 ma 0 f-gm 0.025 un-gm 0 mid-gm 0.004 amp 0.406 amp 0 | ,,, |
| 40.999 40.871 40.871 40.217 40.841 40.517 40.428 40.428 40.551 40.551 40.553 40.681 40.681 40.178 40.2 | |
| 0.564 0.436 0.108 0.108 0.255 0.214 0.086 0.276 0.277 0.344 0.086 0.0 | 5 |
| mid-amp 0.12§nkn10 0 maj-ti 0 no4 0 fi-dyk 0 maj-im 0 bim 0 unkn11 0 im-dyk 0 l-t-gr 0.006ka13 0 c-a 0 - գ-0.428 գ-0.529 գ-0.954 գ-0.752 գ-0.498 գ-0.187 գ-0.209 գ-0.747 գ-0.0891 գ-0.359 գ-0.752 գ-0.2 | 7 |
| 0.216 0.264 0.264 0.53 0.376 0.249 0.093 0.104 0.374 0.374 0.044 0.044 0.018 | 19 |
| gr-unsp 0.007s-gr 0 s and t 0.105amp 0 A-t-gr 0 diorite 0 kom 0 alk 0 unkn12 0 none 0.0060cogrs 0 U-matrix 0 40.818 40.816 40.563 40.199 40.225 40.439 40.101 40.0891 40.151 40.816 40.816 40.5 | |
| 0.41 0.282 0.099 (0.113 0.0219 0.056 0.044 0.076 0.044 0.076 | |
| | } |

Samples on Cells with another Label (Faults classed as similar)

- Label for sample 10 Jerritt Canyon Trend does not match cell 1 Battle Mountain-Eureka Trend has ger 6.2627
- Label for sample 85 Mount Hunt Fault does not match cell 4 Tyennan Fault has ger 10.1111
- Label for sample 86 Mount Monger Fault does not match cell 4 Tyennan Fault has ger 5.8846
- Label for sample 43 South Armorican Shear zone does not match cell 12 Errabiddy Shear Zone has ger 7.6994
- Label for sample 47 Modoc Fault Zone does not match cell 12 Errabiddy Shear Zone has ger 7.9993
- Label for sample 82 Moriarty Shear Zone does not match cell 16 Sons of Gwalia Shear Zone has ger 7.2142.
- Label for sample 83 Abattoir Shear Zone does not match cell 16 Sons of Gwalia Shear Zone has ger 5.7159
- Label for sample 84 Hogans Paris Shear Zone does not match cell 16 Sons of Gwalia Shear Zone has qer 6.0707
- Label for sample 28 Mann Thrust does not match cell 21 Woodroffe Thrust has ger 7.319
- Label for sample 59 Ailao Shan-Red River Shear Zone (RRFZ) does not match cell 25 Tancheng-Lujiang (Tan-Lu) has ger 8.2639
- Label for sample 81 Zuleika Shear Zone does not match cell 27 Perserverance Fault has ger 11,2916
- Label for sample 87 Menzies Shear Zone does not match cell 27 Perserverance Fault has ger 4.7623
- Label for sample 88 Koolyanobbing Shear Zone does not match cell 27 Perserverance Fault has ger 10.5437
- Label for sample 37 Ballara-Corella River Fault Zone does not match cell 31 Mount Isa Fault has ger 6.3519
 - Label for sample 38 Selwyn Shear does not match cell 31 Mount Isa Fault has ger 8.5641
- Label for sample 40 Levuka Trend does not match cell 31 Mount Isa Fault has ger 7.0912
- Label for sample 50 Overhang Shear does not match cell 31 Mount Isa Fault has ger 6.9728
- Label for sample 36 Pilgrim Fault does not match cell 32 Mount Remarkable Fault System has ger 7.3045
- Label for sample 44 Pleasant Grove-Huntingdon Valley shear zone does not match cell 33 Getchell Fault Zone has ger 6.1469
- Label for sample 3 Talas-Ferghana Fault does not match cell 34 Karatau Fault has ger 6.7651
- Label for sample 5 Sumatra Fault does not match cell 35 Atacama Fault Zone has ger 9.5855
- Label for sample 41 Juneau Gold Belt does not match cell 35 Atacama Fault Zone has qer 12.3317
- Label for sample 52 Sangruntau-Tamdytau does not match cell 35 Atacama Fault Zone has ger 7.3062
- Label for sample 53 Muruntau-Daugyztau does not match cell 35 Atacama Fault Zone has ger 7.1791
- Label for sample 63 Kieth Kilkenny Shear Zone does not match cell 39 Bardoc Fault zone Boorara Shear has ger 5.9035
- Label for sample 64 Boulder-Lefroy Fault does not match cell 39 Bardoc Fault zone Boorara Shear has ger 4.4888
- Label for sample 6 New Guinea Suture does not match cell 48 Turkestan Suture has ger 8.4849
- Label for sample 72 Gray Creek Fault Zone does not match cell 63 Halls Reward Fault has ger 10.3558
- Label for sample 70 Clarke River Mylonite Zone does not match cell 64 Burdekin River Fault has qer 7.6001
- Label for sample 71 Clarke River Fault does not match cell 64 Burdekin River Fault has ger 7.6927
- Label for sample 74 Hurricane Fault does not match cell 64 Burdekin River Fault has ger 7.0554
- Label for sample 75 Kondaparinga Fault does not match cell 64 Burdekin River Fault has ger 7.0554
- Label for sample 76 Kingsborough Fault does not match cell 64 Burdekin River Fault has ger 7.0554
- Label for sample 15 Heathcote Fault Zone does not match cell 70 Stawell-Ararat Fault Zone has qer 7.1985
- Label for sample 16 Mount Wellington Fault Zone does not match cell 70 Stawell-Ararat Fault Zone has qer 11.3884
- Label for sample 17 Governor Fault Zone does not match cell 70 Stawell-Ararat Fault Zone has qer 7.4994
- Label for sample 21 Lake George Copperhania Fault does not match cell 70 Stawell-Ararat Fault Zone has qer 10.5441
- Label for sample 22 Peel-Manning Fault System does not match cell 70 Stawell-Ararat Fault Zone has ger 9.8216
- Label for sample 23 Yarrol Fault does not match cell 70 Stawell-Ararat Fault Zone has qer 8.2173
- Label for sample 19 Indi Fault Zone does not match cell 72 Kiewa-Kancoona Fault Zone has qer 8.8429
- Label for sample 20 Gilmore Fault Zone does not match cell 72 Kiewa-Kancoona Fault Zone has qer 8.043

Nov19 2 12 7.mat