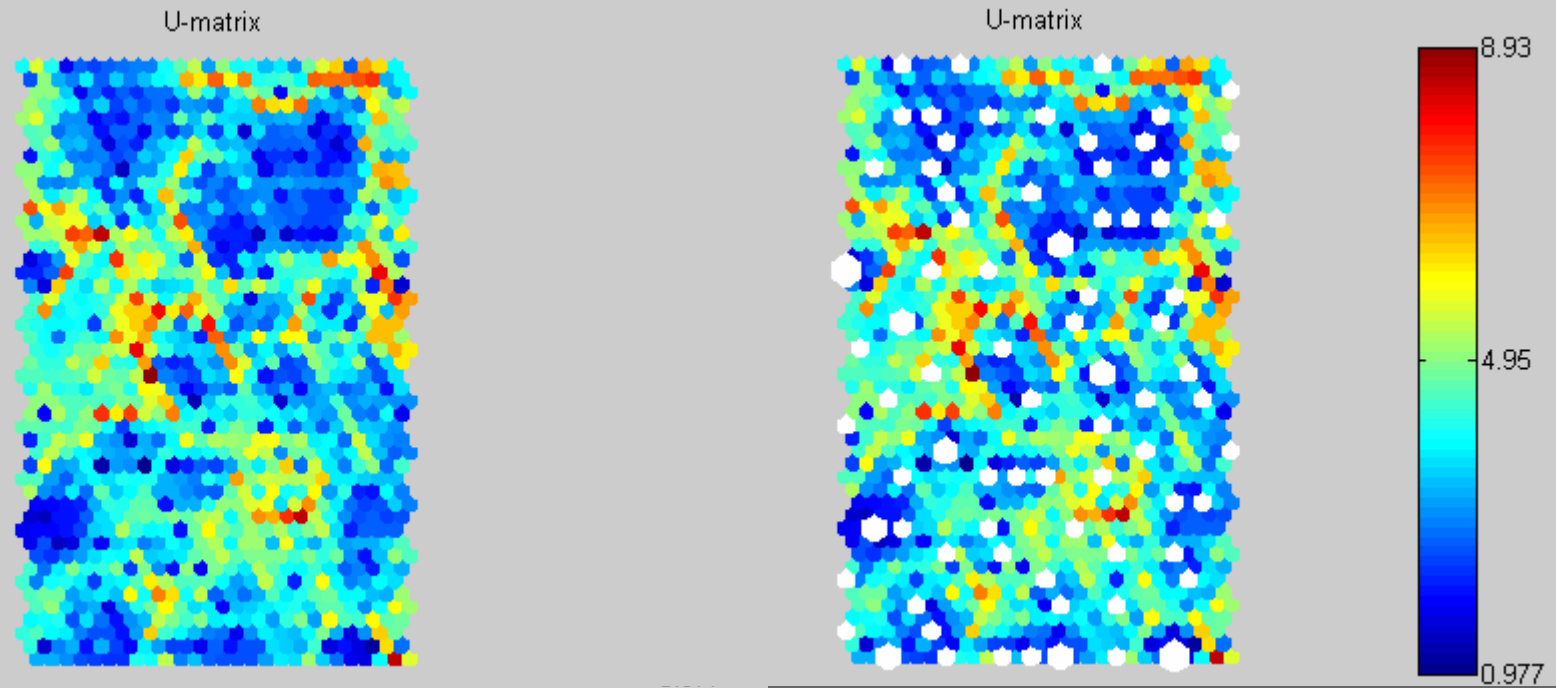


CSOM on Faults - Nov19\_1.mat

SOM\_test\_10.xls input

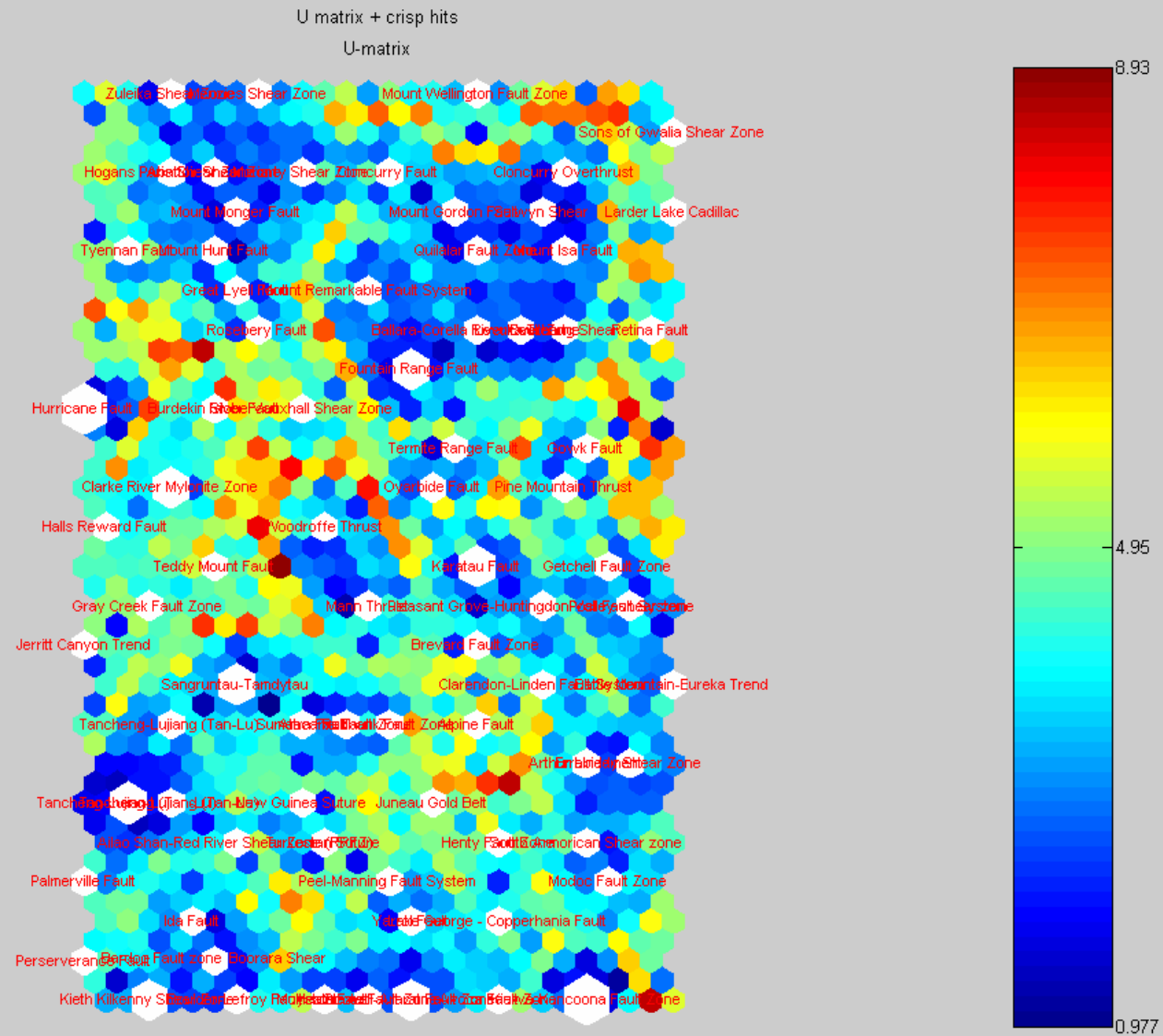
# U-Matrix & U-Matrix with "Hits"



24 x 14 Toroidal SOM

Nov19\_1.mat

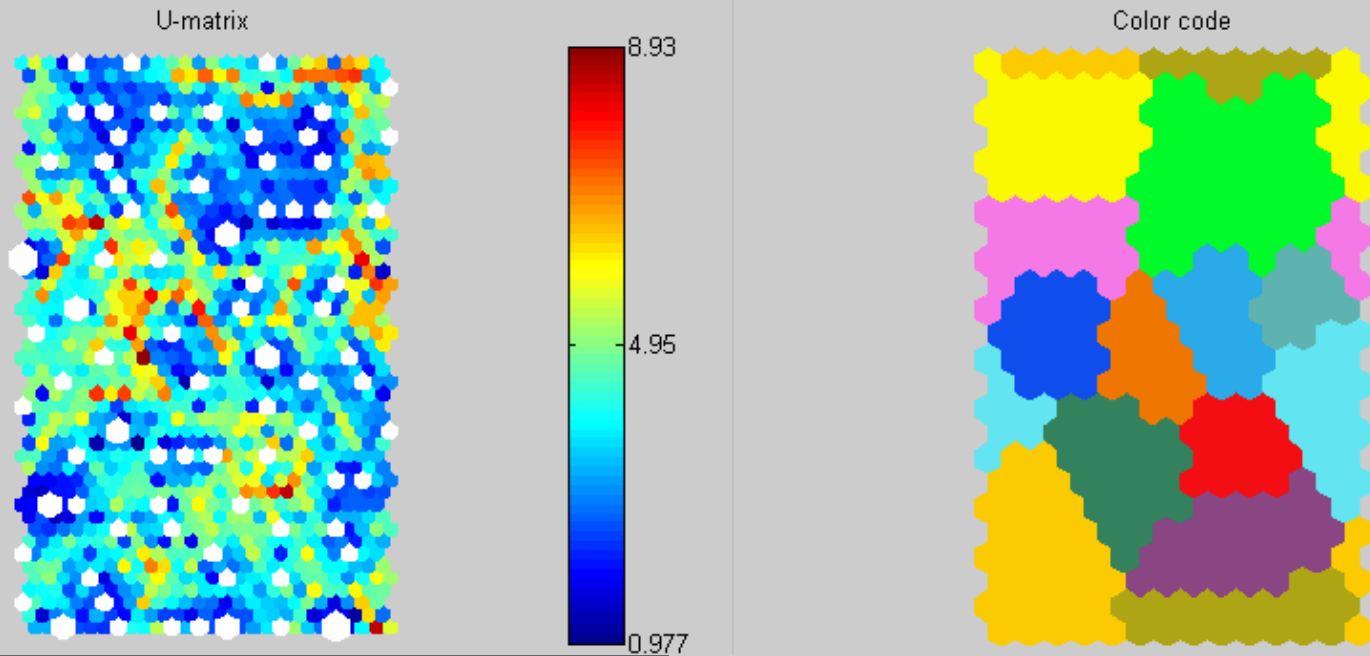
# Nov19\_1.mat



# Samples on Cells with Another Label

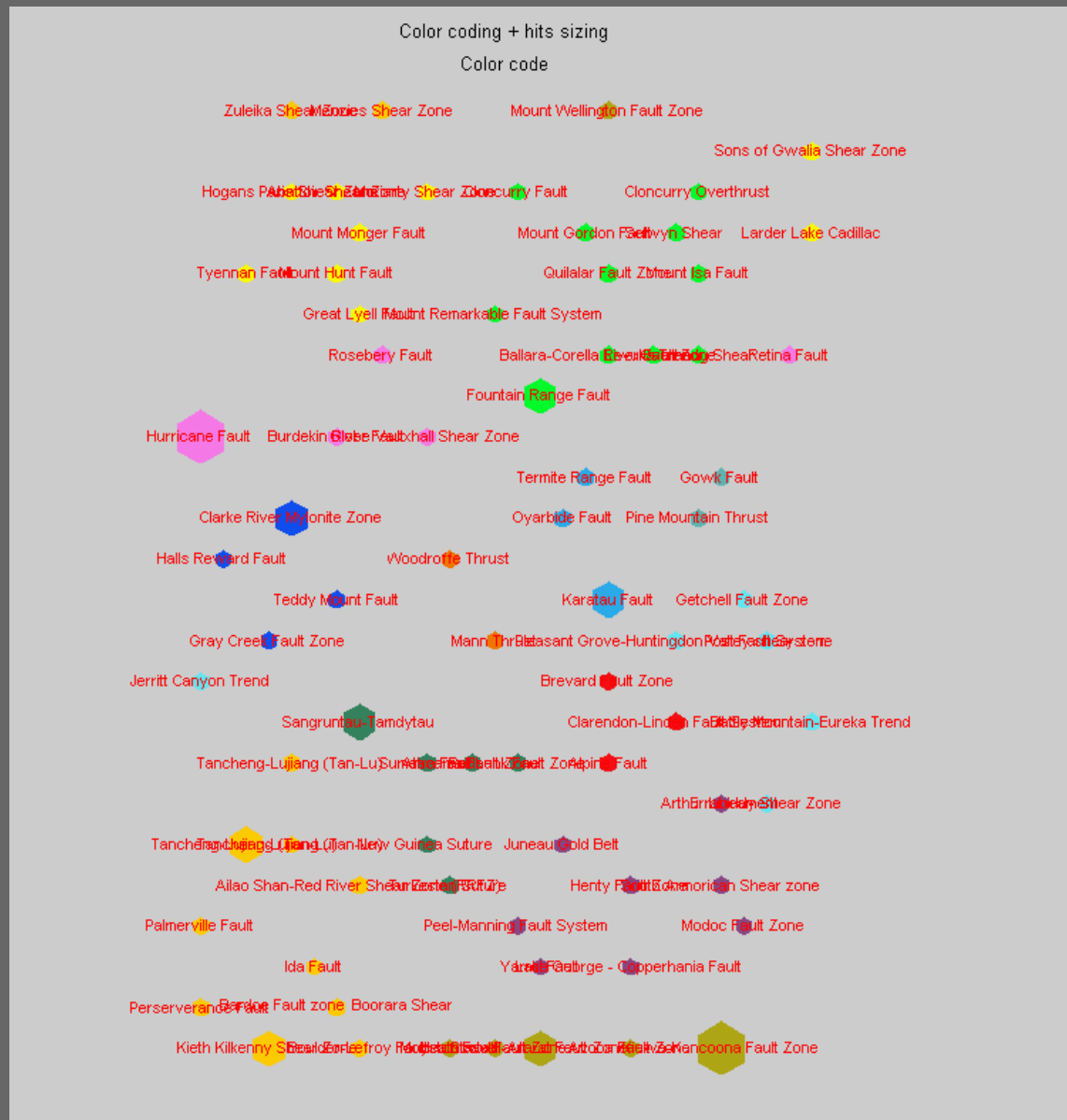
- Label for sample 75 Kondaparinga Fault does not match cell 9 Hurricane Fault has qer 0.79645
- Label for sample 76 Kingsborough Fault does not match cell 9 Hurricane Fault has qer 0.79645
- Label for sample 88 Koolyanobbing Shear Zone does not match cell 48 Kieth Kilkenny Shear Zone has qer 8.4214
- 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-Daugyzttau 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 qer 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 qer 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



Nov19\_1.mat

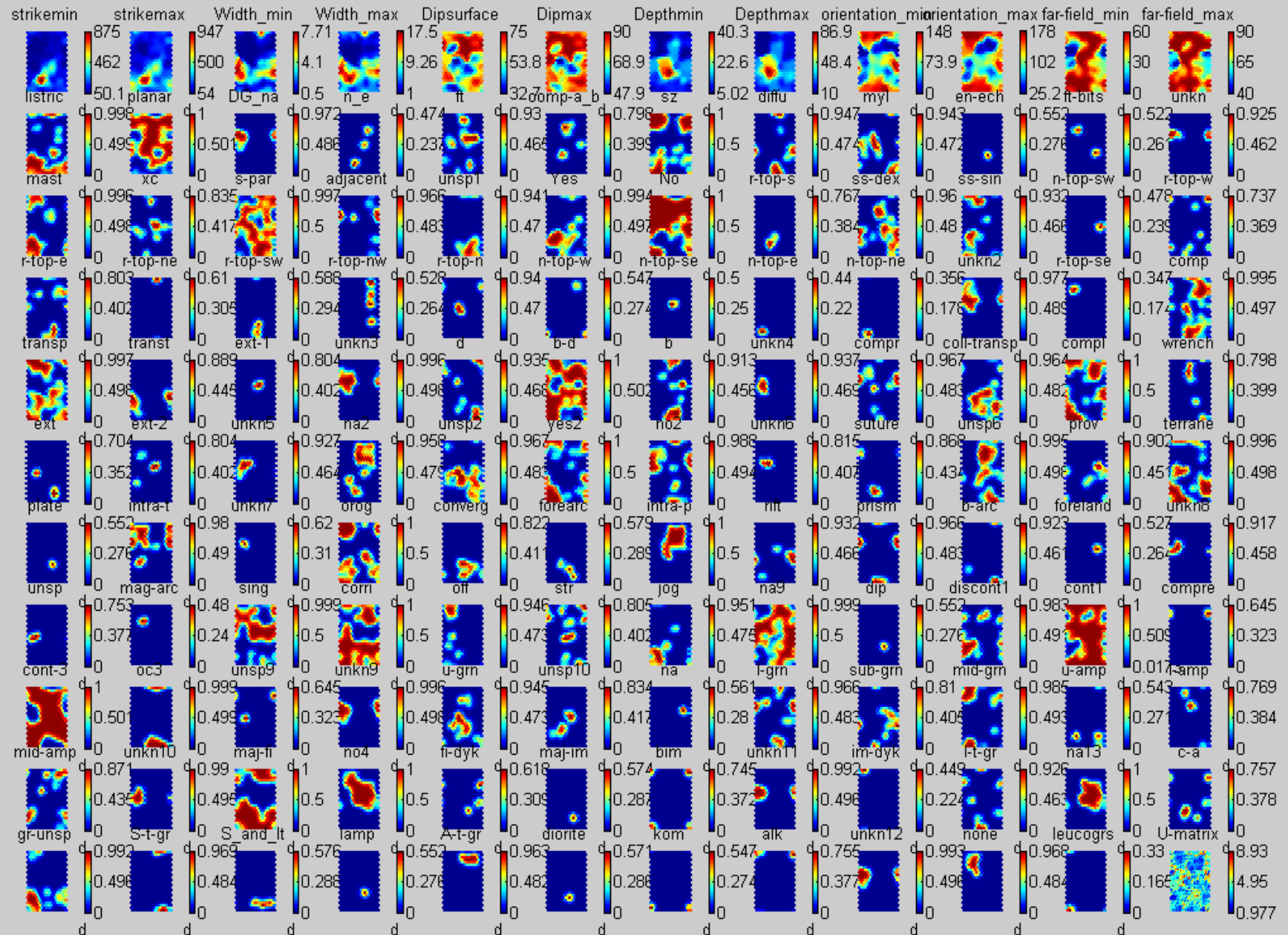
# K-Means on CSOM with Fault Names



Nov19\_1.mat

# Component Plots

Nov19\_1.mat

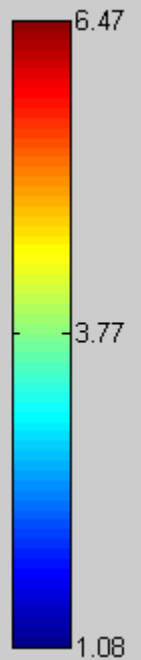
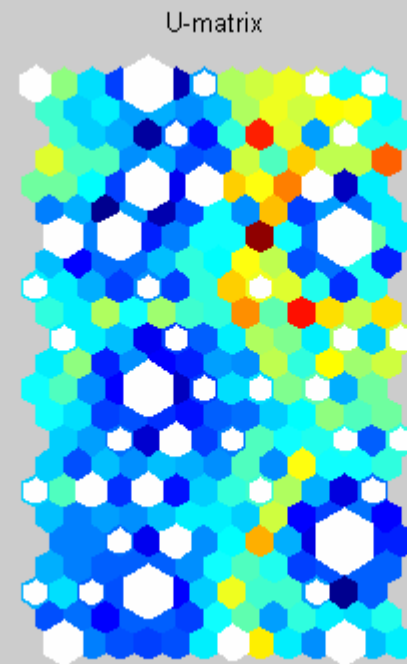
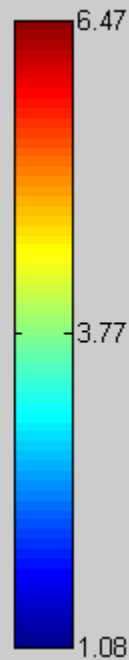
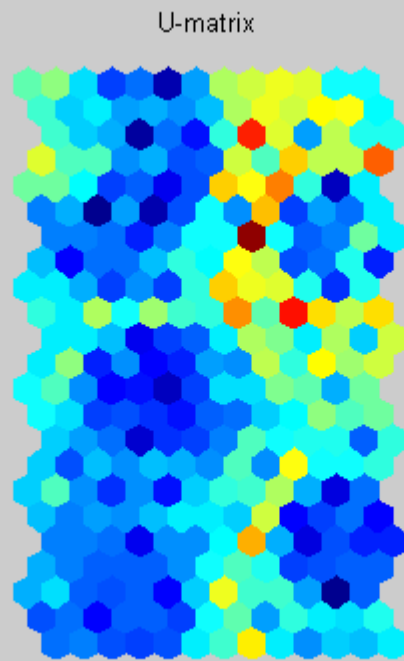


CSOM on Faults - Nov19\_2\_12\_7.mat

SOM\_test\_10.xls input

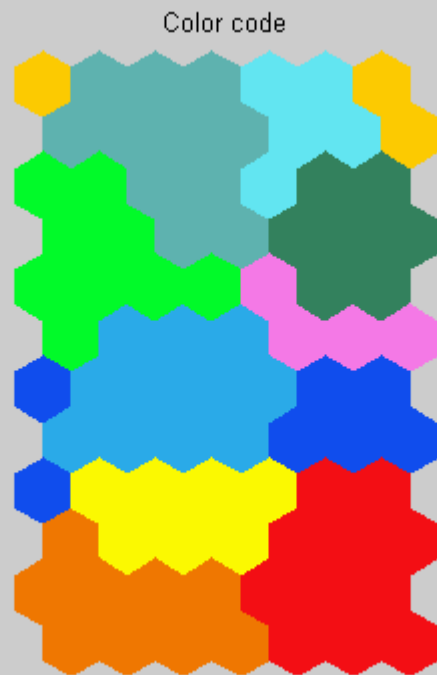


# U-Matrix & U-Matrix with "Hits"

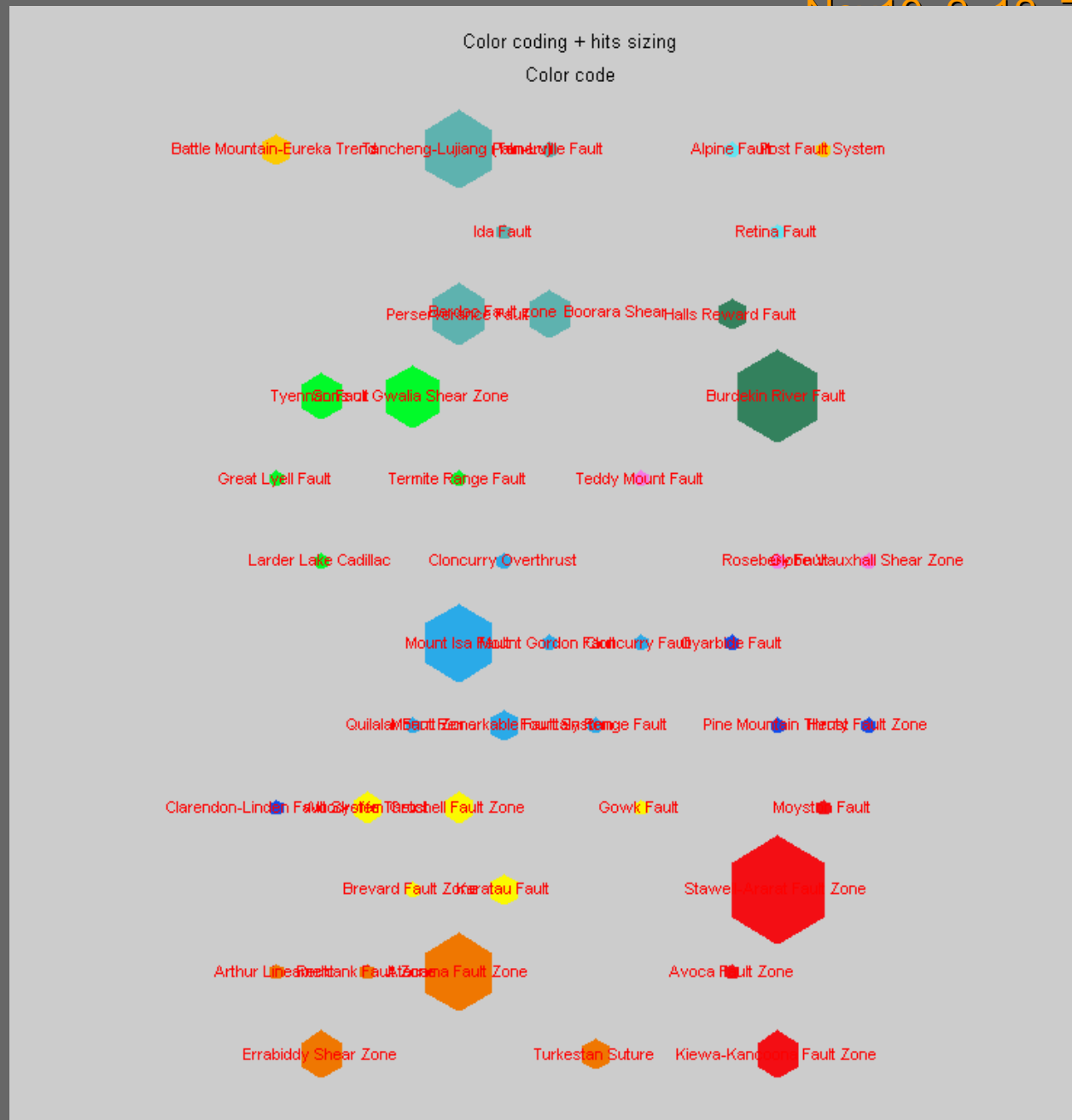


Nov19\_2\_12\_7.mat

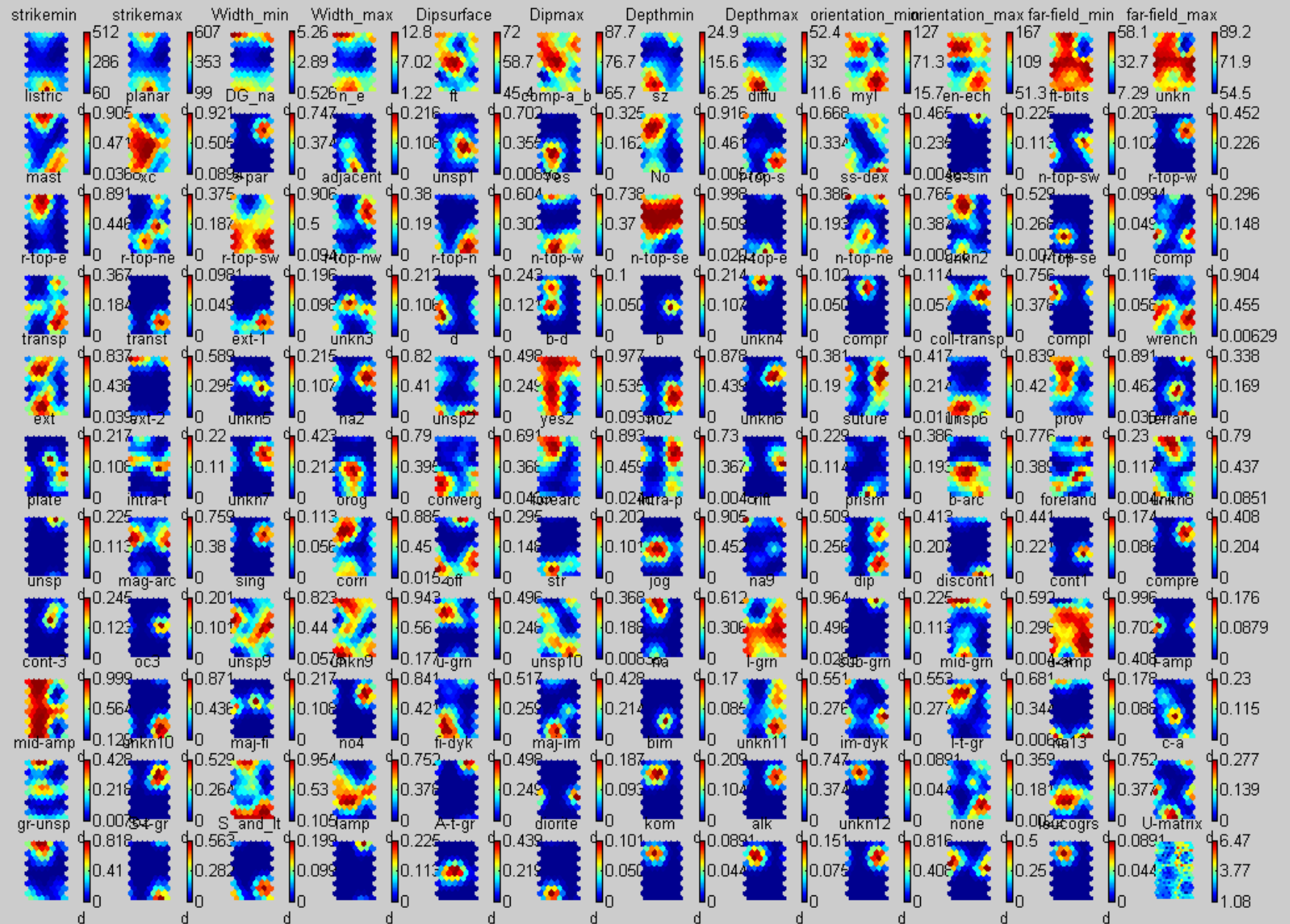
# Colour Map over U-Matrix & U-Matrix with "Hits"



№ 40 0 40 7.mat



Nov19\_2\_12\_7.mat



# 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 qer 6.2627
- Label for sample 85 Mount Hunt Fault does not match cell 4 Tyennan Fault has qer 10.1111
- Label for sample 86 Mount Monger Fault does not match cell 4 Tyennan Fault has qer 5.8846
- Label for sample 43 South Armorian Shear zone does not match cell 12 Errabiddy Shear Zone has qer 7.6994
- Label for sample 47 Modoc Fault Zone does not match cell 12 Errabiddy Shear Zone has qer 7.9993
- Label for sample 82 Moriarty Shear Zone does not match cell 16 Sons of Gwalia Shear Zone has qer 7.2142
- Label for sample 83 Abattoir Shear Zone does not match cell 16 Sons of Gwalia Shear Zone has qer 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 qer 7.319
- Label for sample 59 Ailao Shan-Red River Shear Zone (RRFZ) does not match cell 25 Tancheng-Lujiang (Tan-Lu) has qer 8.2639
- Label for sample 81 Zuleika Shear Zone does not match cell 27 Perserverance Fault has qer 11.2916
- Label for sample 87 Menzies Shear Zone does not match cell 27 Perserverance Fault has qer 4.7623
- Label for sample 88 Koolyanobbing Shear Zone does not match cell 27 Perserverance Fault has qer 10.5437
- Label for sample 37 Ballara-Corella River Fault Zone does not match cell 31 Mount Isa Fault has qer 6.3519
- Label for sample 38 Selwyn Shear does not match cell 31 Mount Isa Fault has qer 8.5641
- Label for sample 40 Levuka Trend does not match cell 31 Mount Isa Fault has qer 7.0912
- Label for sample 50 Overhang Shear does not match cell 31 Mount Isa Fault has qer 6.9728
- Label for sample 36 Pilgrim Fault does not match cell 32 Mount Remarkable Fault System has qer 7.3045
- Label for sample 44 Pleasant Grove-Huntingdon Valley shear zone does not match cell 33 Getchell Fault Zone has qer 6.1469
- Label for sample 3 Talas-Ferghana Fault does not match cell 34 Karatau Fault has qer 6.7651
- Label for sample 5 Sumatra Fault does not match cell 35 Atacama Fault Zone has qer 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 qer 7.3062
- Label for sample 53 Muruntau-Daugyztau does not match cell 35 Atacama Fault Zone has qer 7.1791
- Label for sample 63 Kieth Kilkenny Shear Zone does not match cell 39 Bardoc Fault zone \_ Boorara Shear has qer 5.9035
- Label for sample 64 Boulder-Lefroy Fault does not match cell 39 Bardoc Fault zone \_ Boorara Shear has qer 4.4888
- Label for sample 6 New Guinea Suture does not match cell 48 Turkestan Suture has qer 8.4849
- Label for sample 72 Gray Creek Fault Zone does not match cell 63 Halls Reward Fault has qer 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 qer 7.6927
- Label for sample 74 Hurricane Fault does not match cell 64 Burdekin River Fault has qer 7.0554
- Label for sample 75 Kondaparinga Fault does not match cell 64 Burdekin River Fault has qer 7.0554
- Label for sample 76 Kingsborough Fault does not match cell 64 Burdekin River Fault has qer 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 qer 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
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Nov19\_2\_12\_7.mat