

R documentation

of ‘DebonKNaB.Rd’

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DebonKNaB

K/(Na+K) vs. B diagram (Debon + Le Fort 1983)

Description

Assigns data for Debon & Le Fort’s $K/(Na+K)$ vs. B diagram into Figaro template (list ‘sheet’) and appropriate values into ‘x.data’ and ‘y.data’.

Usage

DebonKNaB()

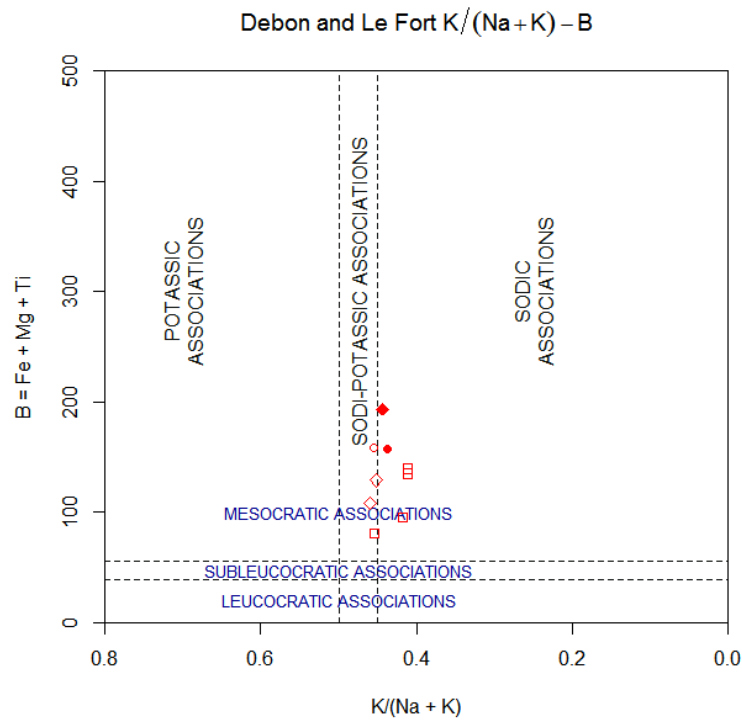
Details

The $K/(Na+K)$ vs. B diagram was proposed by *Debon and Le Fort (1988)* for aluminous magmatic suites. It defines three associations based on the balance of the two alkalis, namely potassic, sodi-potassic and sodic (note that the x axis is reversed). Moreover, leucocratic, subleucocratic and mesocratic associations are distinguished based on maficity of the samples.

Parameters for the diagram are calculated by the function ‘DebonCalc’. All of them are based on millications (1000 gram-atoms per 100 grams).

$K/(Na + K)$ [alkali ratio]

$B = Fe + Mg + Ti$ [maficity]



For details, see *Debon & Le Fort (1983)* or *(1988)*.

Value

sheet	list with Figaro Style Sheet data
x.data	$K/(Na + K)$ value. See details.
y.data	B value. See details.

Author(s)

Vojtech Janousek, <vojtech.janousek@geology.cz>

References

Debon F & Le Fort P (1983) A chemical-mineralogical classification of common plutonic rocks and associations. *Trans Roy Soc Edinb; Earth Sci* 73: 135-149

Debon F & Le Fort P (1988) A cationic classification of common plutonic rocks and their magmatic associations: principles, method, applications. *Bull. Mineral* 111: 493-511

See Also

[classify](#) [figaro](#) [plotDiagram](#) [DebonPQ](#) [DebonBA](#) [DebonQB](#) [DebonBQF](#) [DebonBMgNo](#) [DebonCalc](#)

Examples

```
data(blatna)
accessVar("blatna")
selectSubset("SiO2>50")
```

```
plotDiagram("DebonKNaB", FALSE)  
figCol("red")
```