

ANEXO IVb:

Cartografia dos teores esperados e teores residuais positivos para elementos em traço, resultantes da análise por regressão (“stepwise regression”) em função das Litologias, Zonas Geostruturais e Al, Fe, Mn (e Ca, no caso do Sr), sobre resultados obtidos após ataque com Água Régia e análise por ICP-AES em 653 amostras de sedimentos de corrente de Portugal Continental (página 134 e seguintes do Volume I).

As* = ARSÊNIO f(RG, RM, RD, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE

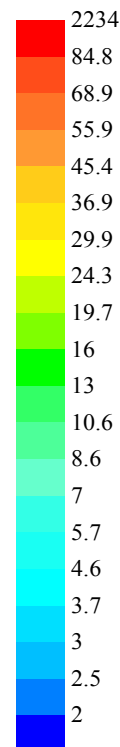
GEOQUÍMICA de PORTUGAL
cartografia regional 2000
 (<80#, Aqua Regia, ICP-AES, Krigagem)

As
Sedimentos de Corrente

N=653

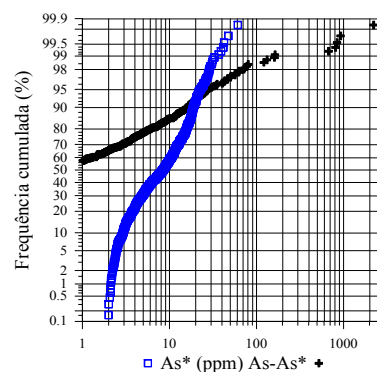
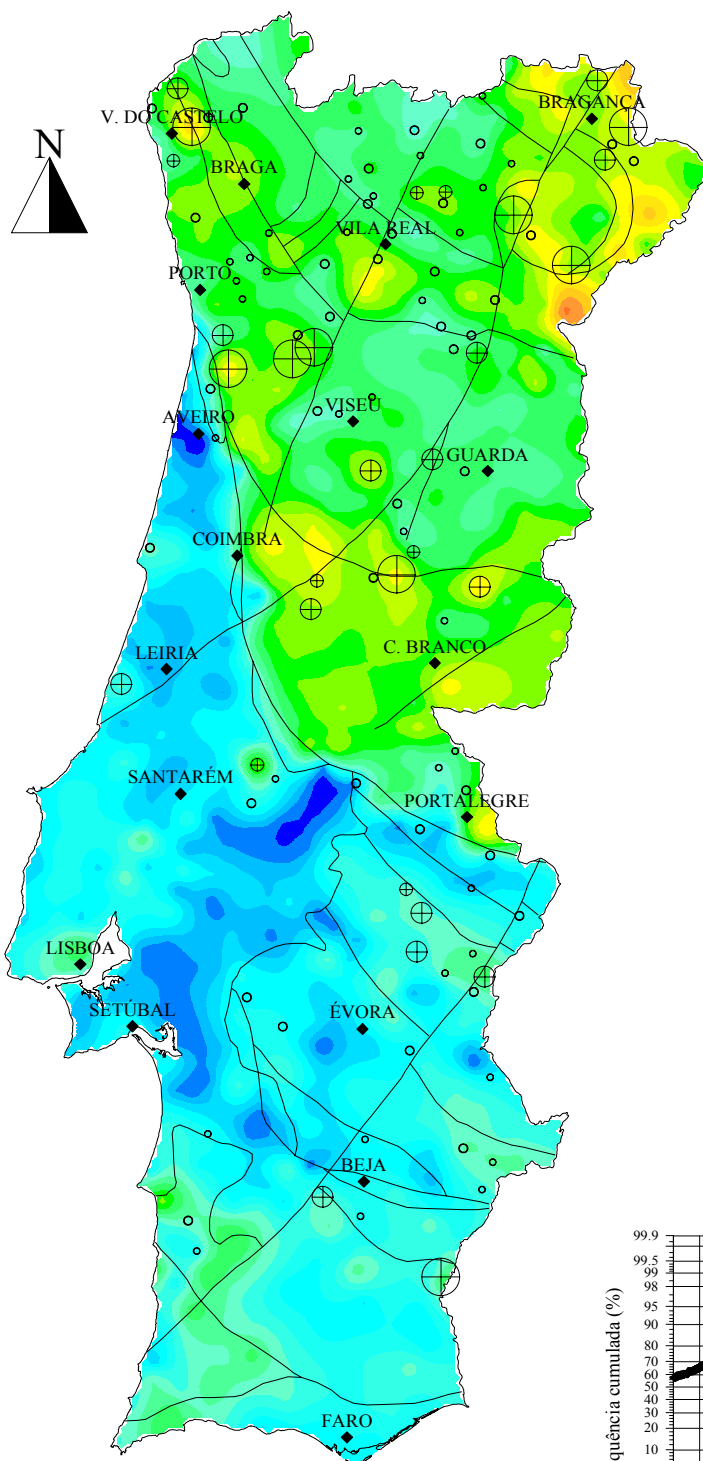
As* (esperado) As-As* (residual)

ppm



(Variância explicada=39.01%)

$$As^* = -0.373 + 0.718xZCI + 0.135xFe + 0.180xMn + 0.298xRD + 0.302xRC + 0.126xZOM$$



— Limites Geostruturais e Falhas

Ba* = BÁRIO f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE

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(<80#, Aqua Regia, ICP-AES, Krigagem)

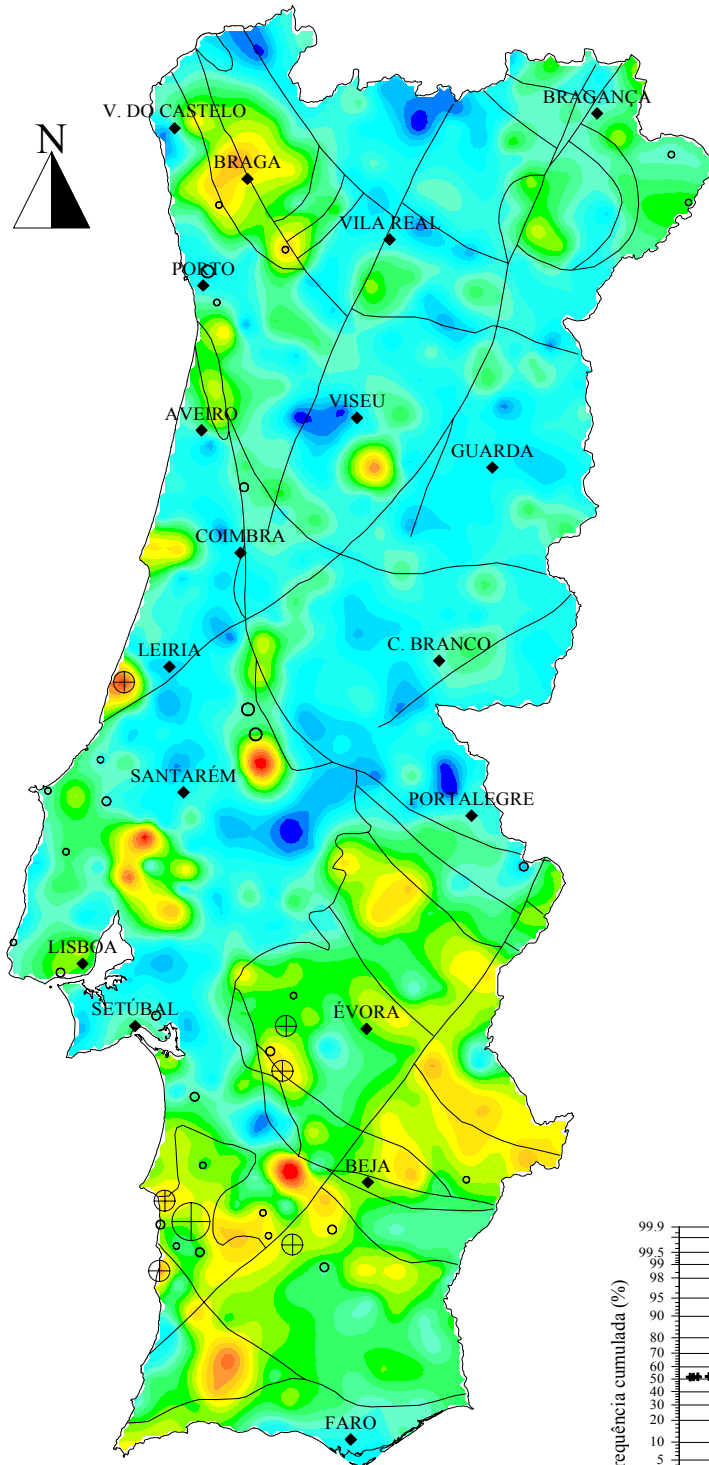
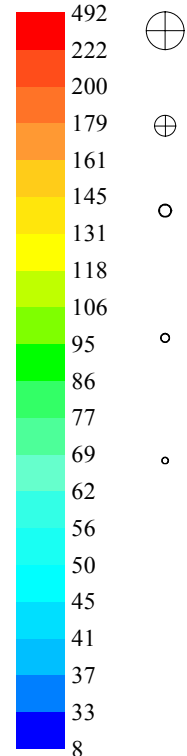
Ba

Sedimentos de Corrente

N=653

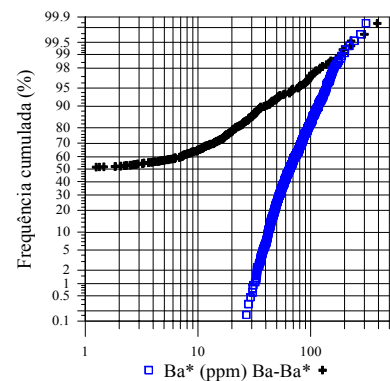
Ba* (esperado) Ba-Ba* (residual)

ppm



$Ba^* = 0.622 + 0.305 \times Mn + 0.167 \times Al + 0.170 \times RD + 0.185 \times ZOM + 0.141 \times Orlas + 0.016 \times Fe$ (Variância explicada=49.37%)

— Limites Geostruturais e Falhas



Co^* = COBALTO f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE

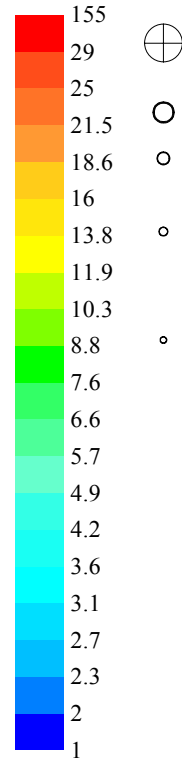
**GEOQUÍMICA de PORTUGAL
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(<80#, Aqua Regia, ICP-AES, Krigagem)

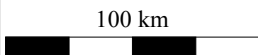
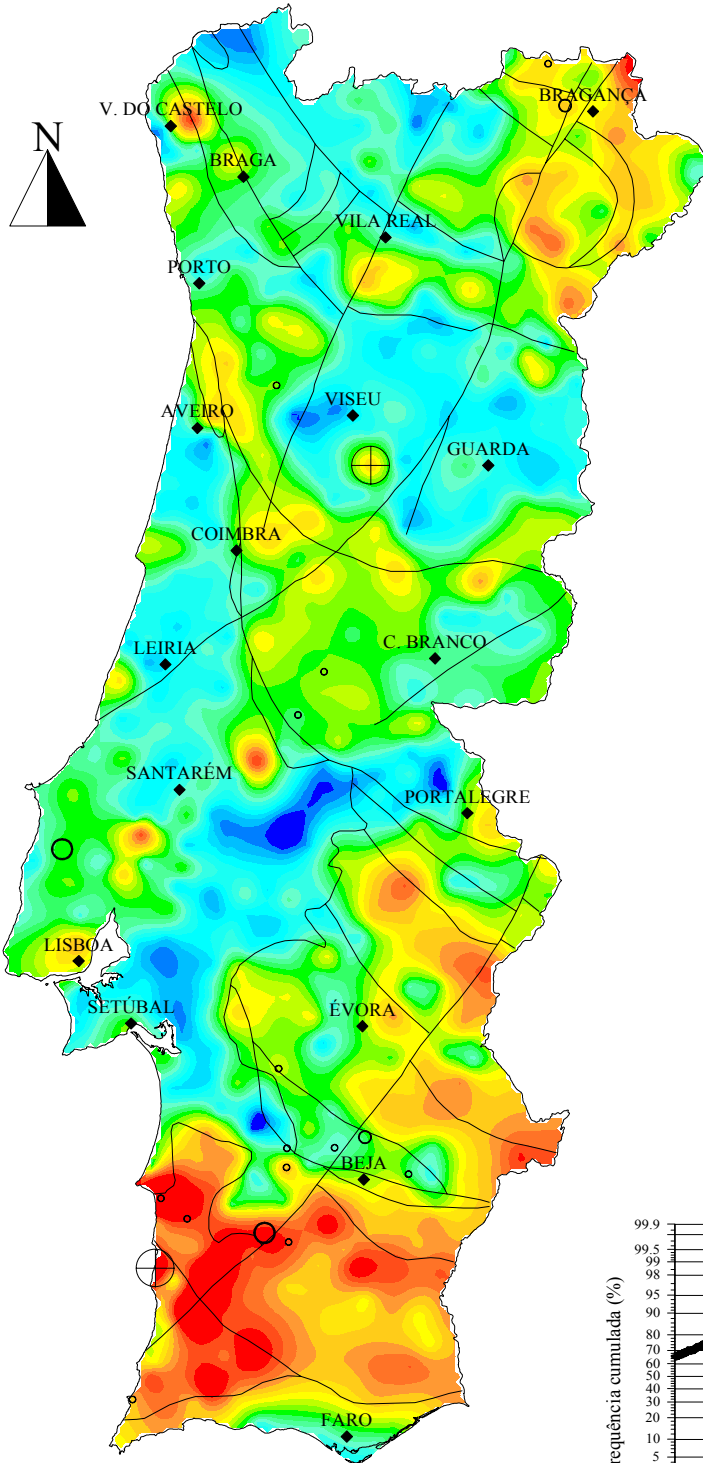
Co
*Sedimentos
de Corrente*

N=653

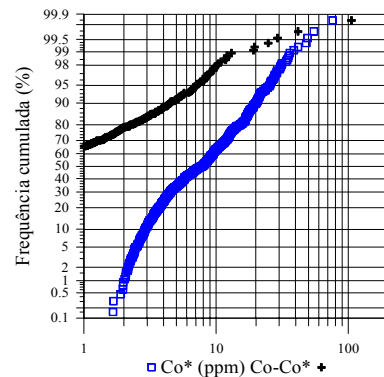
Co* (esperado) Co-Co* (residual)
ppm



$$Co^* = -0.696 + 0.095xFe + 0.384xMn + 0.295xRM + 0.230xRD + 0.260xRC + 0.071xAl + 0.068xZOM \quad (\text{Variância explicada} = 76.21\%)$$



— Limites Geostruturais e Falhas



***Cr** = CRÓMIO f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE**

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(<80#, Aqua Regia, ICP-AES, Krigagem)

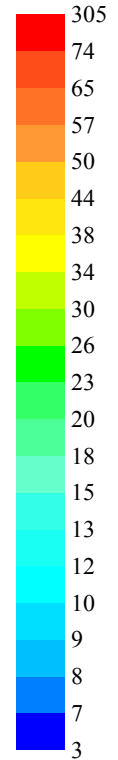
Cr

*Sedimentos
de Corrente*

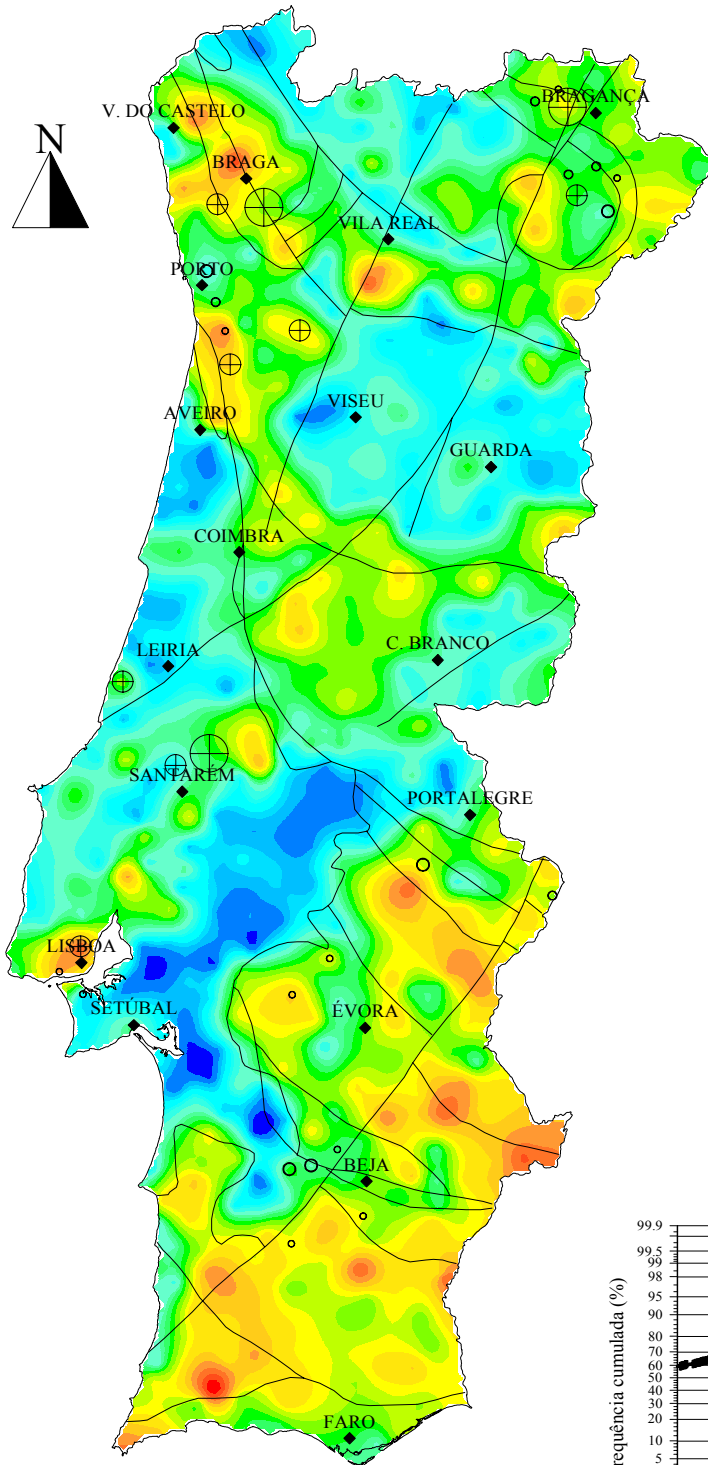
N=653

*Cr** (esperado) *Cr-Cr** (residual)

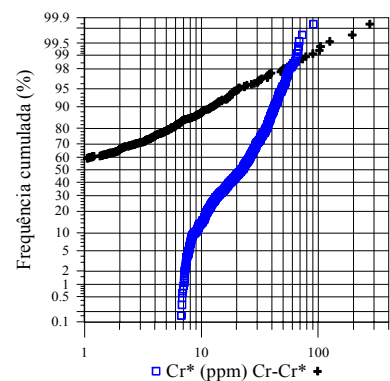
ppm



$$Cr^* = 0.606 + 0.091 \times Fe + 0.184 \times Al + 0.202 \times ZOM + 0.376 \times RC + 0.223 \times RM + 0.136 \times RD \quad (\text{Variância explicada} = 66.31\%)$$



— Limites Geostruturais e Falhas



$Cu^* = COBRE f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn)$ em SEDIMENTOS de CORRENTE

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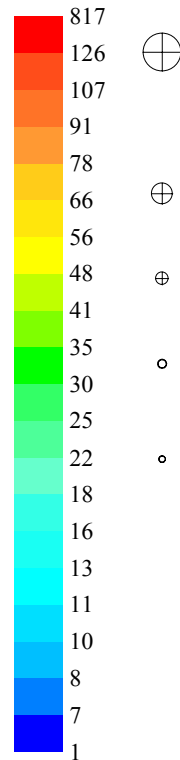
(<80#, Aqua Regia, ICP-AES, Krigagem)

Cu
*Sedimentos
de Corrente*

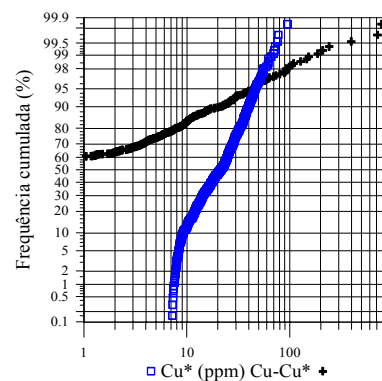
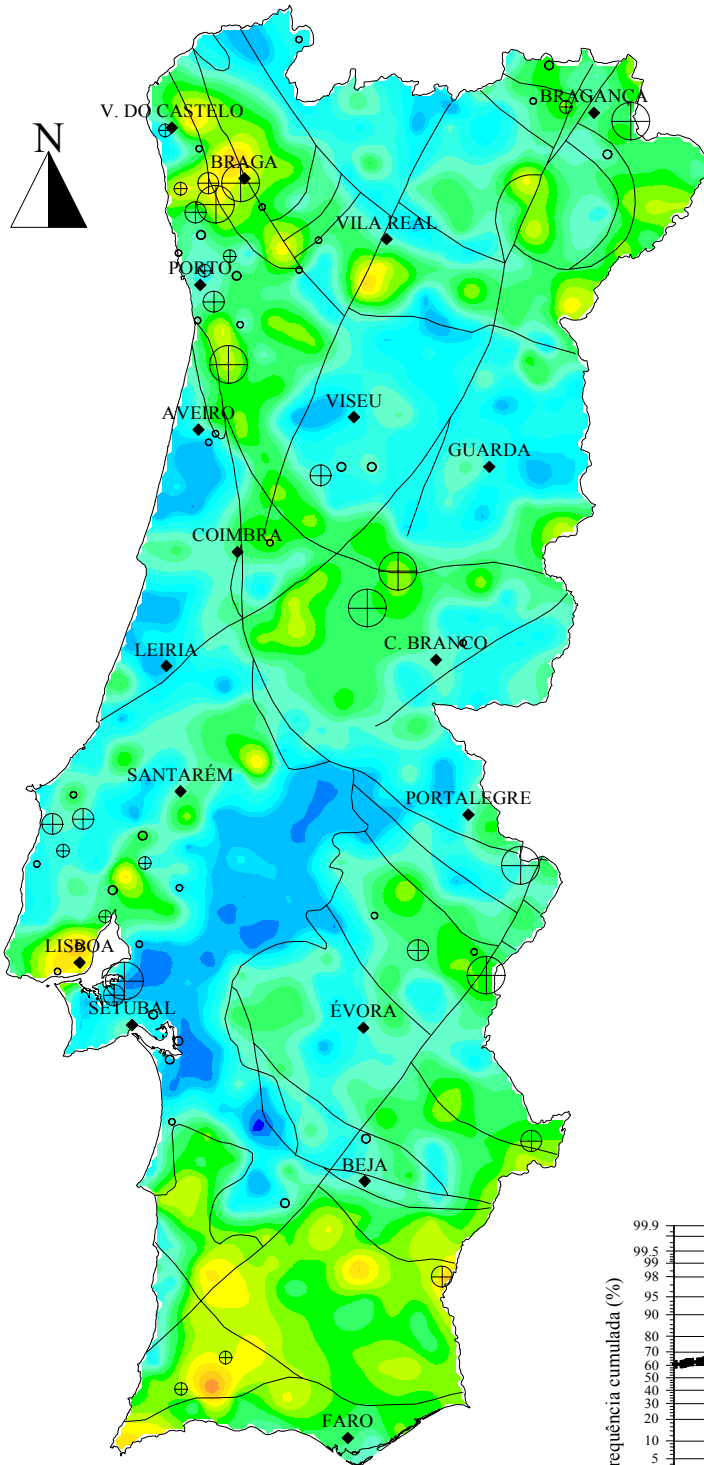
N=653

Cu^* (esperado) $Cu-Cu^*$ (residual)

ppm



$Cu^* = 0.639 + 0.100 \times Fe + 0.182 \times Al + 0.371 \times RC + 0.160 \times RM + 0.128 \times RD$ (Variância explicada=43.39%)



— Limites Geostruturais e Falhas

***La** = LANTÂNIO *f*(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE**

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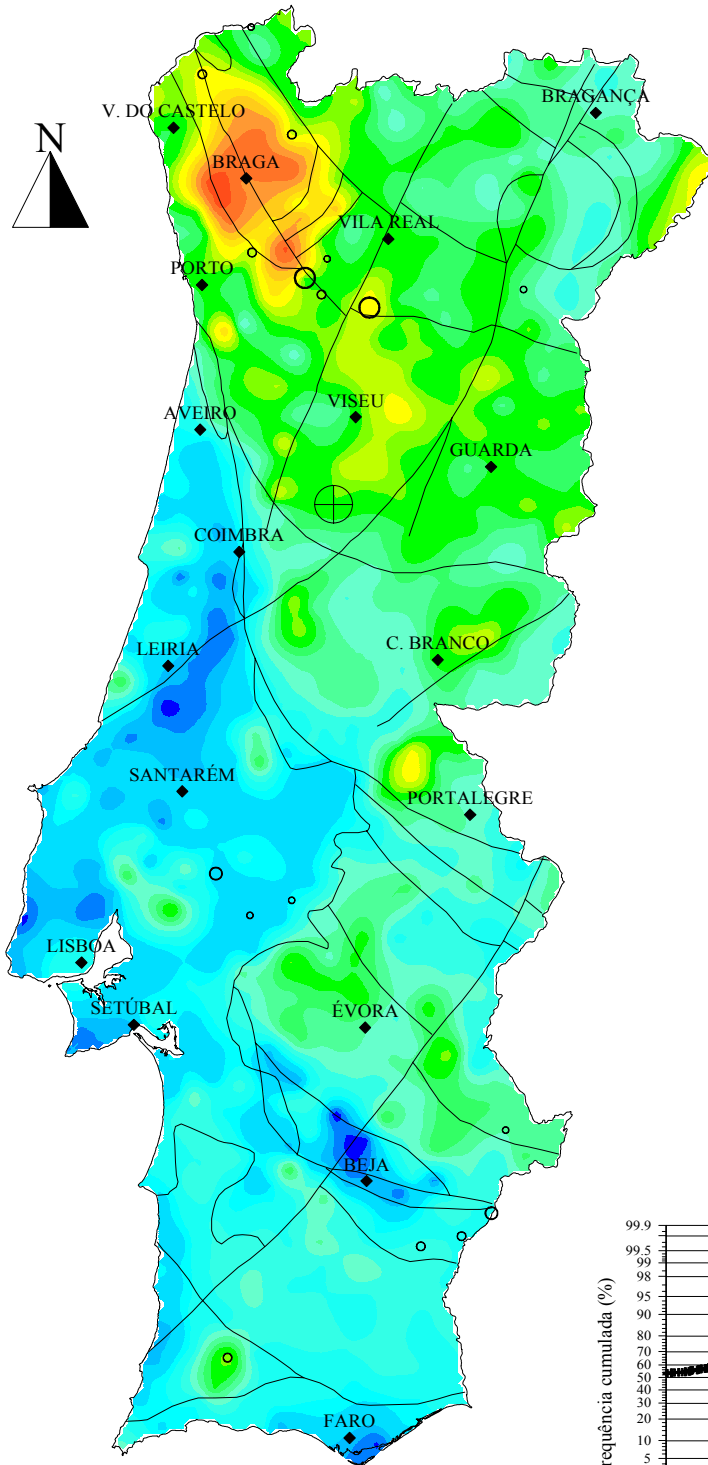
(<80#, Aqua Regia, ICP-AES, Krigagem)

La

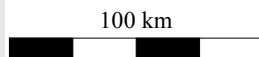
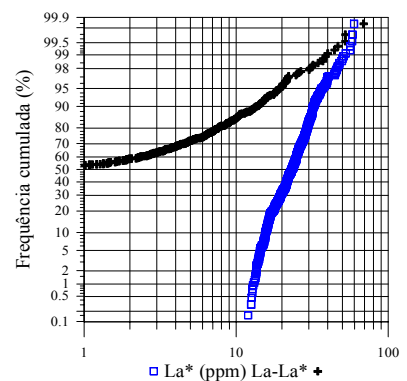
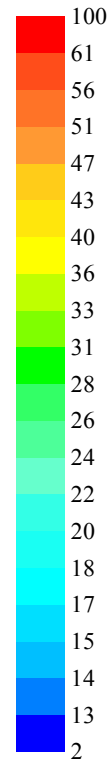
*Sedimentos
de Corrente*

N=653

$$La^* = 0.813 + 0.118 \times Al + 0.361 \times RG + 0.102 \times ZCI + 0.224 \times RC + 0.343 \times RD + 0.269 \times RM + 0.095 \times ZOM \quad (\text{Variância explicada} = 36.55\%)$$



La* (esperado)
La-La* (residual)
ppm



— Limites Geostruturais e Falhas

***Ni** = NÍQUEL f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE**

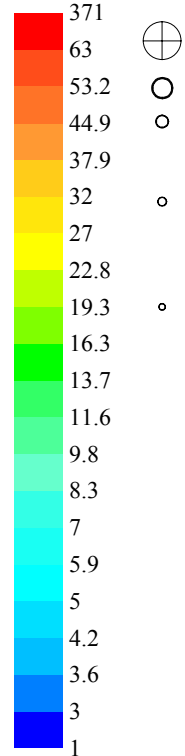
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(<80#, Aqua Regia, ICP-AES, Krigagem)

Ni
***Sedimentos
de Corrente***

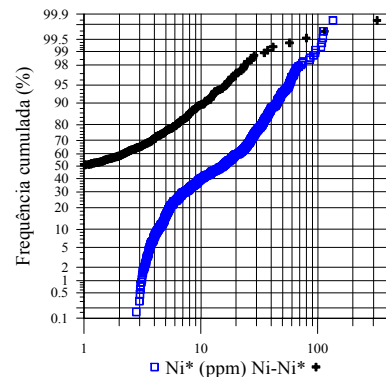
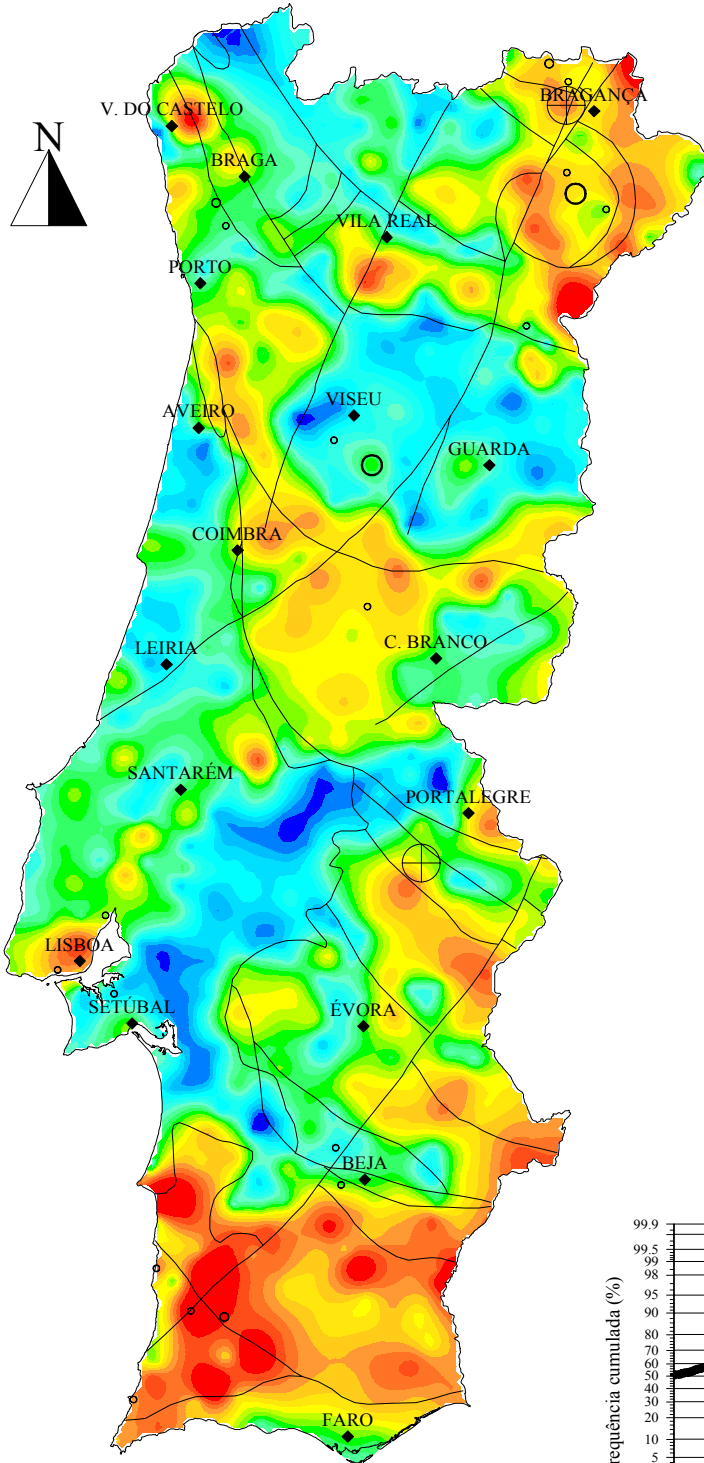
N=653

*Ni** (esperado) ppm
*Ni-Ni** (residual)



$$Ni^* = -0.288 + 0.158 \times Fe + 0.446 \times RM + 0.567 \times RC + 0.207 \times Mn + 0.296 \times RD + 0.086 \times Al + 0.098 \times ZCI + 0.070 \times ZOM$$

(Variância explicada=72.92%)



Pb* = CHUMBO f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE

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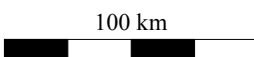
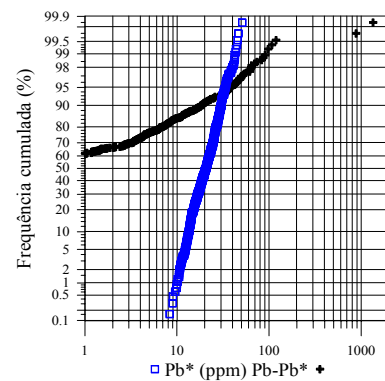
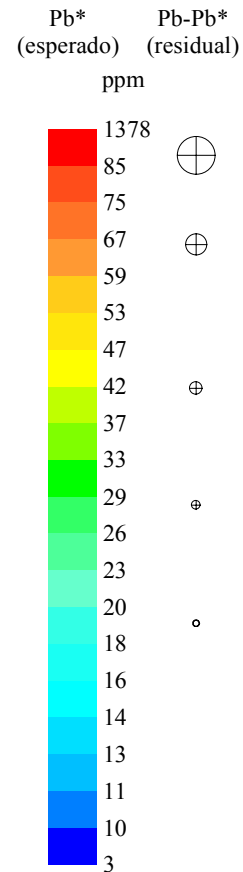
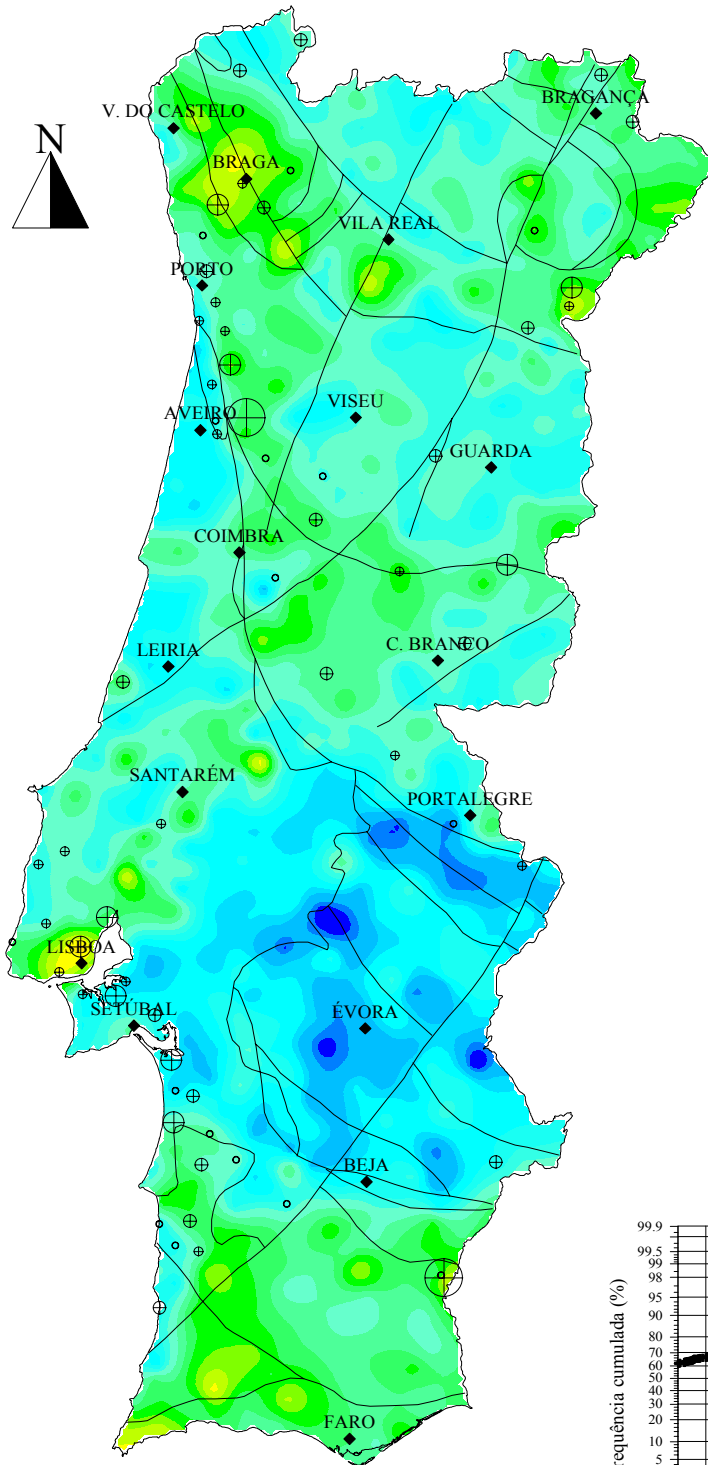
(<80#, Aqua Regia, ICP-AES, Krigagem)

Pb

*Sedimentos
de Corrente*

N=653

$Pb^* = 0.792 + 0.070 \times Fe + 0.088 \times Al + 0.220 \times ZCI + 0.157 \times ZSP + 0.13 \times RC$ (Variância explicada=26.29%)



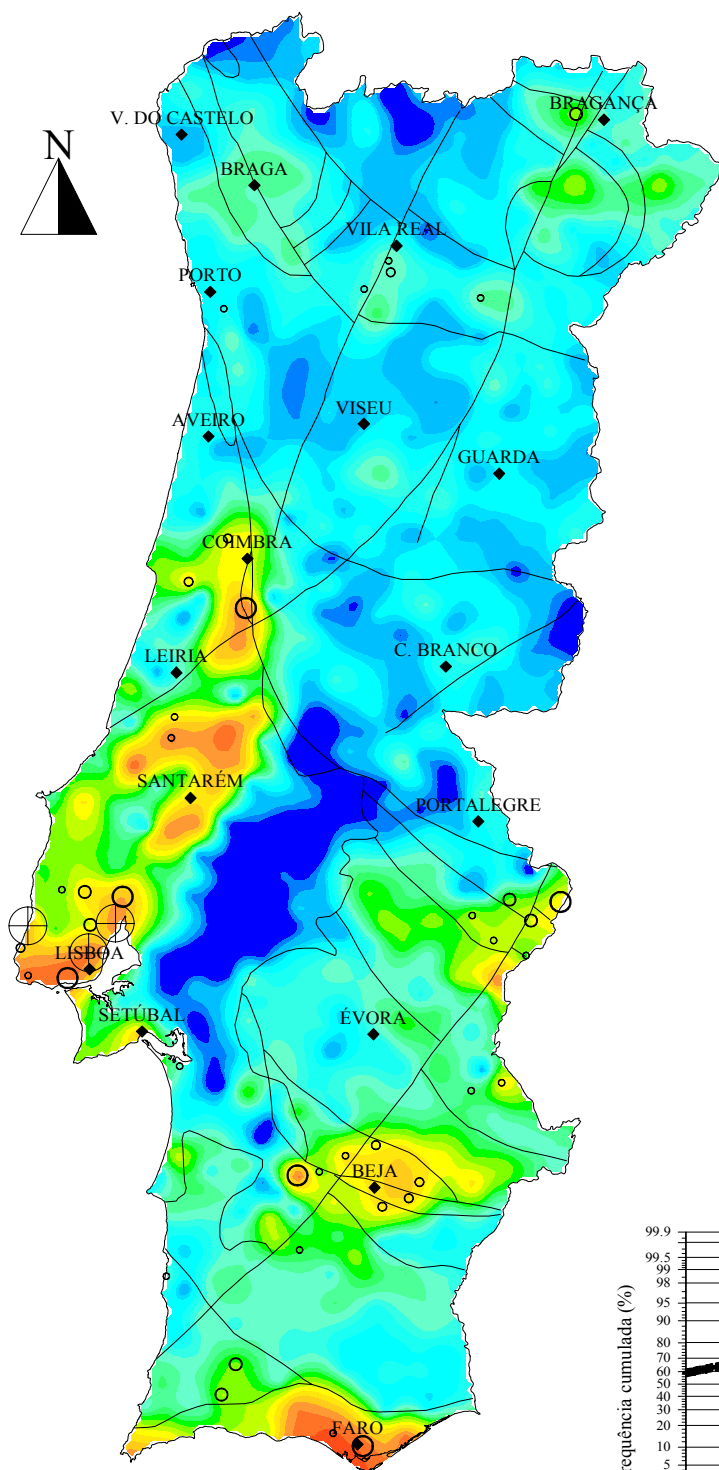
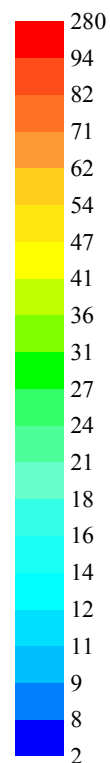
— Limites Geostruturais e Falhas

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Sr
Sedimentos
de Corrente

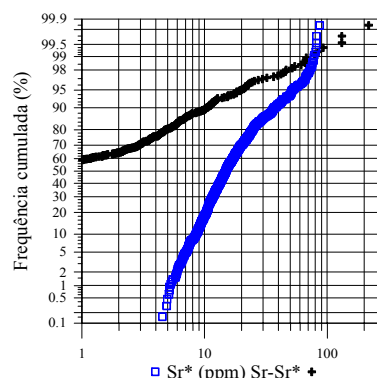
N=653

Sr* (esperado) ppm
 Sr-Sr* (residual) ppm



$Sr^* = 0.963 + 0.391 \times Ca + 0.029 \times Fe + 0.085 \times Al + 0.079 \times Mn + 0.080 \times Orlas + 0.044 \times RM$ (Variância explicada=72.33%)

— Limites Geostruturais e Falhas



Th* = TÓRIO f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE

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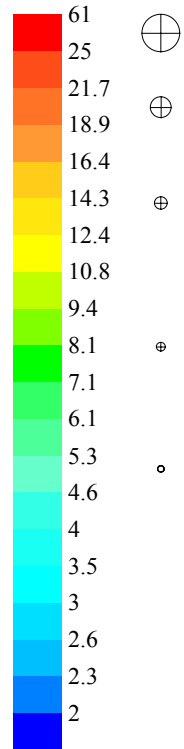
(<80#, Aqua Regia, ICP-AES, Krigagem)

Th

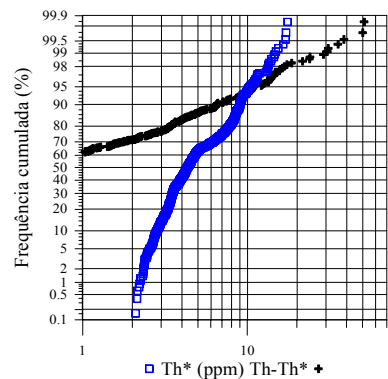
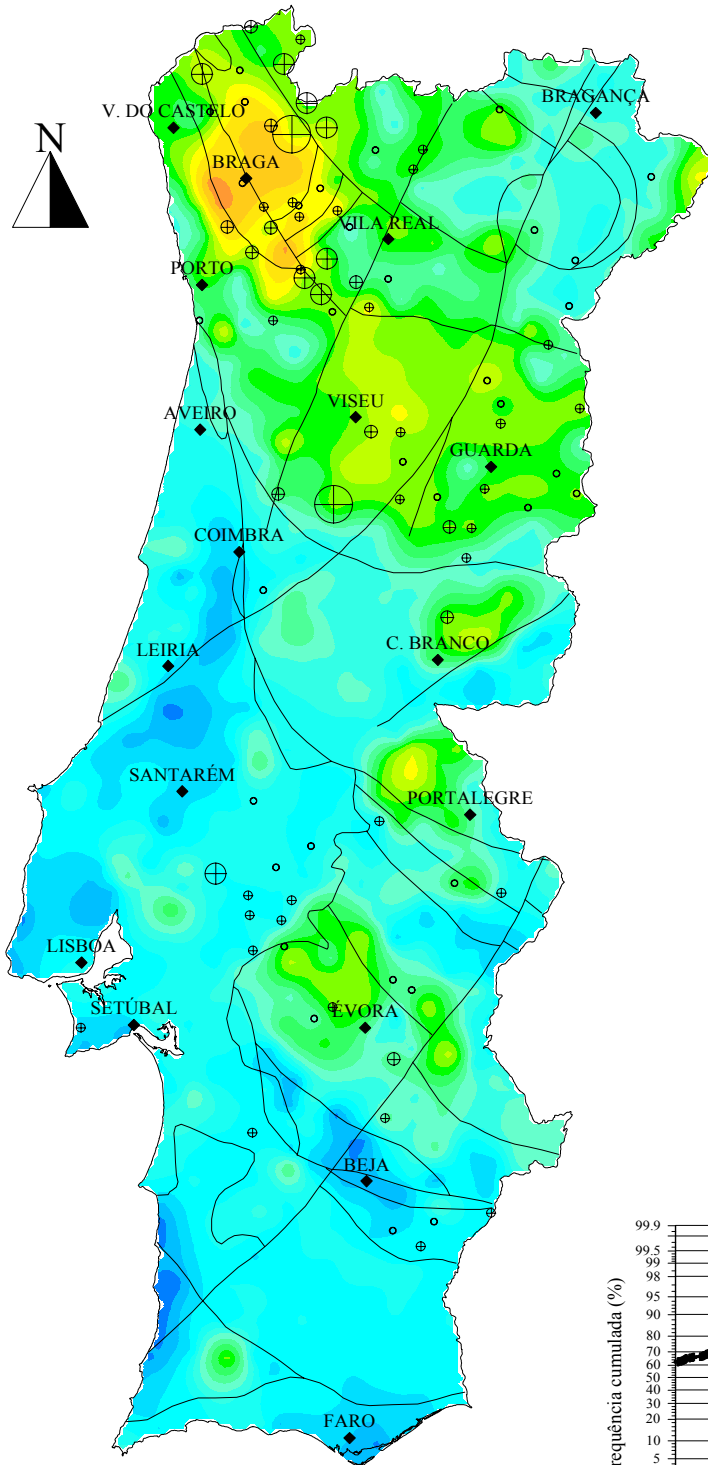
*Sedimentos
de Corrente*

N=653

Th* (esperado)
Th-Th* (residual)
ppm



$Th^* = -0.024 + 0.595 \times RG + 0.123 \times Al + 0.207 \times RD + 0.310 \times RM + 0.302 \times Orlas + 0.155 \times ZCI + 0.183 \times ZOM$ (Variância explicada=31.34%)



— Limites Geostruturais e Falhas

$V^* = \text{VANÁDIO } f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) \text{ em SEDIMENTOS de CORRENTE}$

$$V^* = -0.489 + 0.101 \times Fe + 0.395 \times ZOM + 0.180 \times Al + 0.213 \times Orlas + 0.117 \times RC + 0.067 \times RM + 0.072 \times Mn + 0.057 \times ZCI \quad (\text{Variância explicada} = 70.34\%)$$

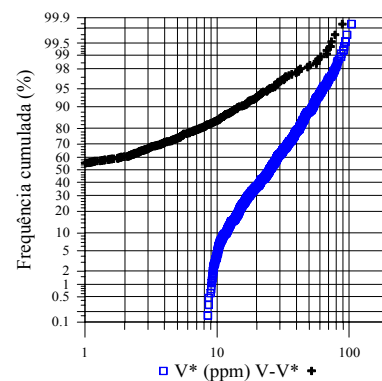
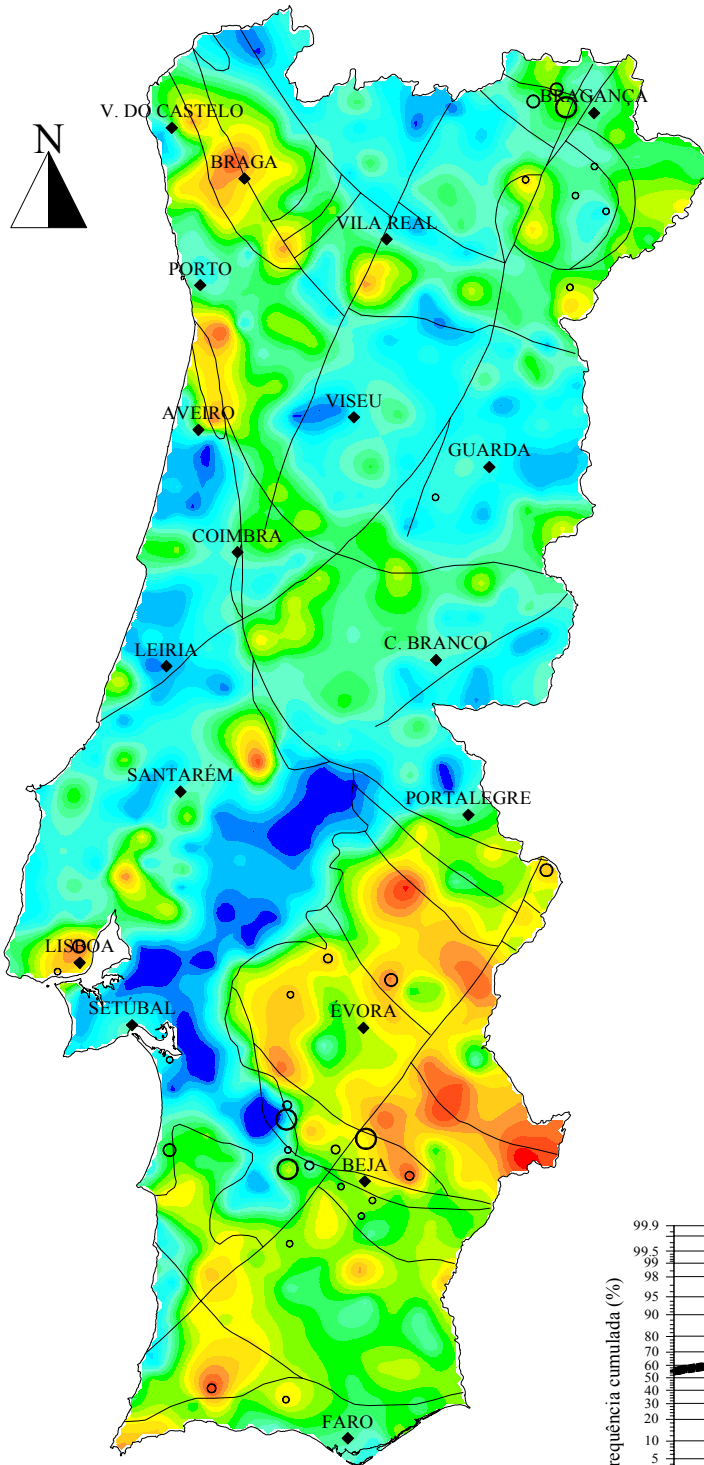
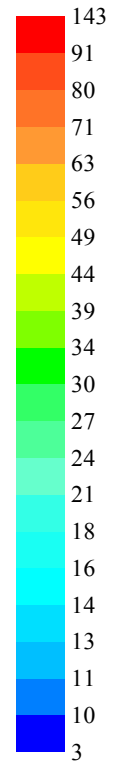
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(<80#, Aqua Regia, ICP-AES, Krigagem)

V
Sedimentos de Corrente

N=653

V* (esperado) ppm
V-V* (residual)



Zn* = ZINCO f(RG, RM, RS, RC, ZCI, ZOM, ZSP, Orlas, Al, Fe, Mn) em SEDIMENTOS de CORRENTE

$$Zn^* = 0.741 + 0.100 \times Al + 0.098 \times Fe + 0.274 \times ZCI + 0.322 \times RC + 0.149 \times Mn + 0.147 \times RG + 0.133 \times Orlas + 0.11 \times RM \quad (\text{Variância explicada} = 52.70\%)$$

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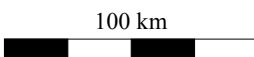
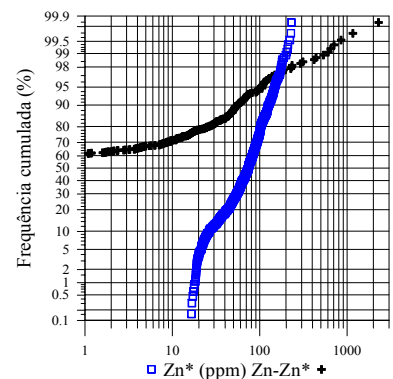
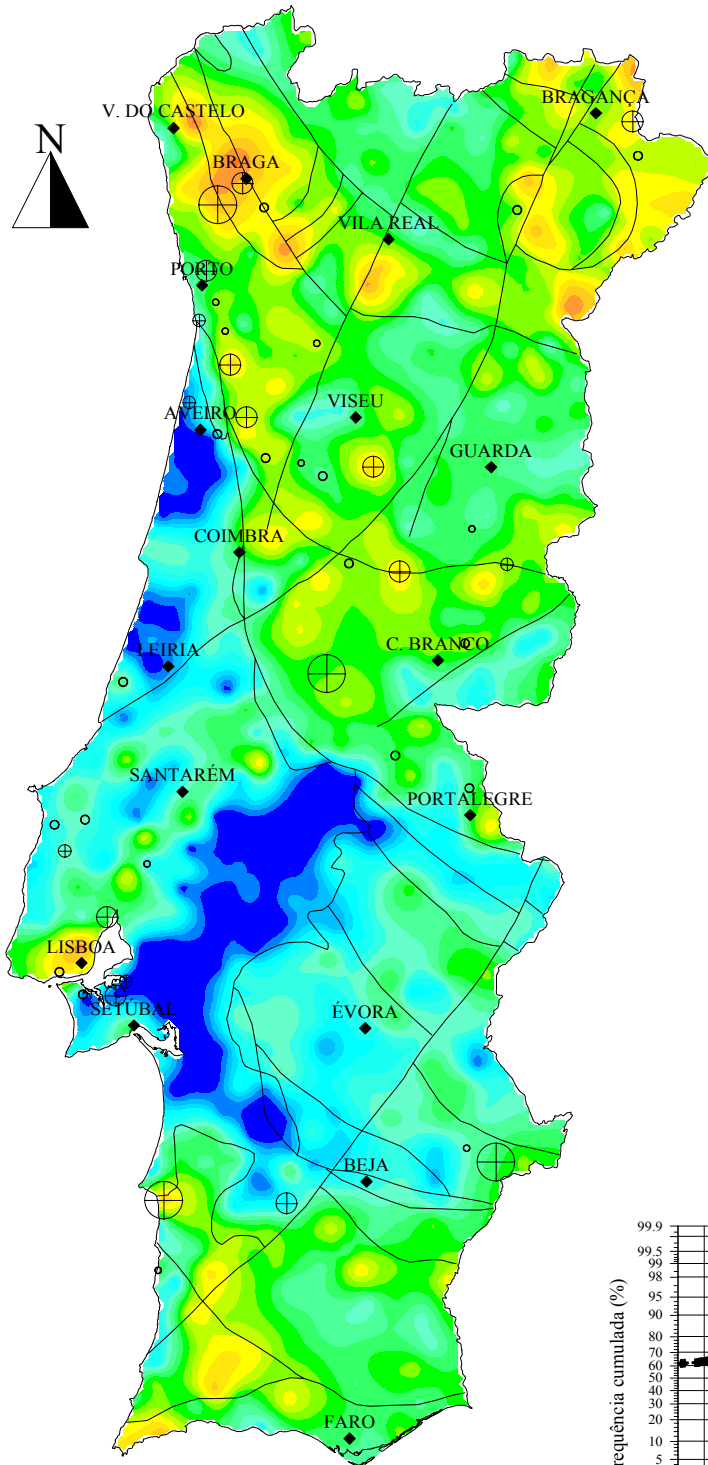
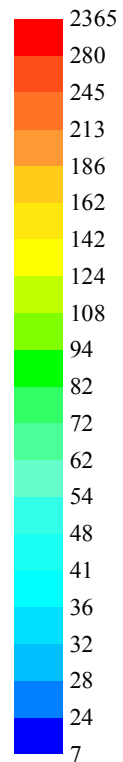
(<80#, Aqua Regia, ICP-AES, Krigagem)

Zn

Sedimentos de Corrente

N=653

Zn* (esperado) Zn-Zn* (residual)
ppm



— Limites Geostruturais e Falhas