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Seminário Técnico de Avaliação Geoeconômica

Polígono do Pré-Sal | Bacia de Campos

Blocos: *Azurita, Calcita, Dolomita, Hematita, Limonita, Magnetita e Siderita*

Superintendência de Avaliação Geológica e Econômica (SAG)

Apresentador: **Ronan Ávila**

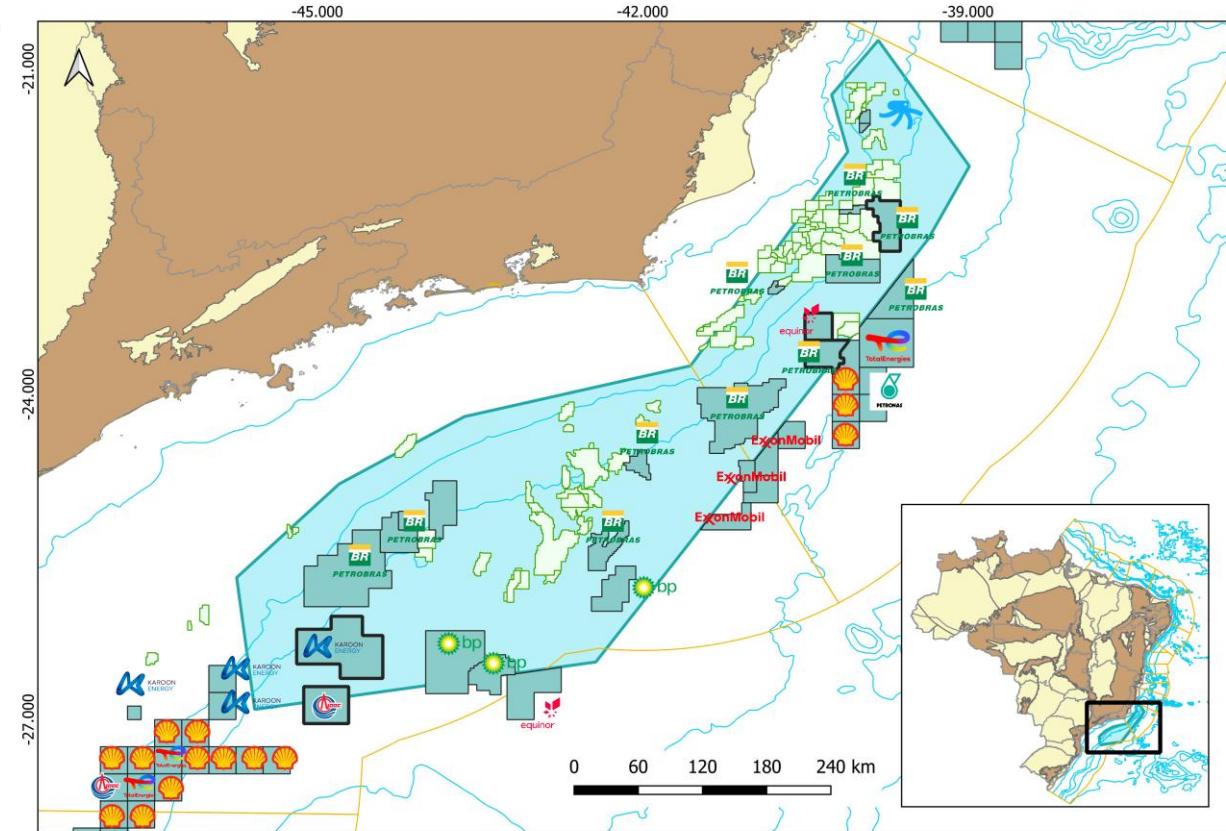
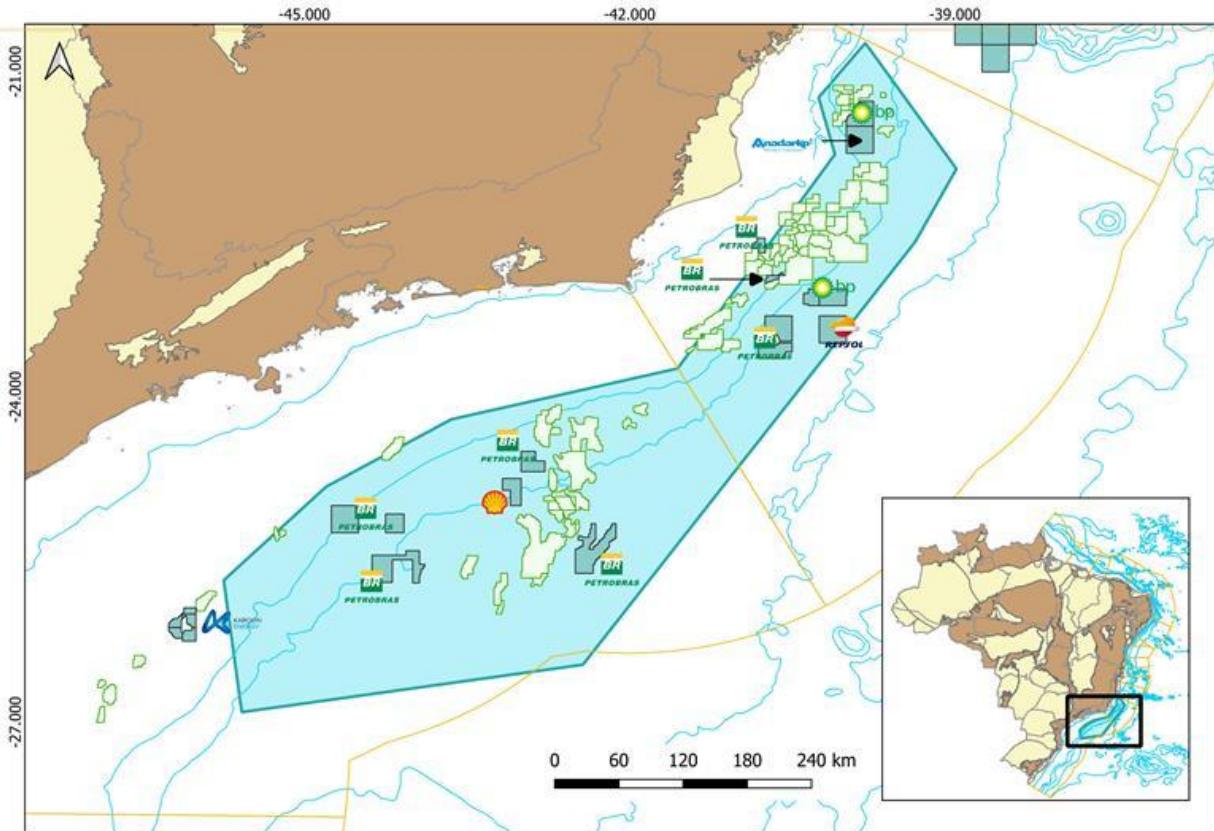
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27 de Outubro de 2025



Evolução dos Contratos (Bacias de Santos e Campos)

2016 2025



Blocos de Campos | 07 Blocos Objeto do Seminário Técnico

Projeto Calcita (3 Blocos)

Azurita (1), **Calcita** (2) e Dolomita (3)

Resolução CNPE nº 19 (out/2025)

<https://www.gov.br/mme/pt-br/assuntos/conselhos-e-comites/cnpe/resolucoes-do-cnpe/2025/resolucao-19.pdf>

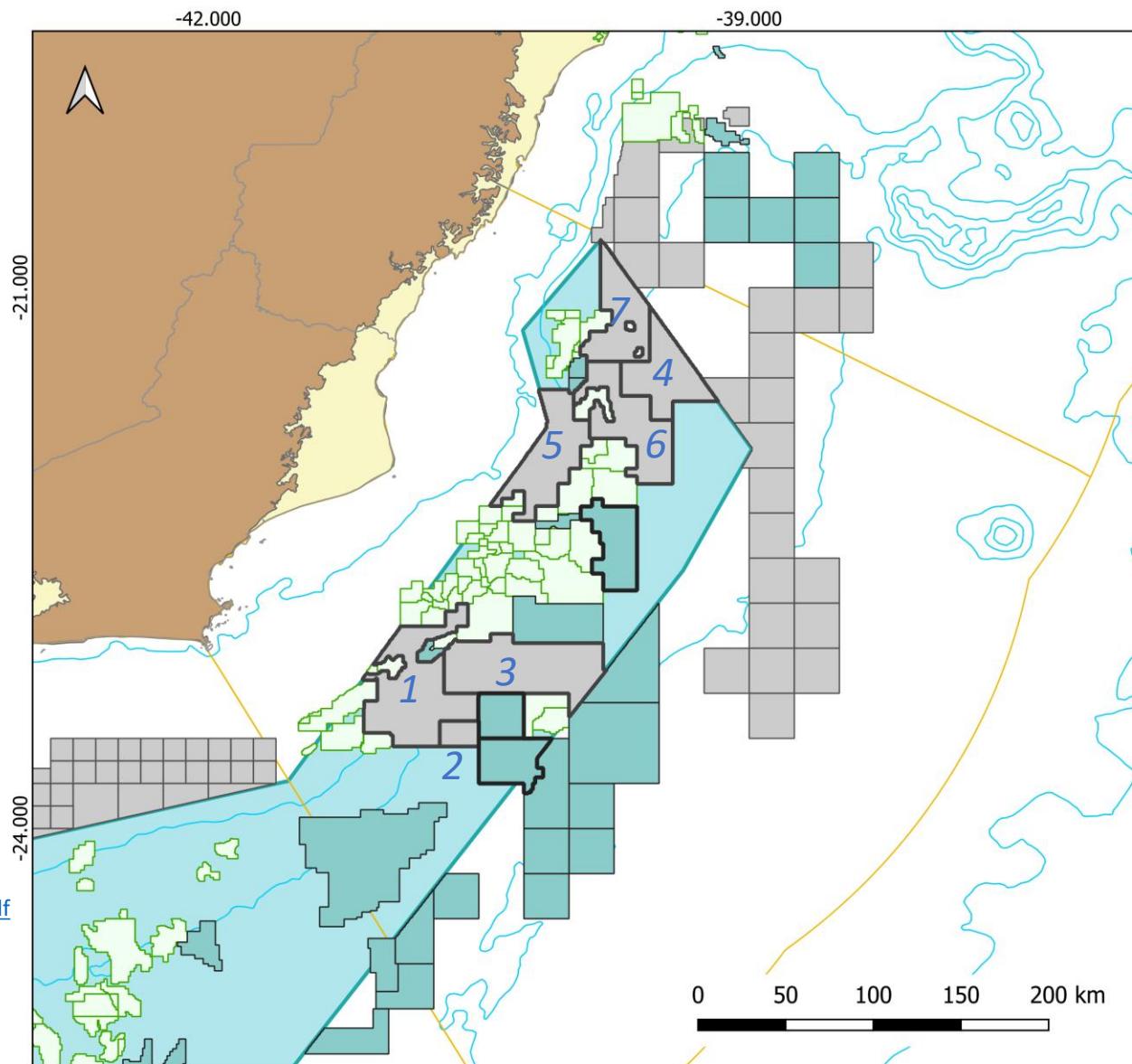
Projeto Hematita (4 Blocos)

Hematita (4), Limonita (5),

Magnetita (6) e Siderita (7)

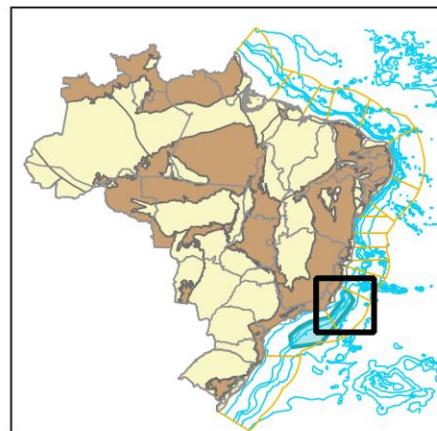
Resolução CNPE nº 3 (fev/2025)

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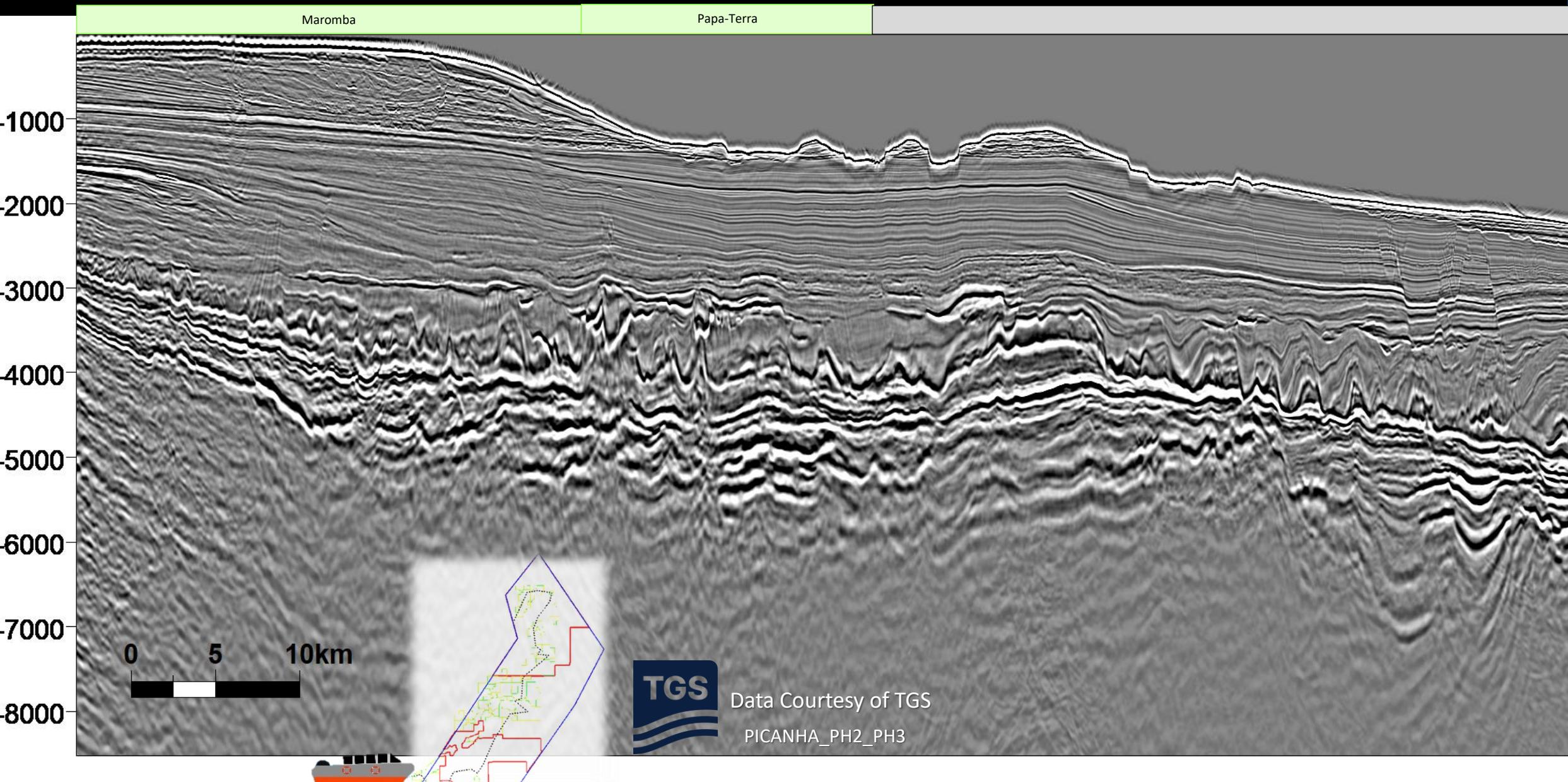


Legenda

- Bloco Projeto Hematita/Calcita
 - Bloco em oferta OPC
 - Arrematados 3º Ciclo OPP
 - Bloco Exploratório
 - Campo em Des. ou Produção
 - Polígono Pré-sal
- Bacias sedimentares
- Marítima
 - Terrestre
 - Embasamento



Bacia de Campos (Projetos Calcita e Hematita)



Os estudos resultaram na indicação de 3 blocos

Projeto Calcita (3 Blocos)

Azurita, Calcita e Dolomita

Resolução CNPE nº 19 (out/2025)

<https://www.gov.br/mme/pt-br/assuntos/conselhos-e-comites/cnpe/resolucoes-do-cnpe/2025/resolucao-19.pdf>

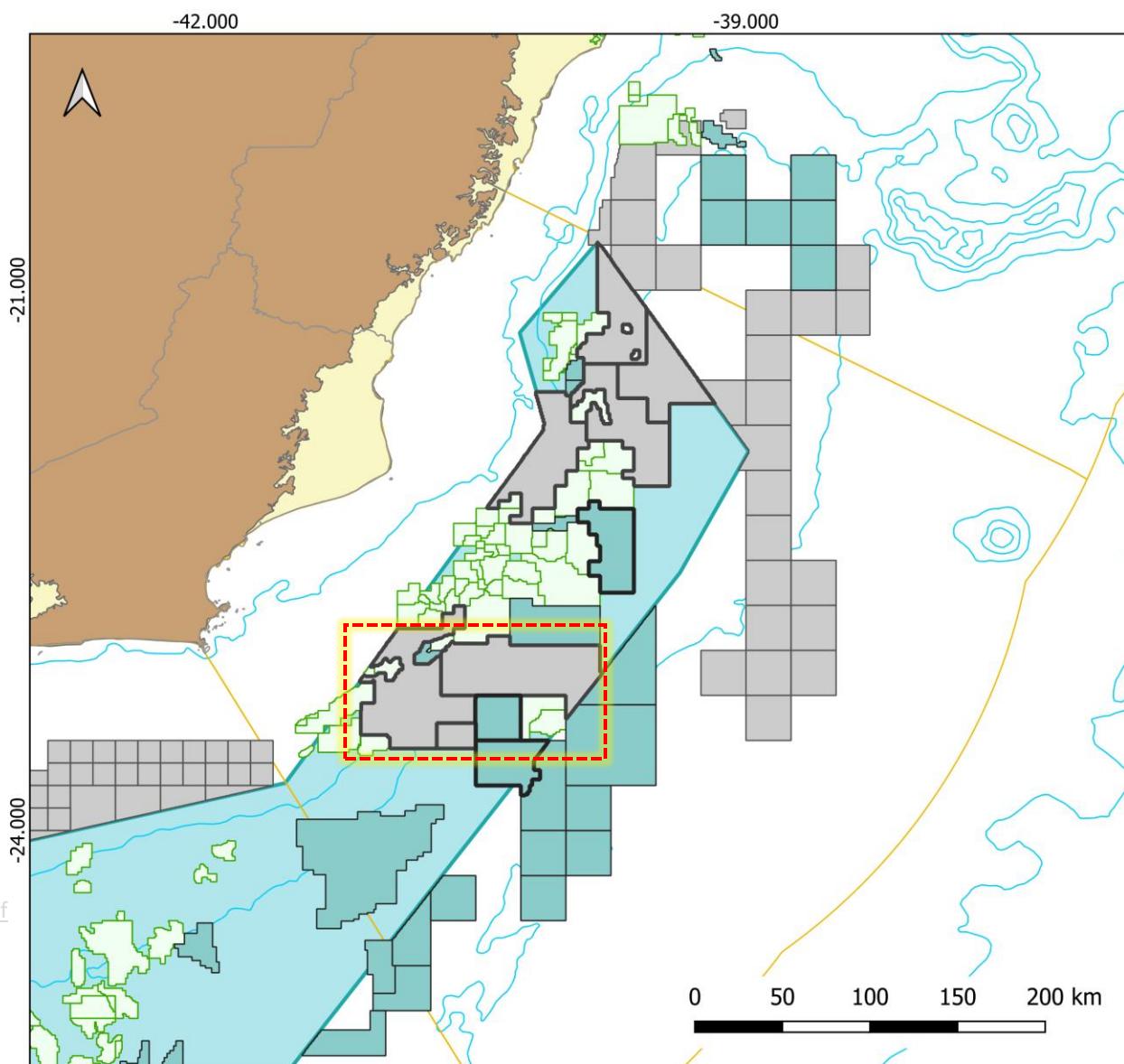
Projeto Hematita (4 Blocos)

Hematita, Limonita,

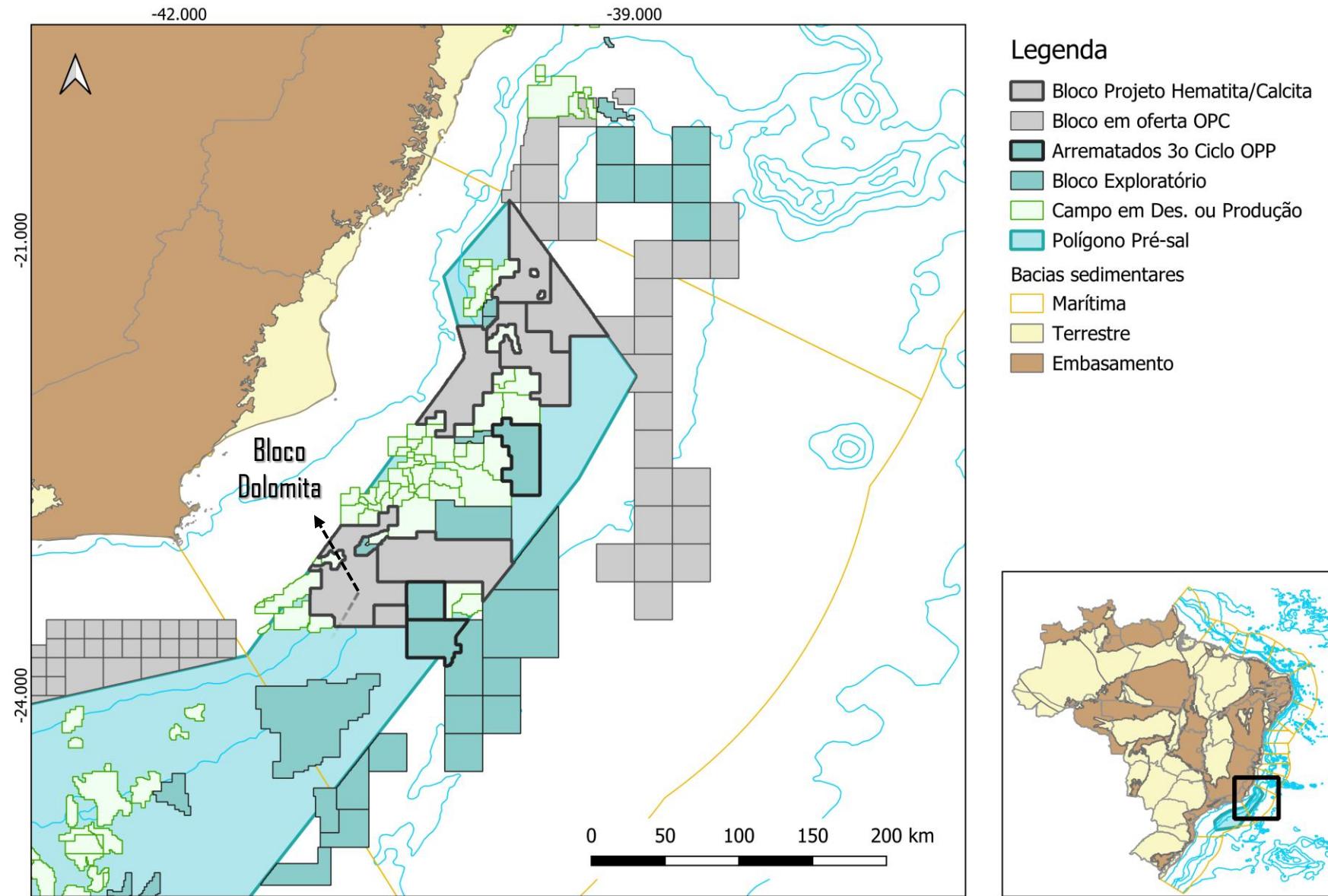
Magnetita e Siderita

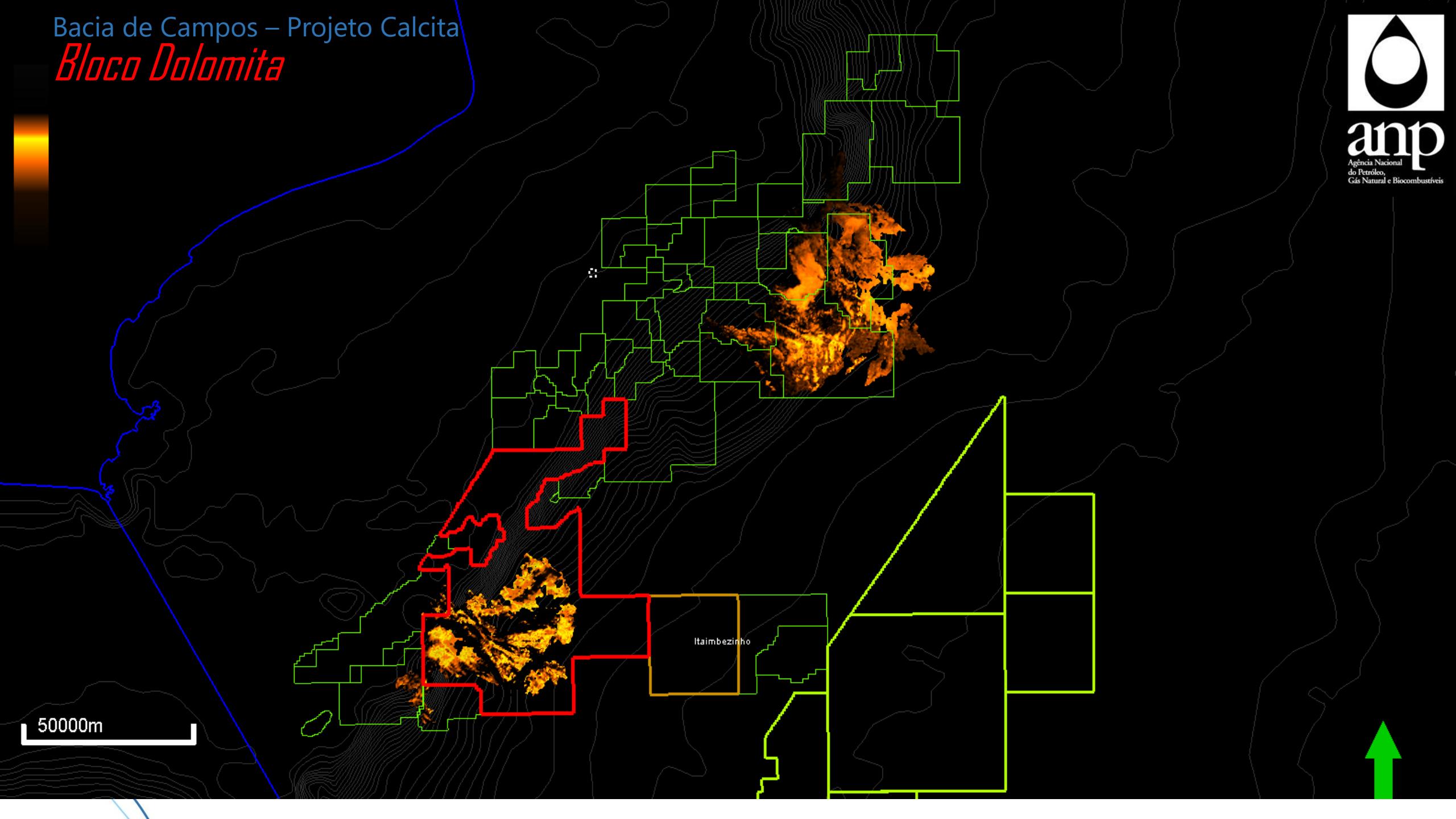
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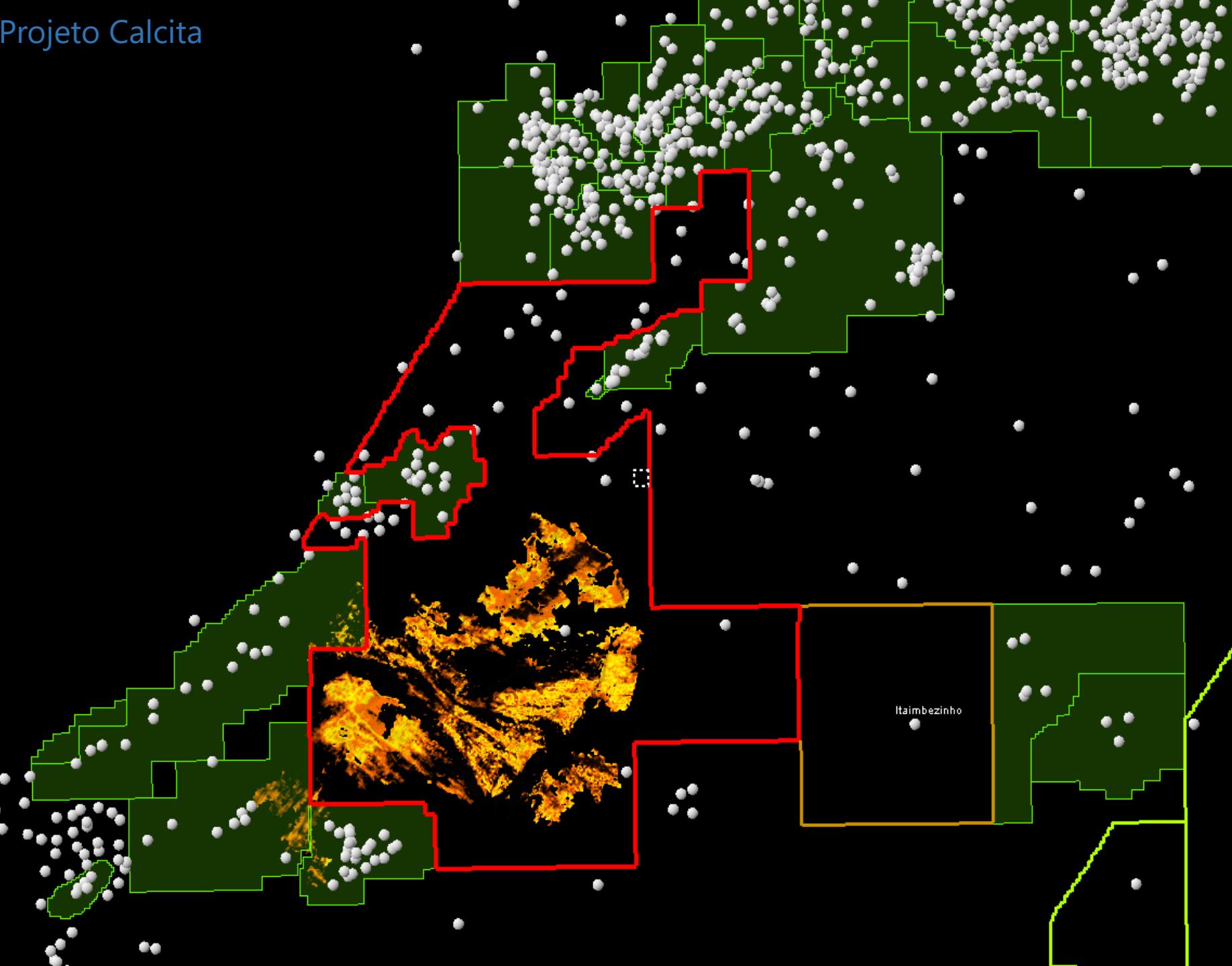
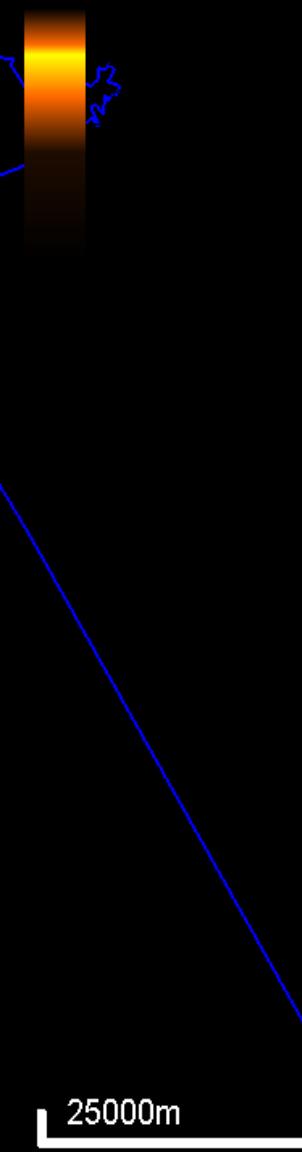


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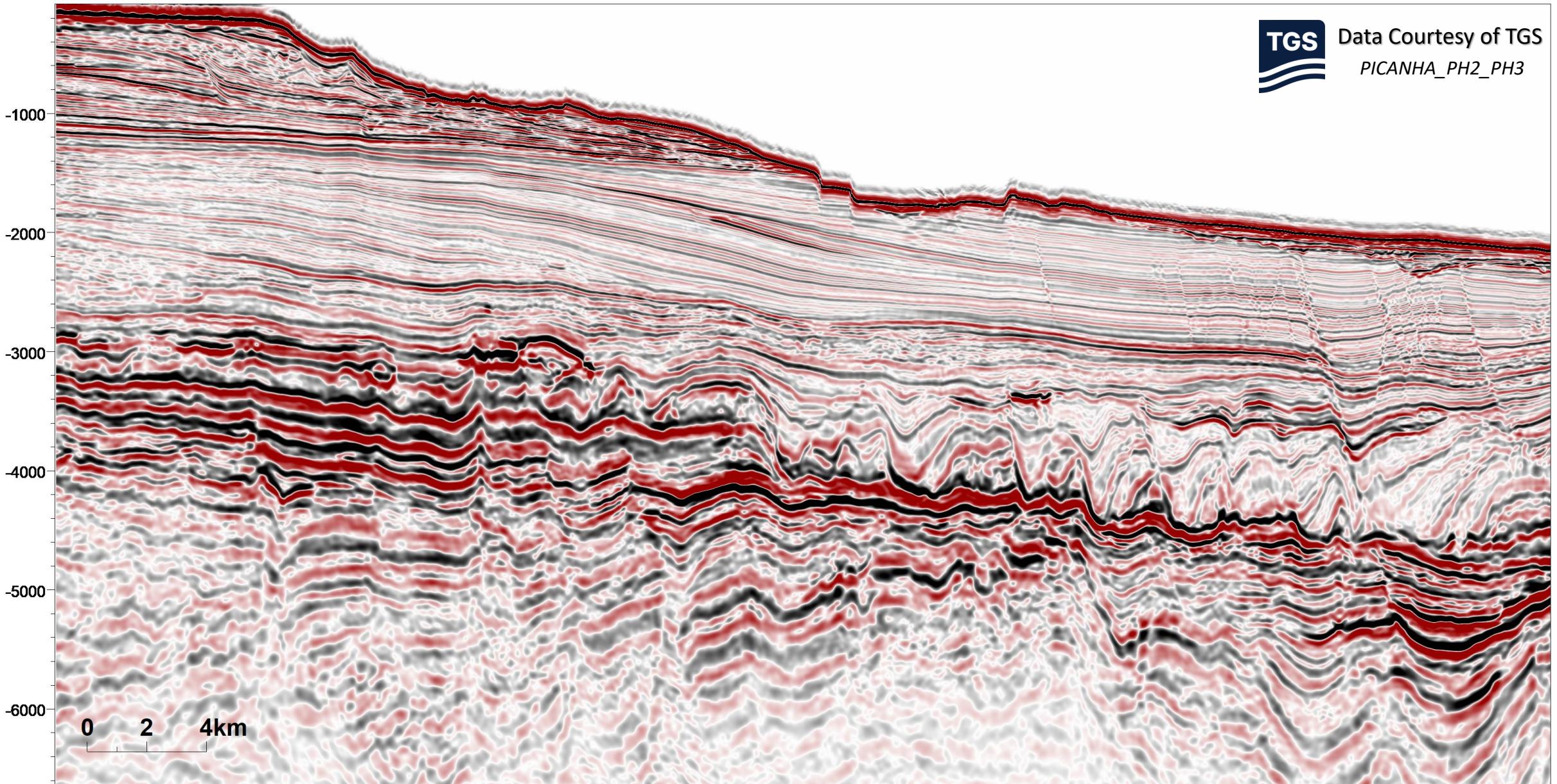




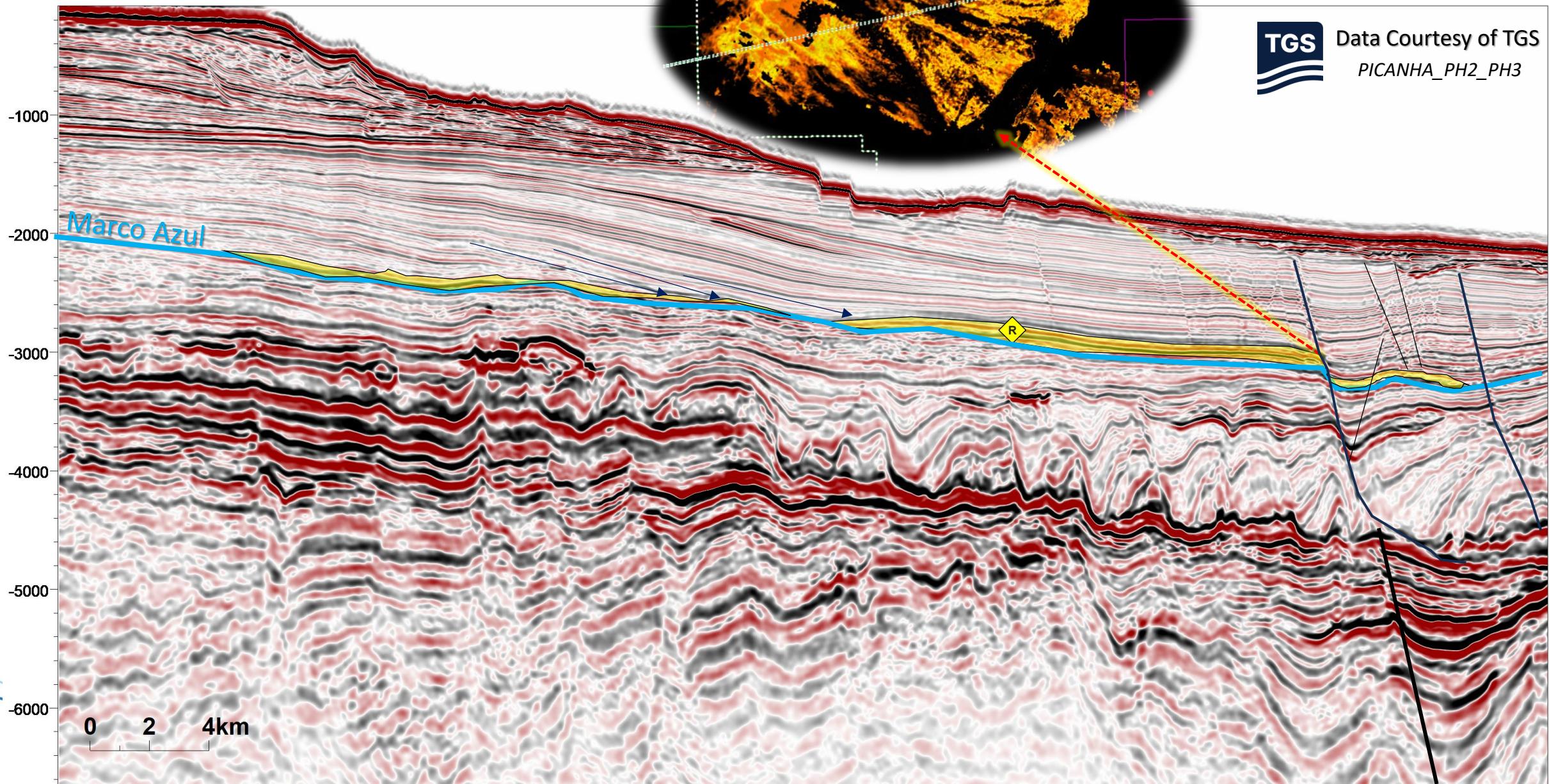
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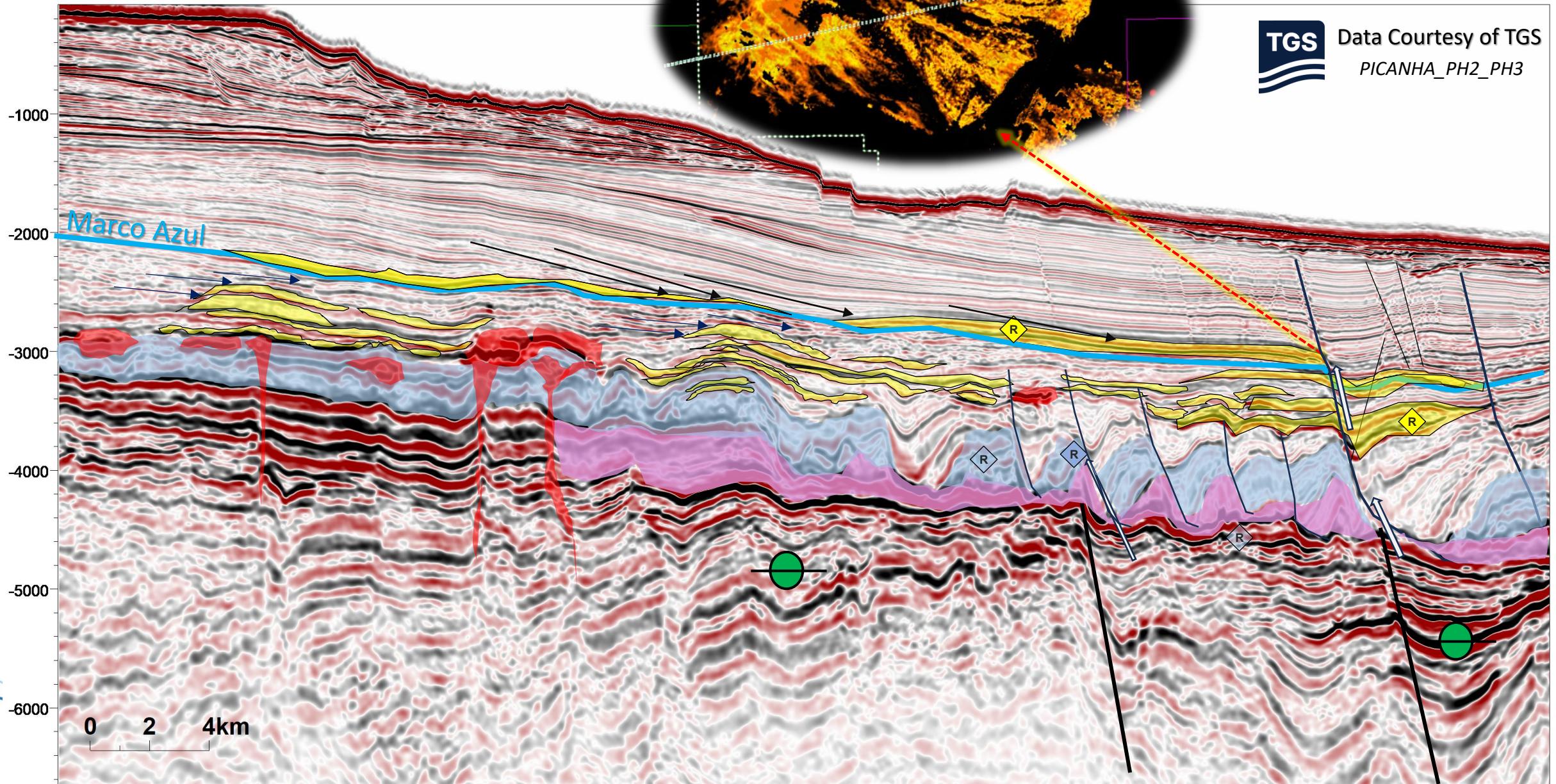
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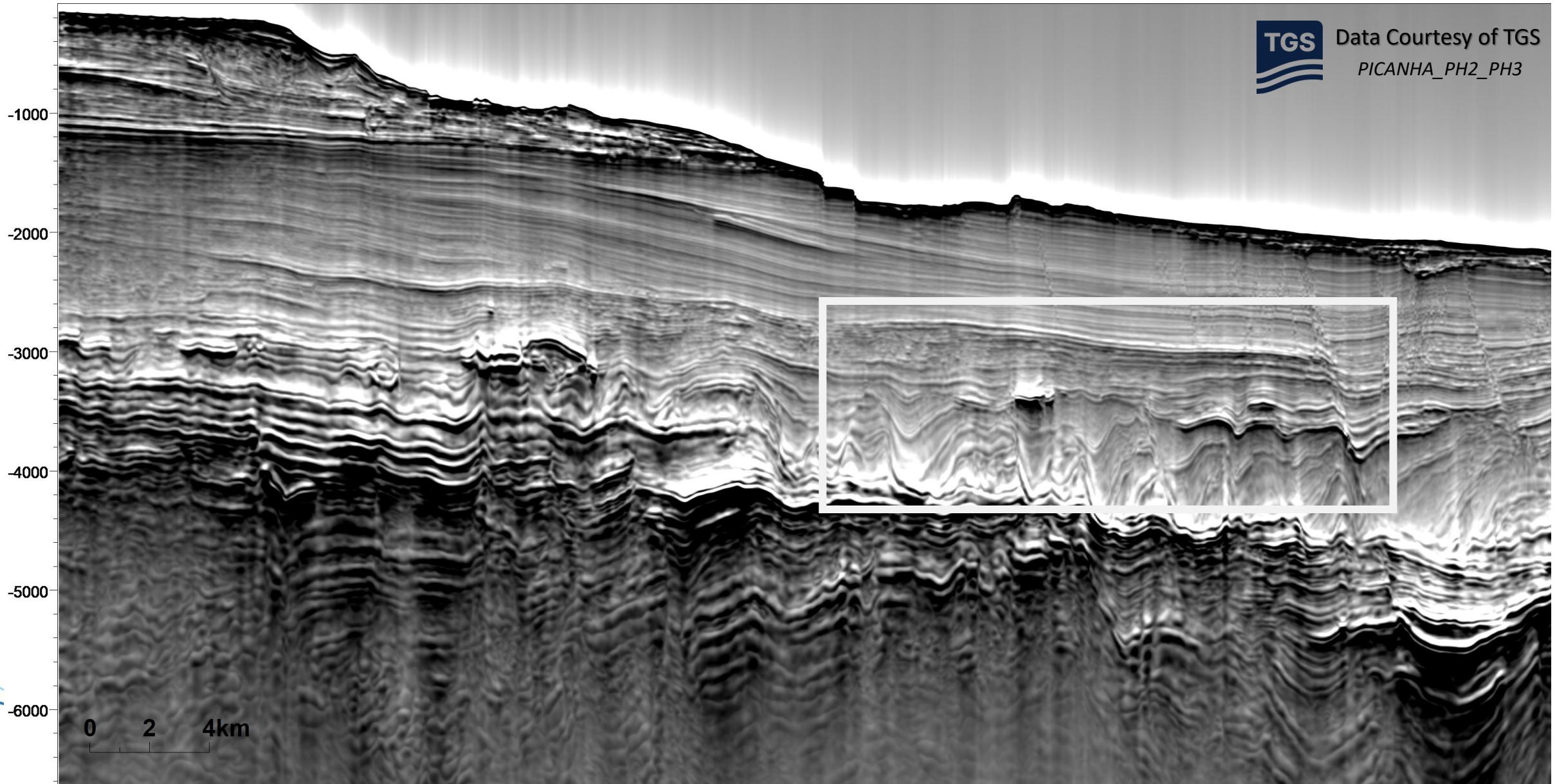
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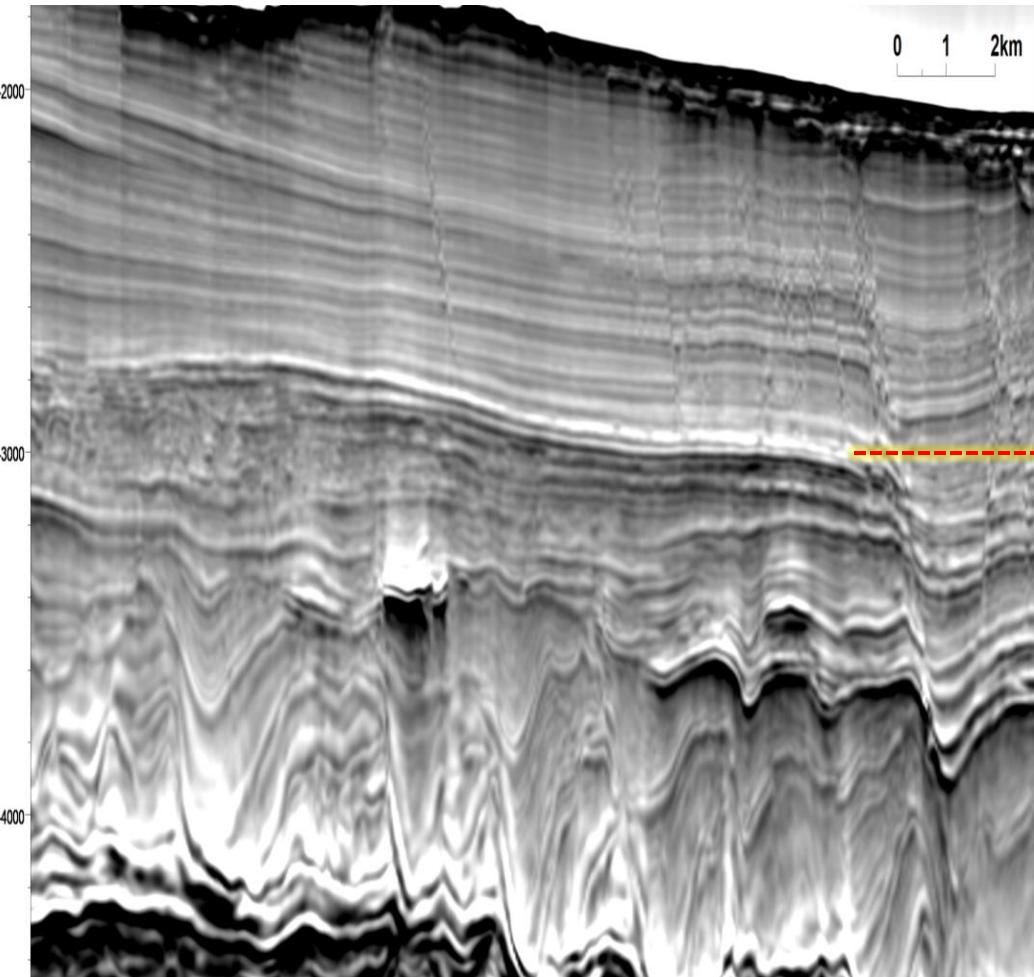
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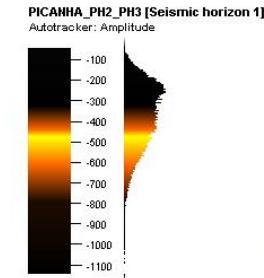
Bloco Dolomita



Bloco Dolomita



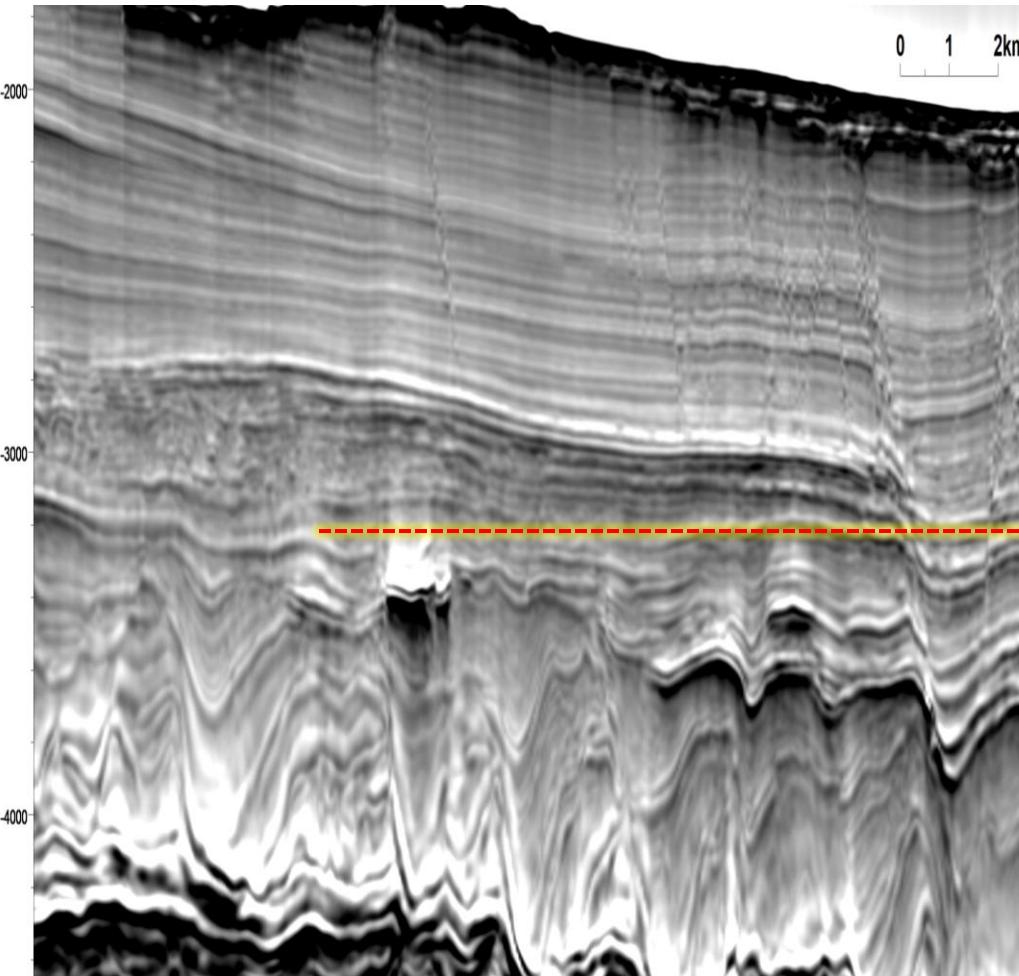
Amplitude



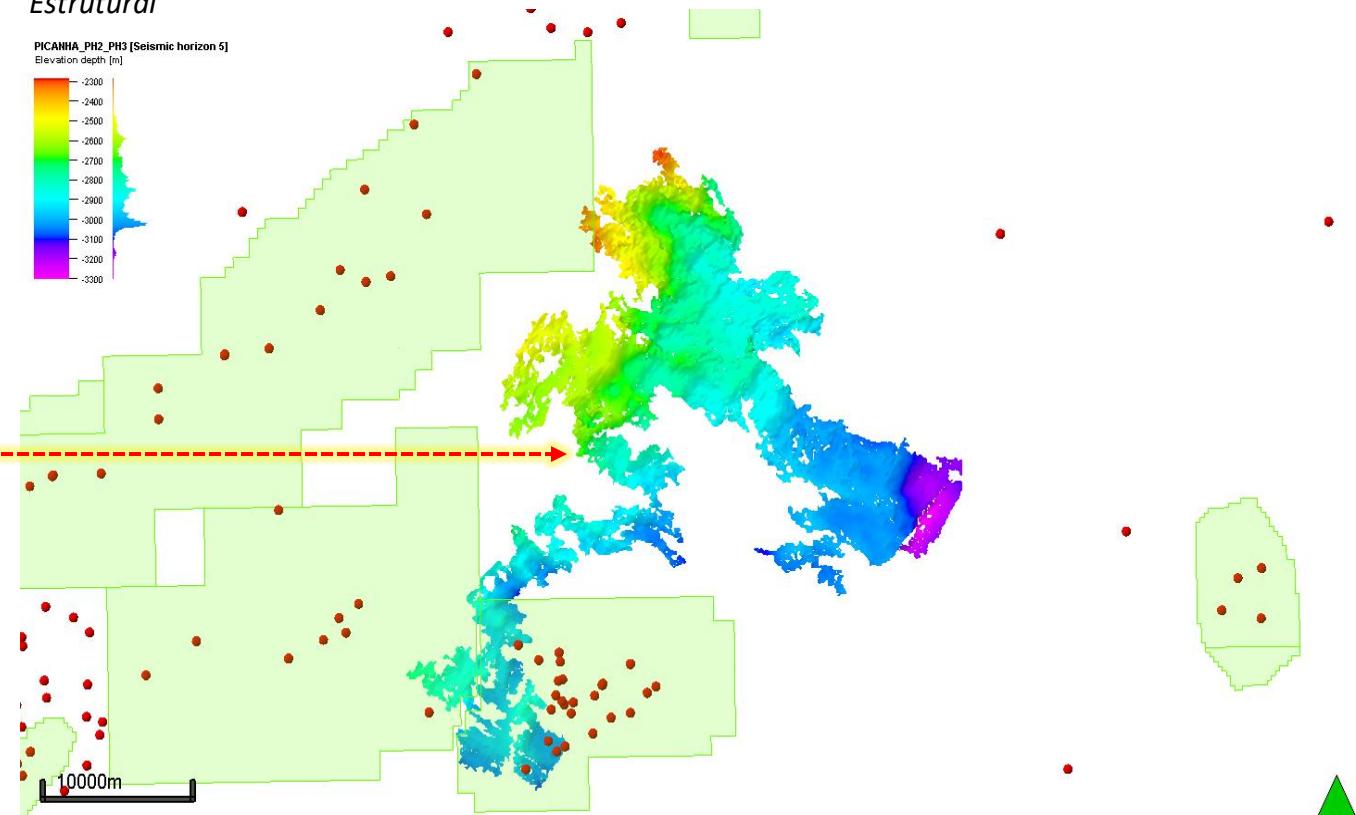
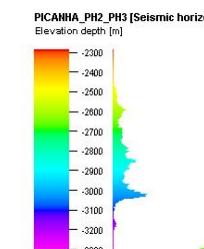
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Data Courtesy of TGS
PICANHA_PH2_PH3

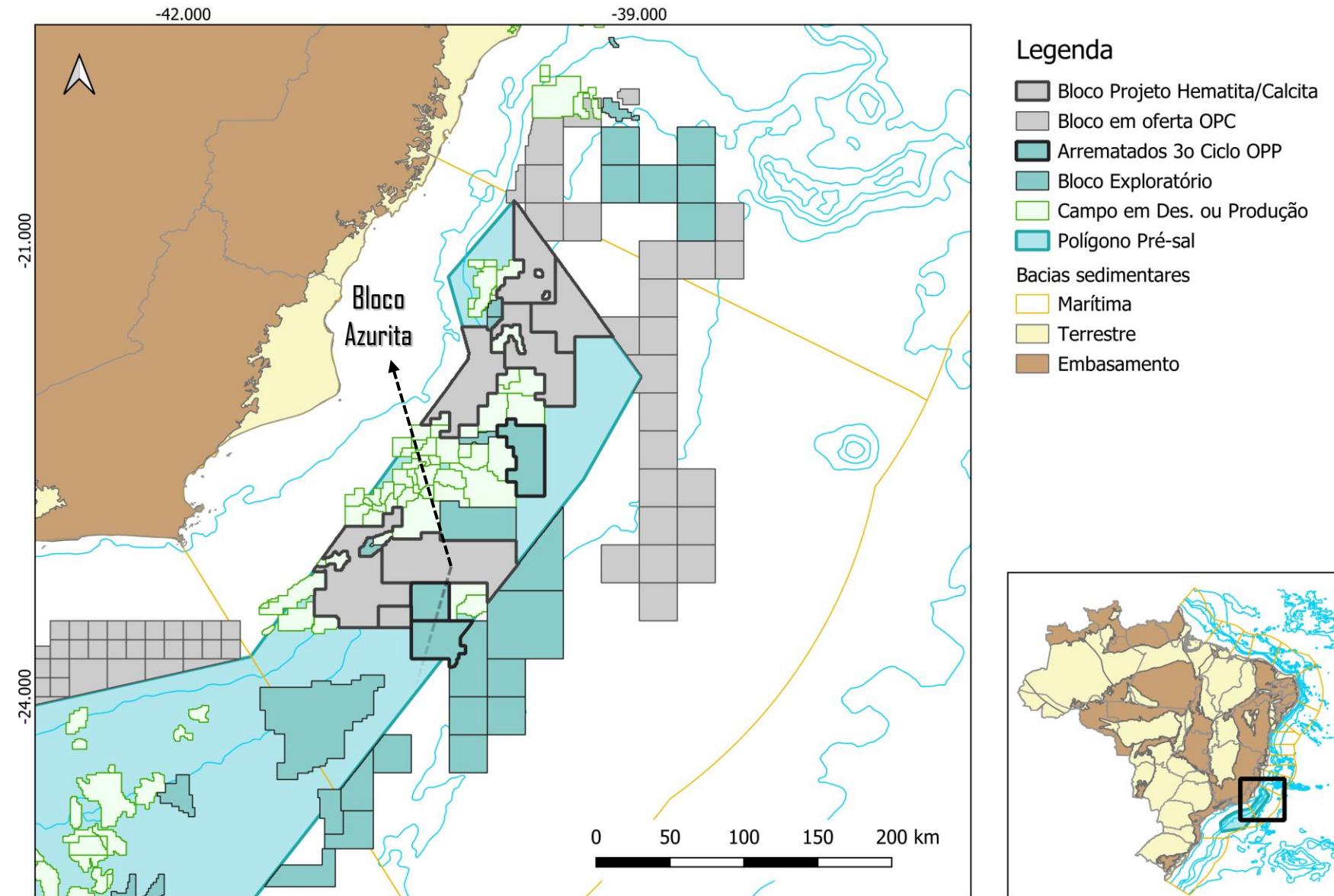


Estrutural

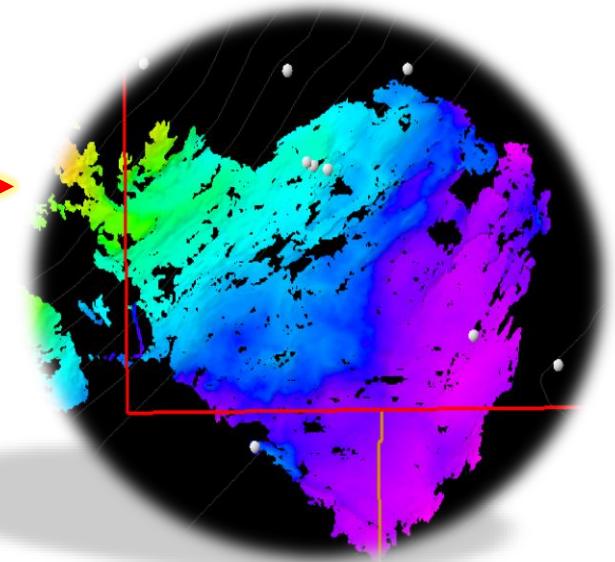
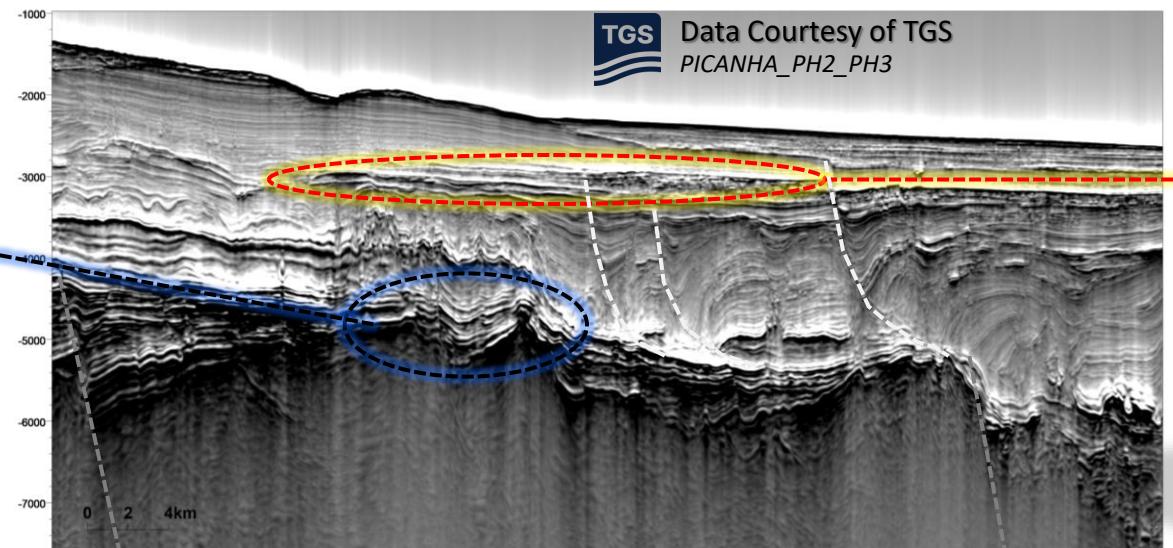
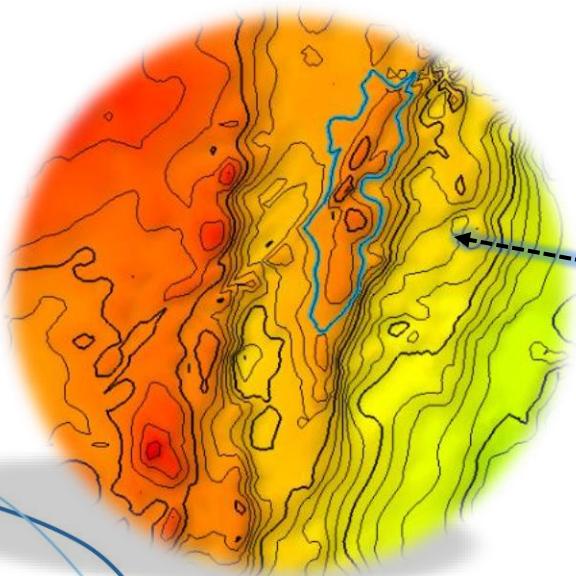
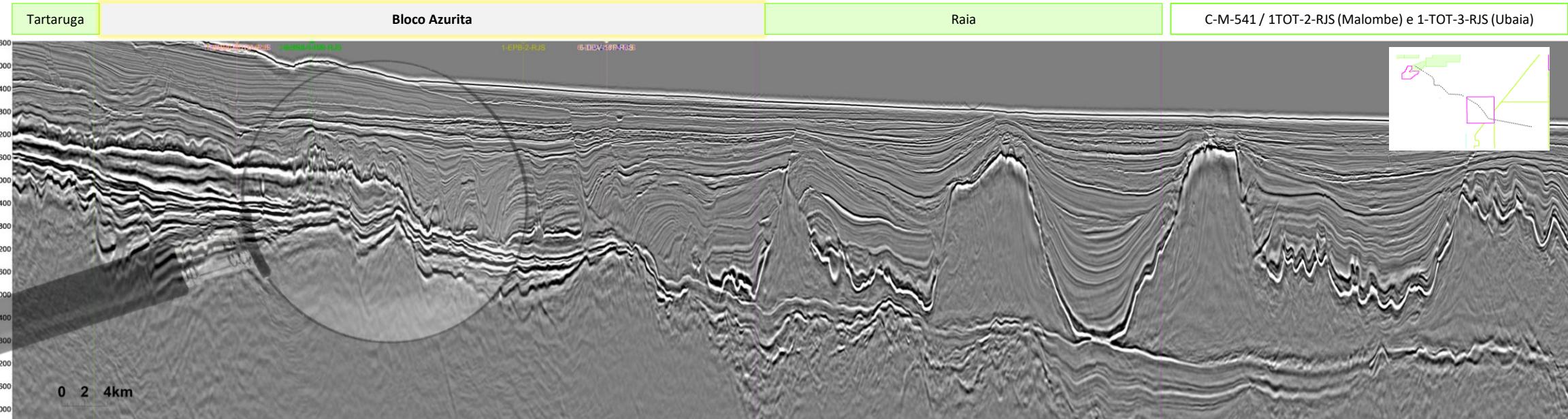


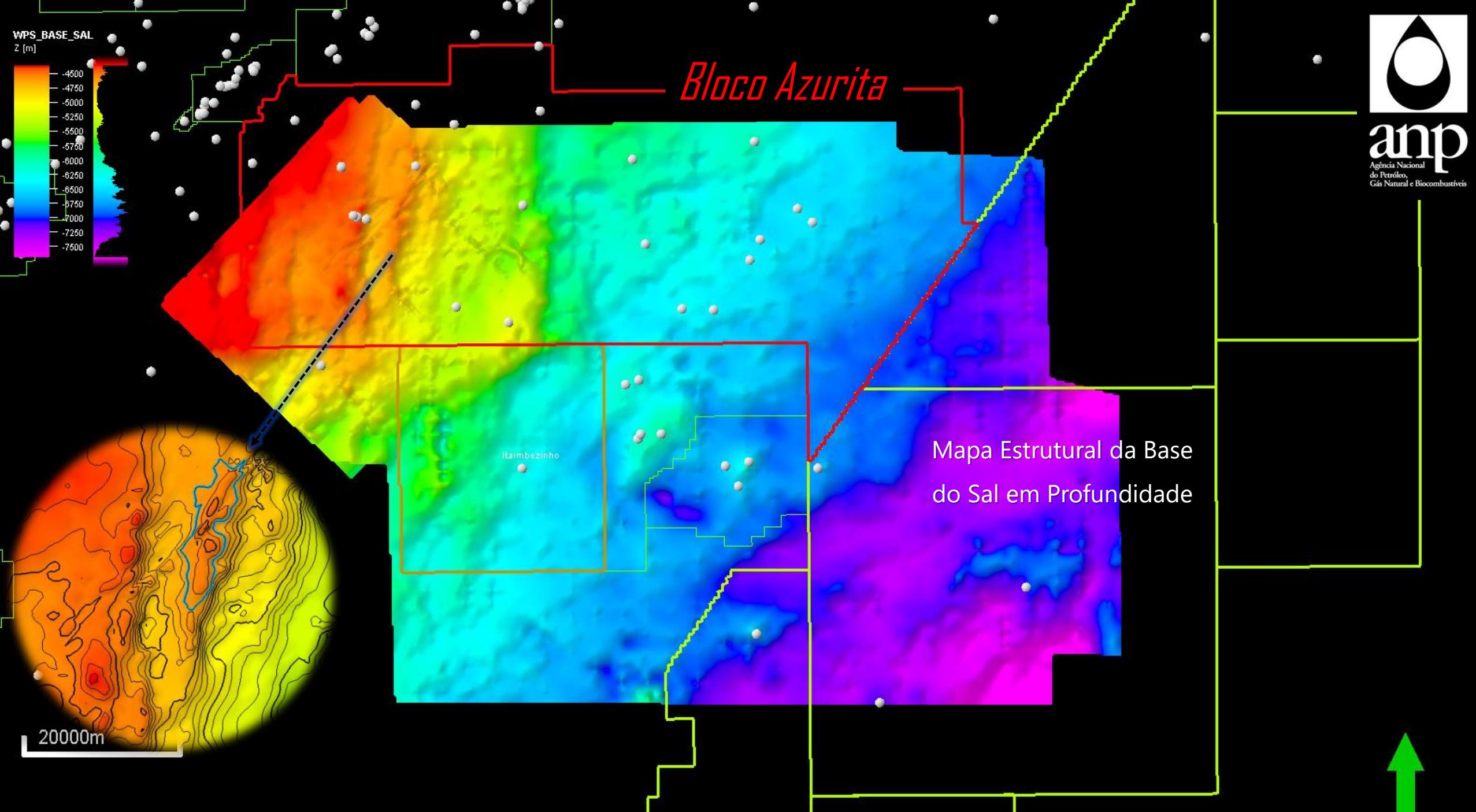
Data Courtesy of TGS
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Bloco Azurita



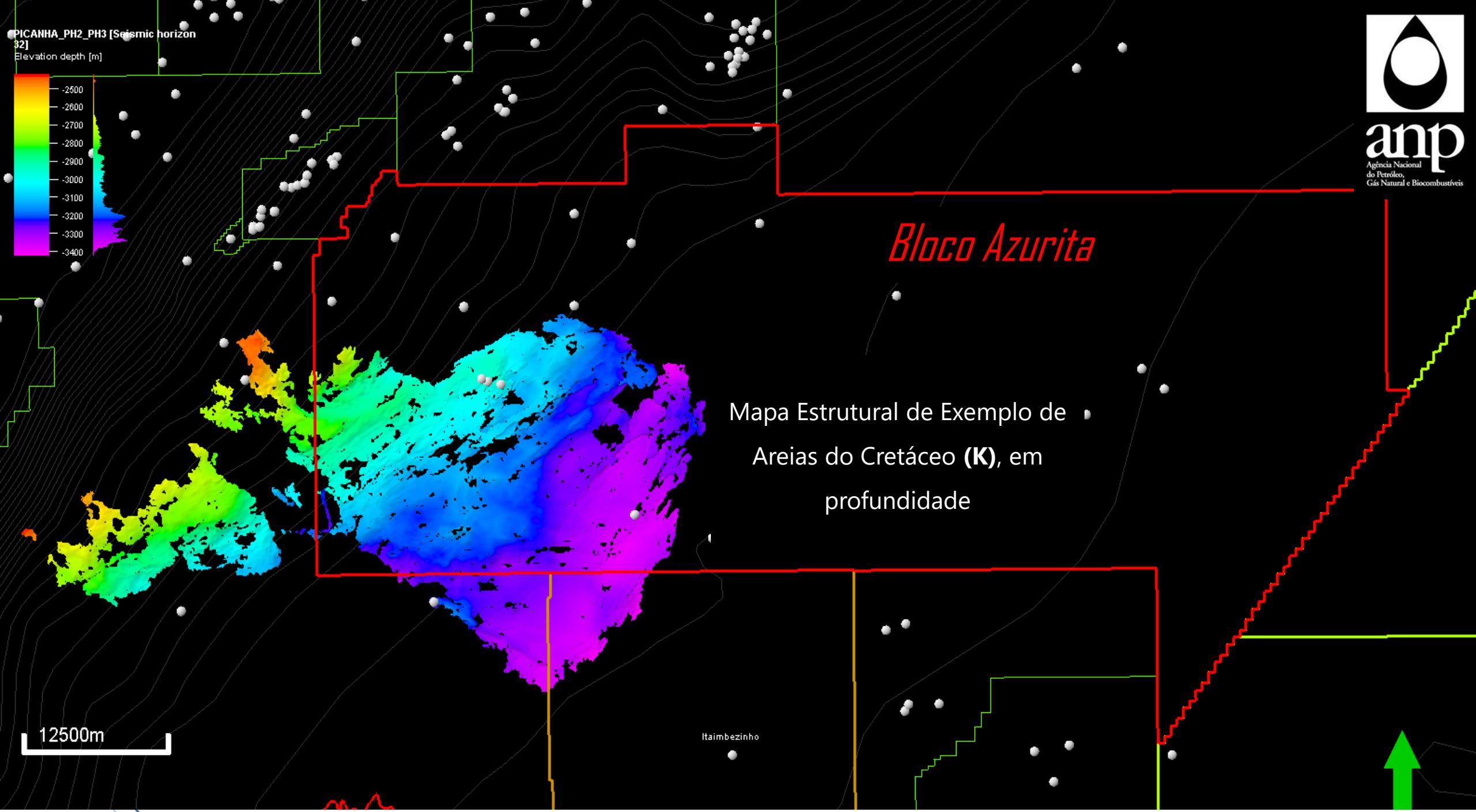
Bloco Azurita



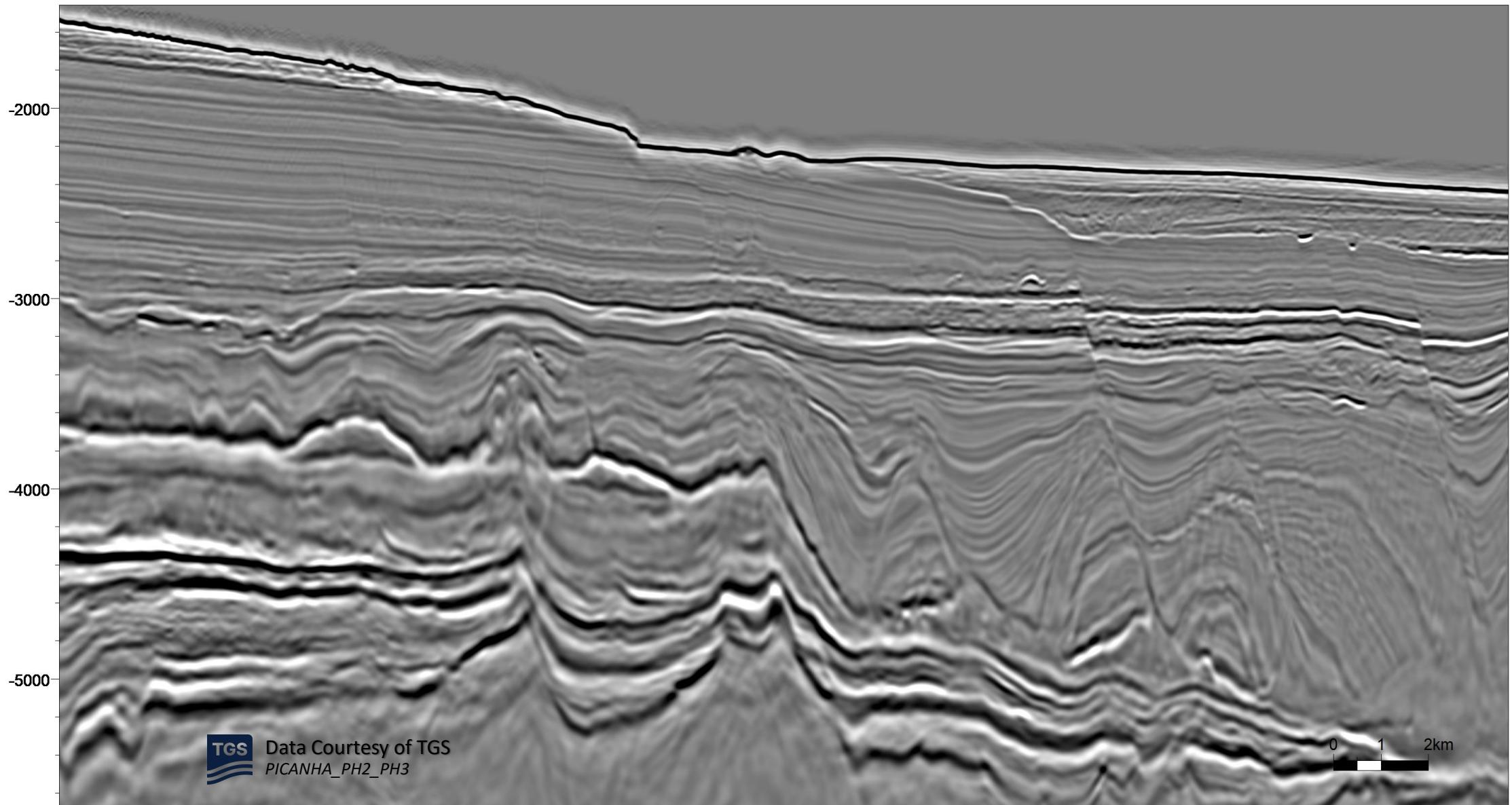




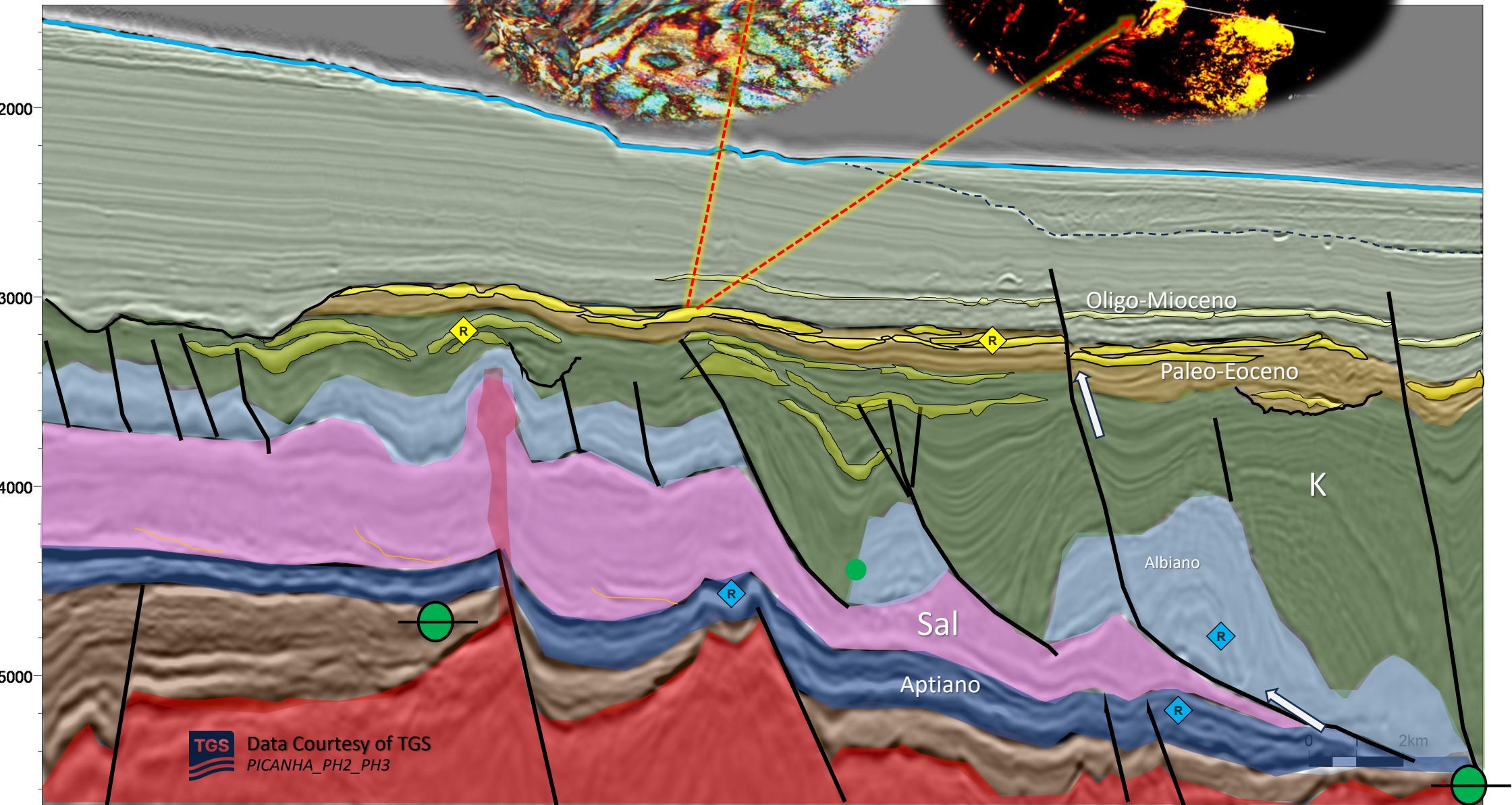
anp
Agência Nacional
do Petróleo,
Gás Natural e Biocombustíveis



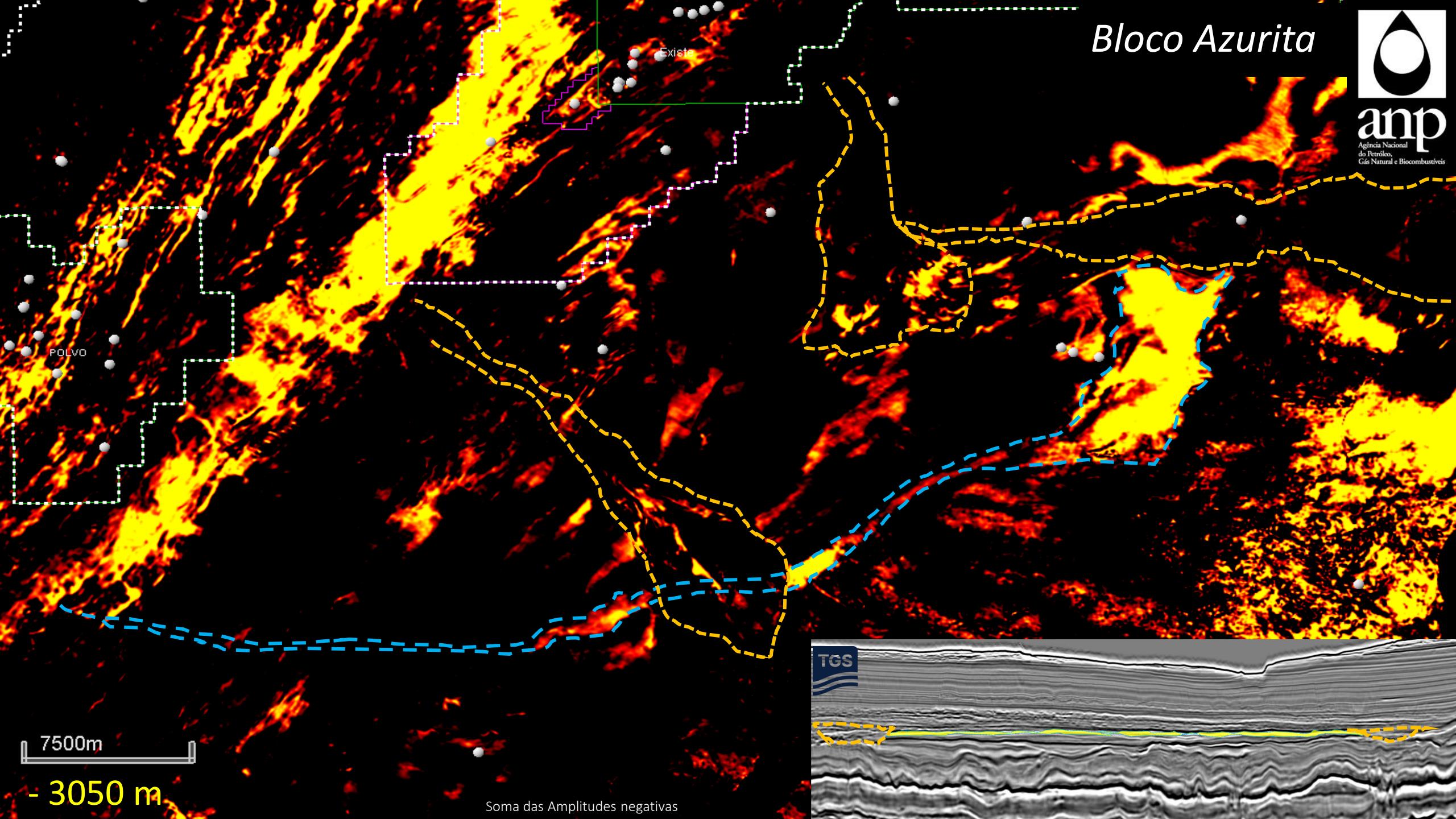
Bloco Azurita



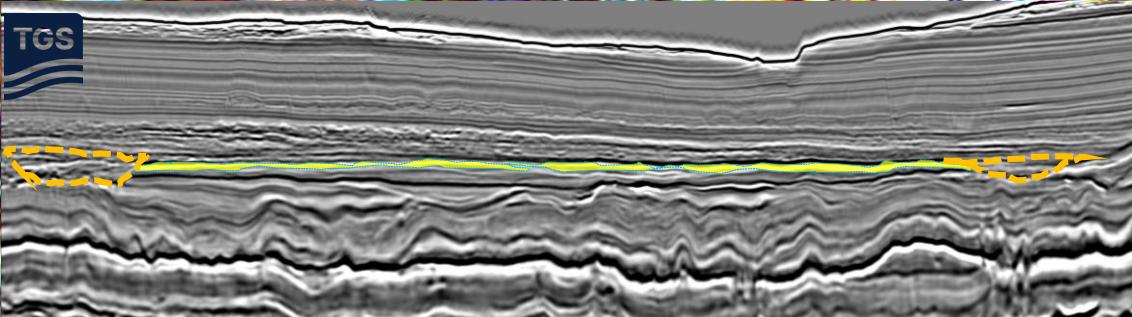
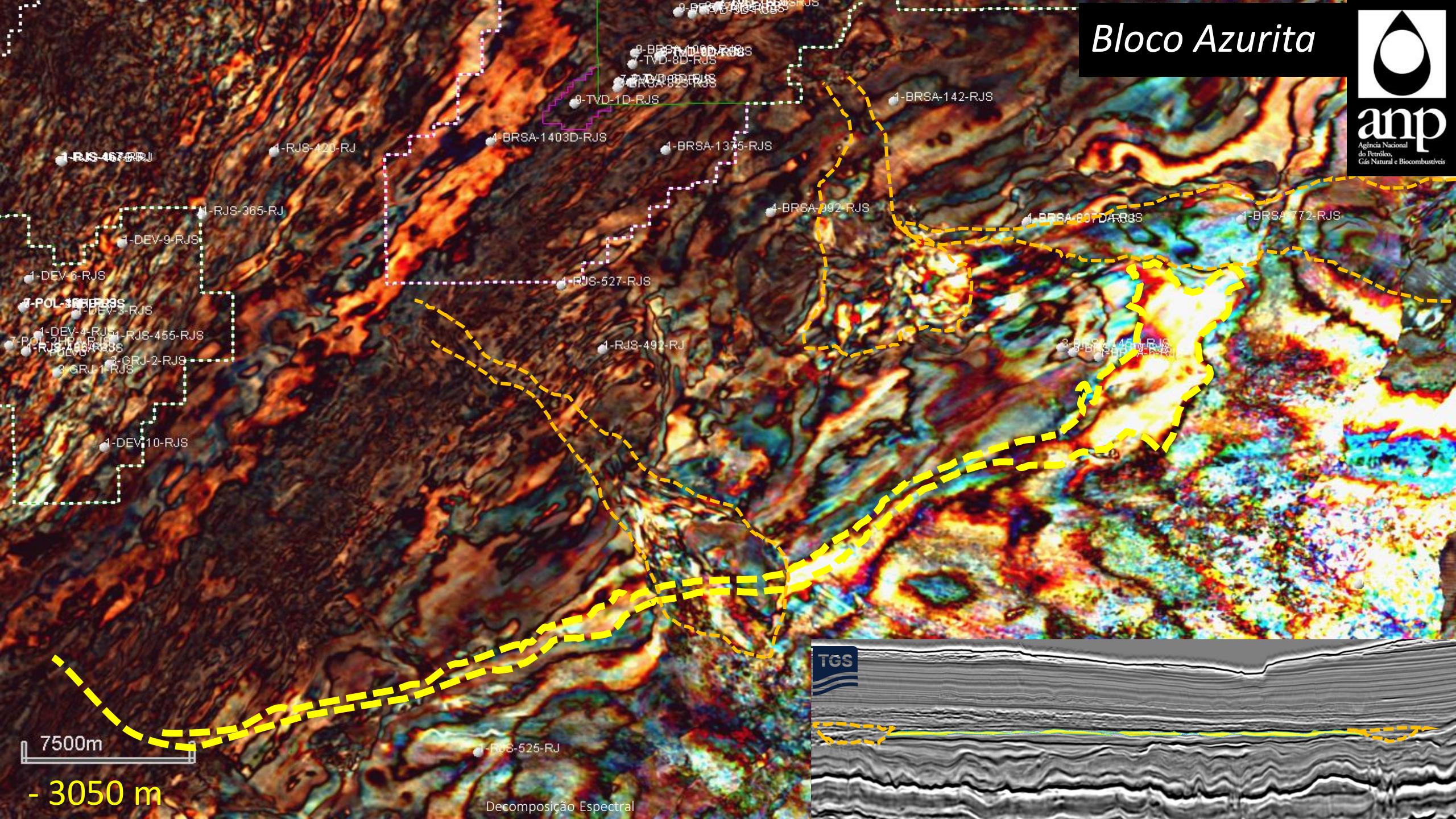
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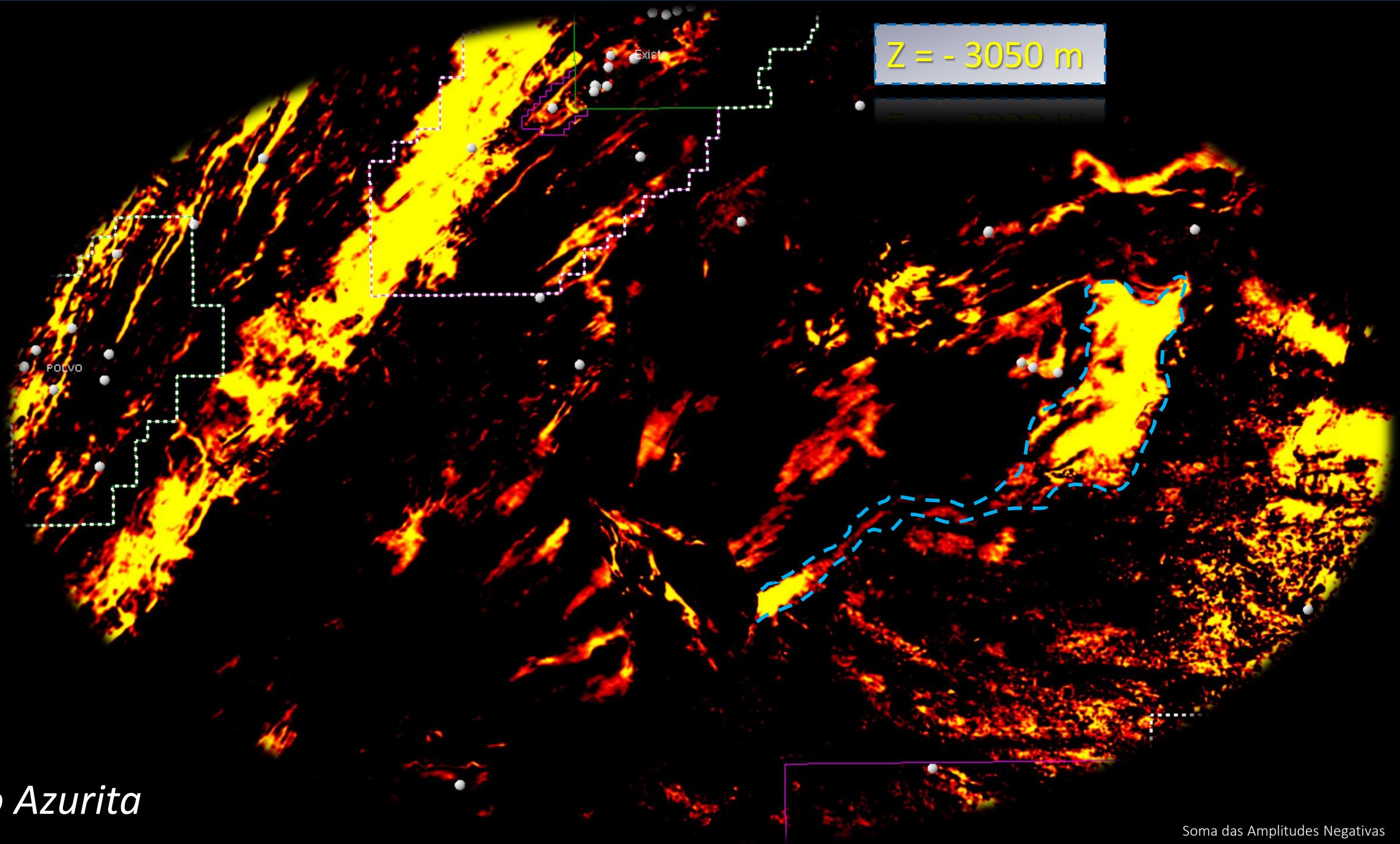


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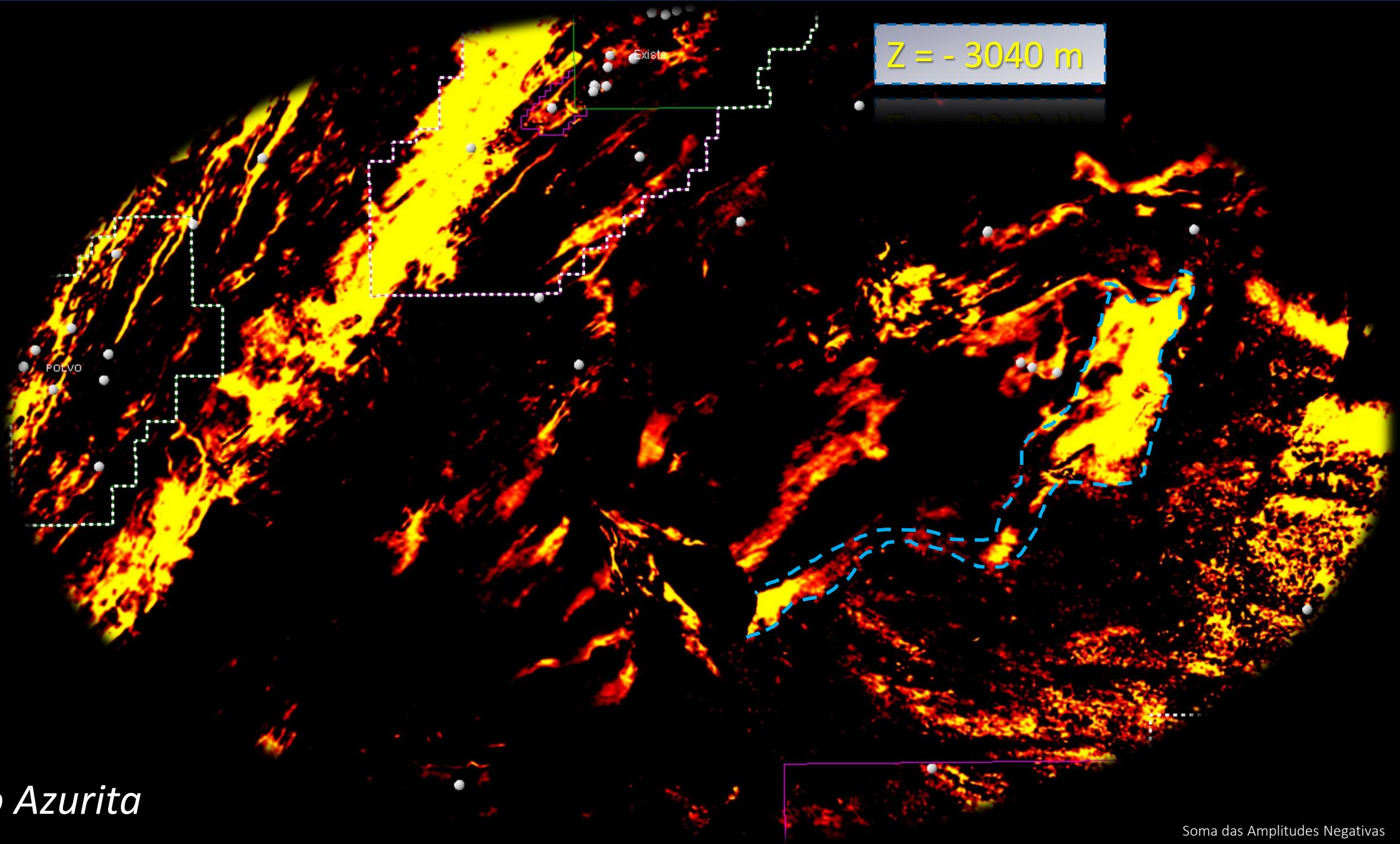
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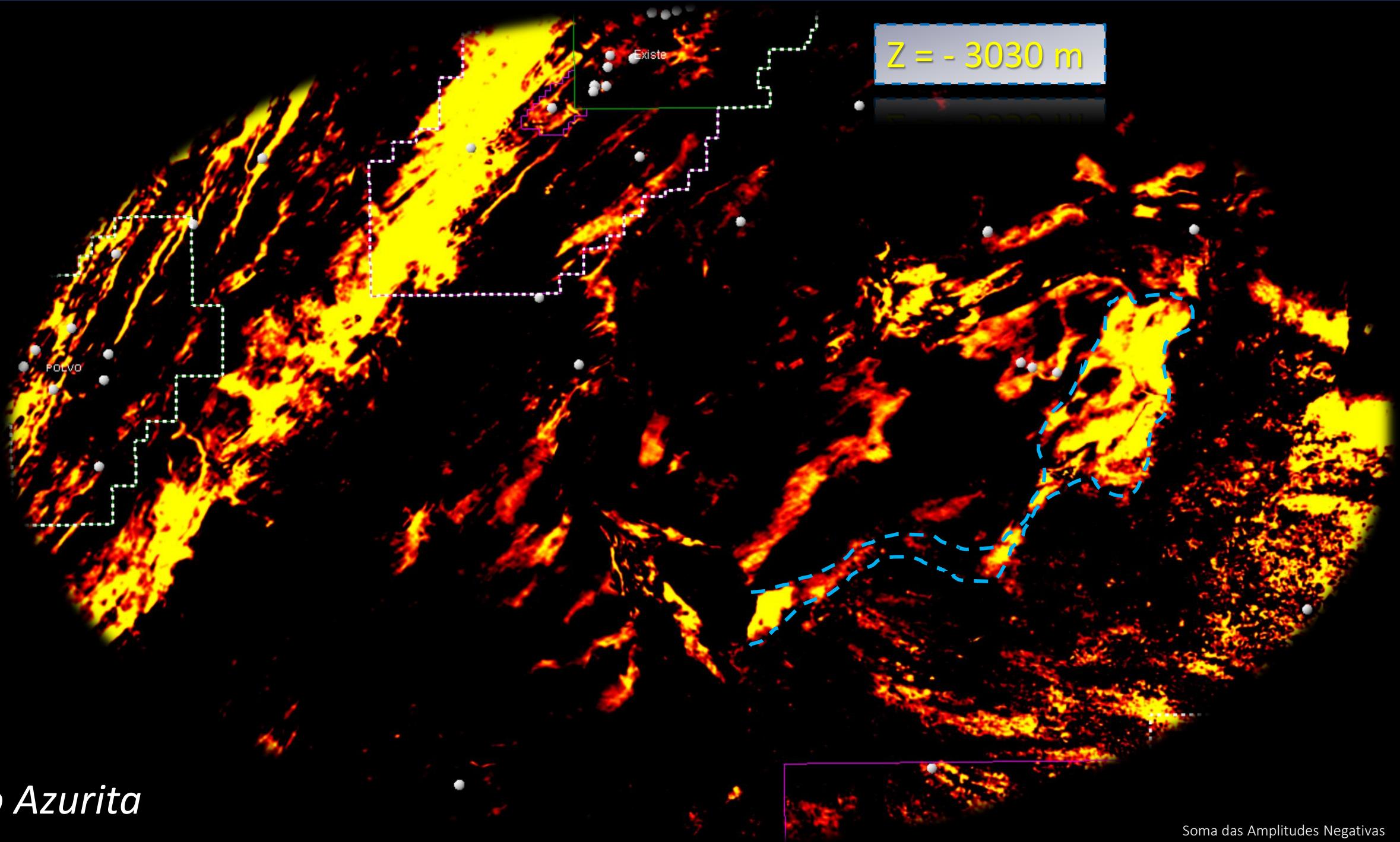




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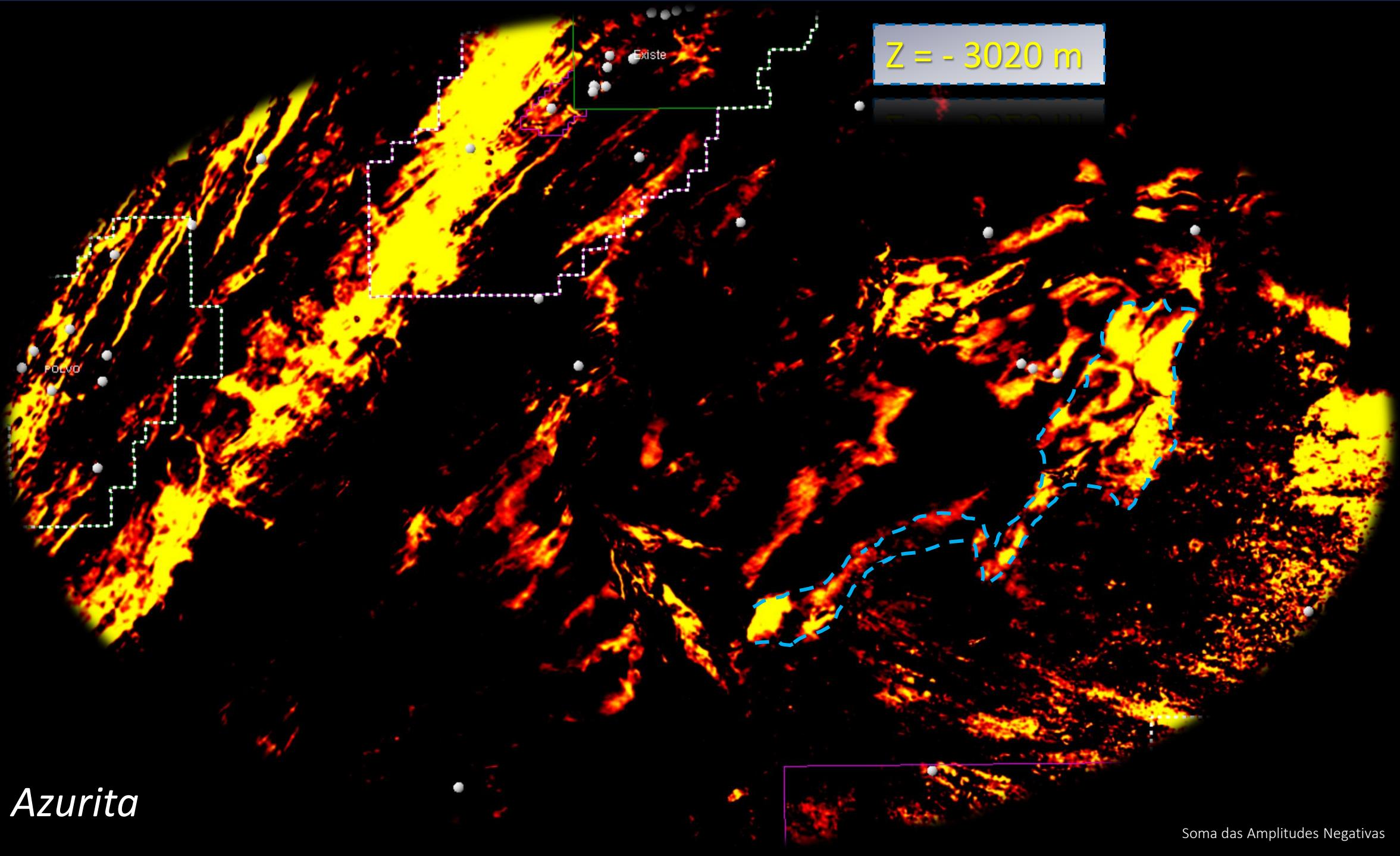
Soma das Amplitudes Negativas

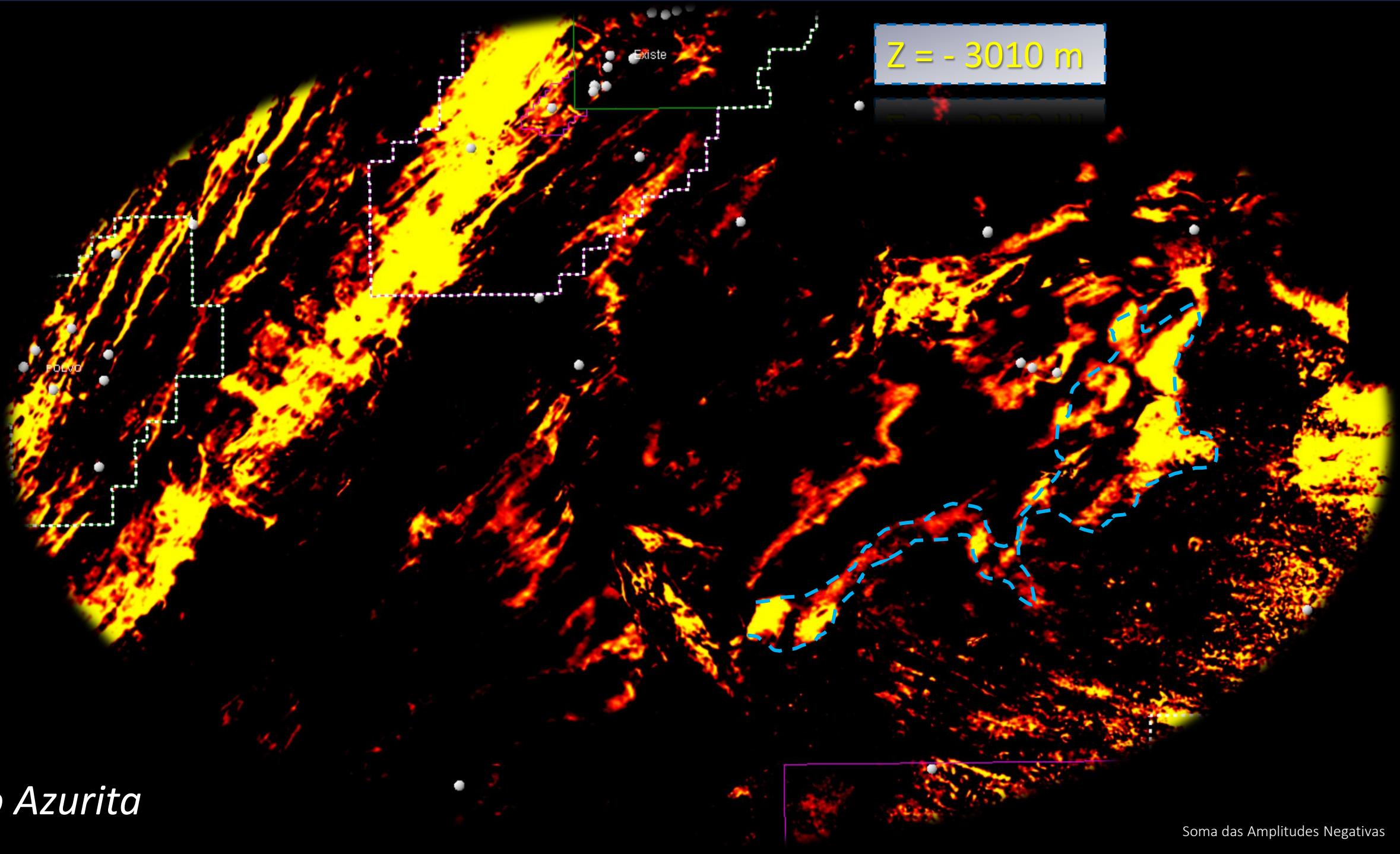




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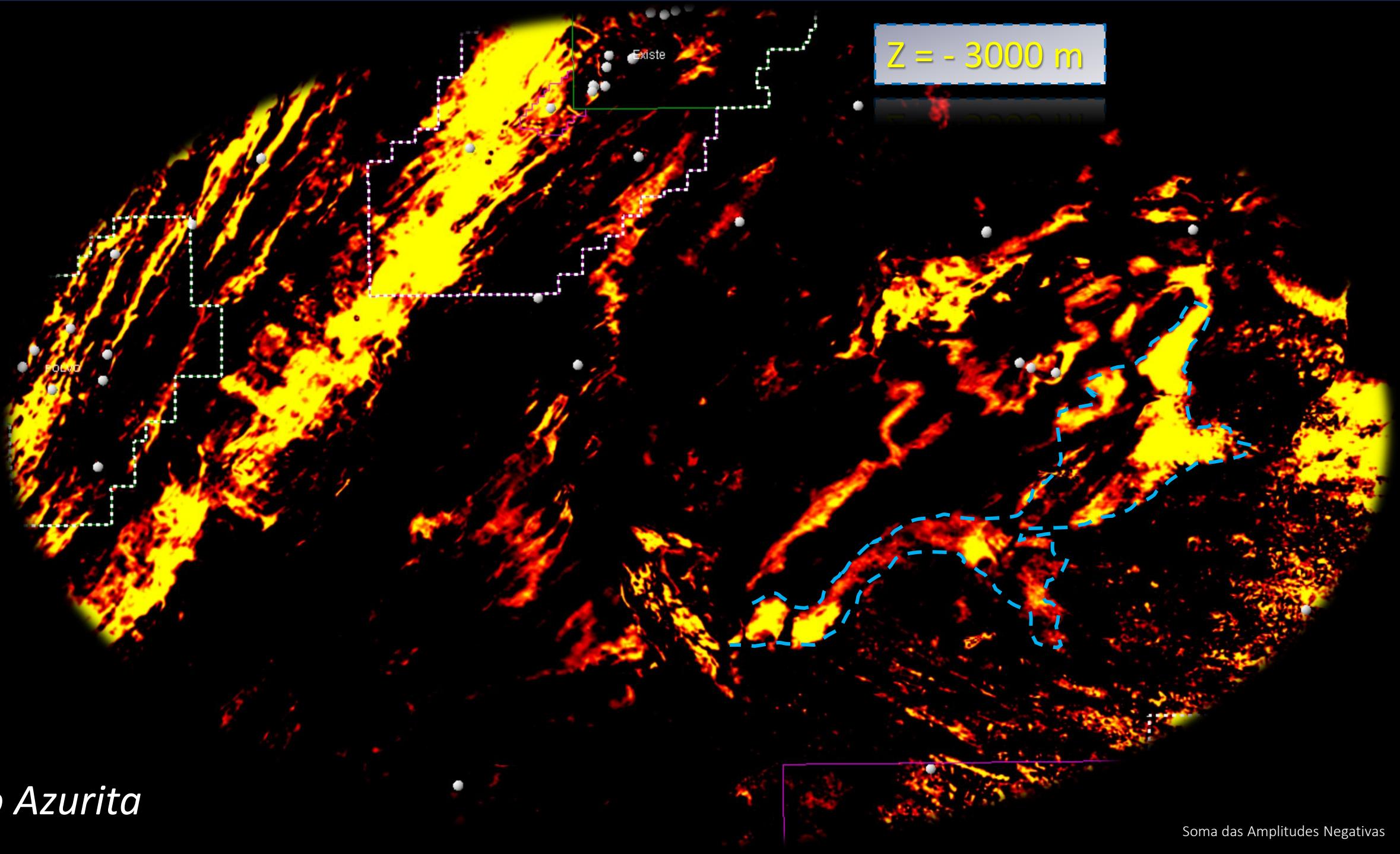
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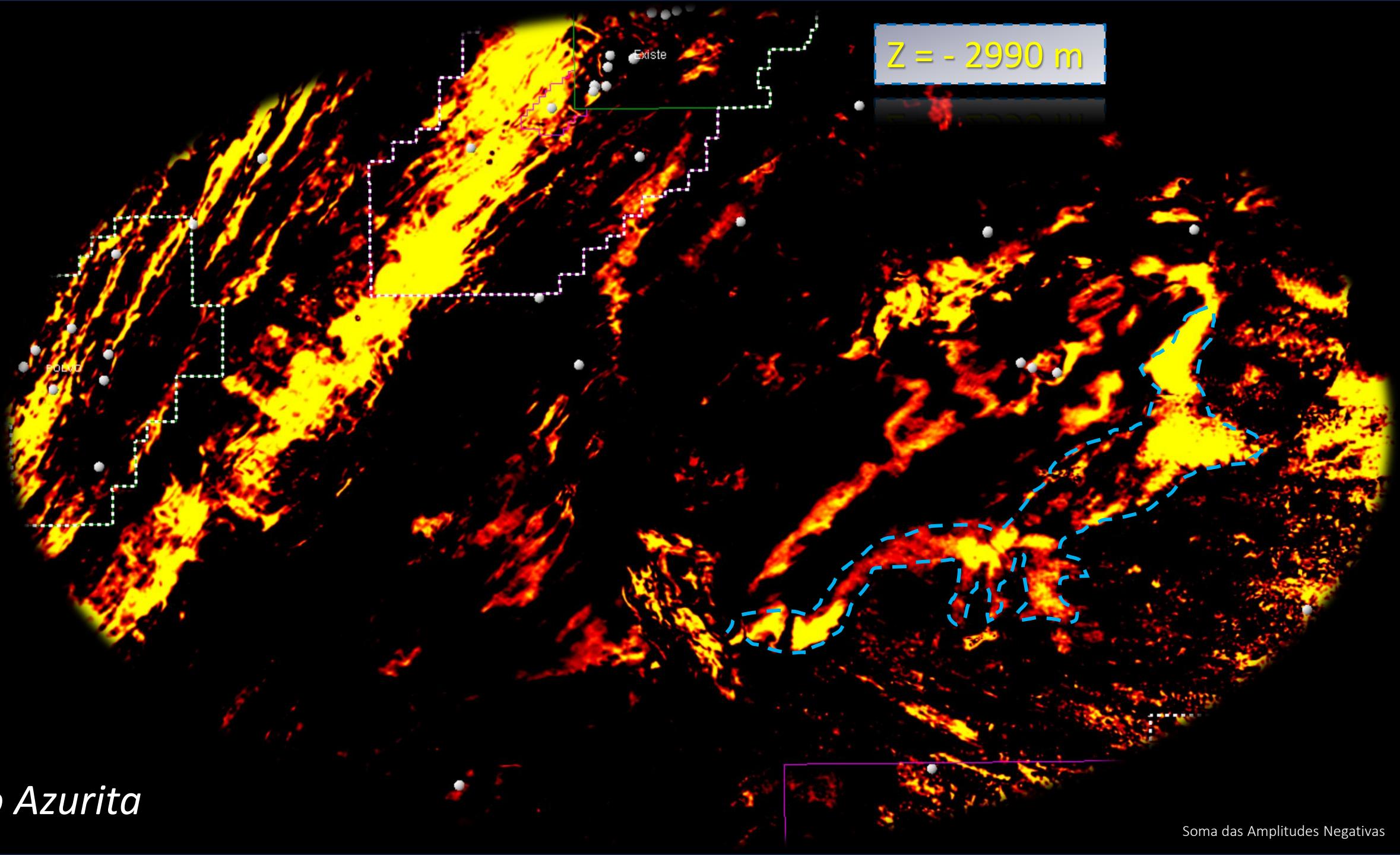


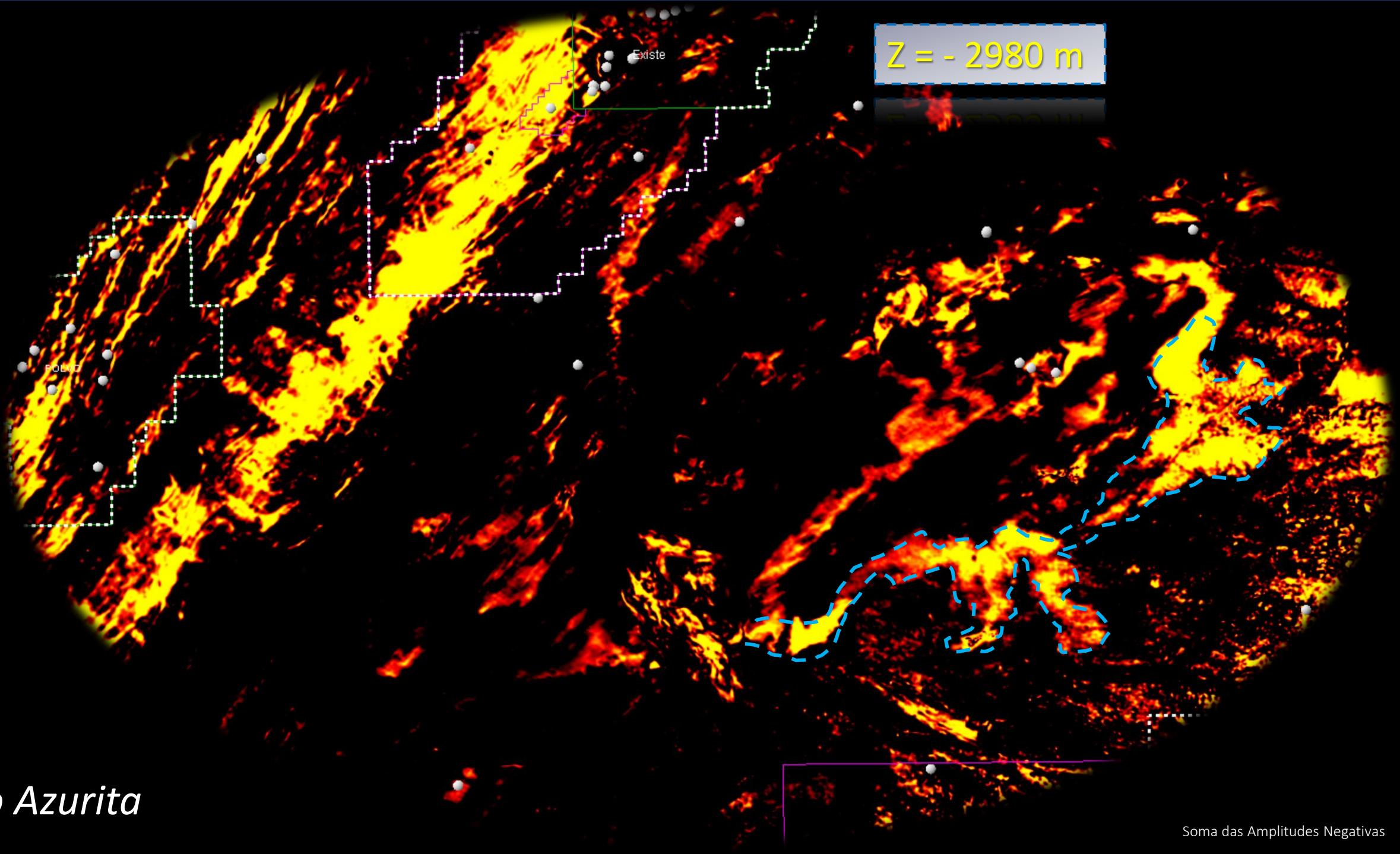


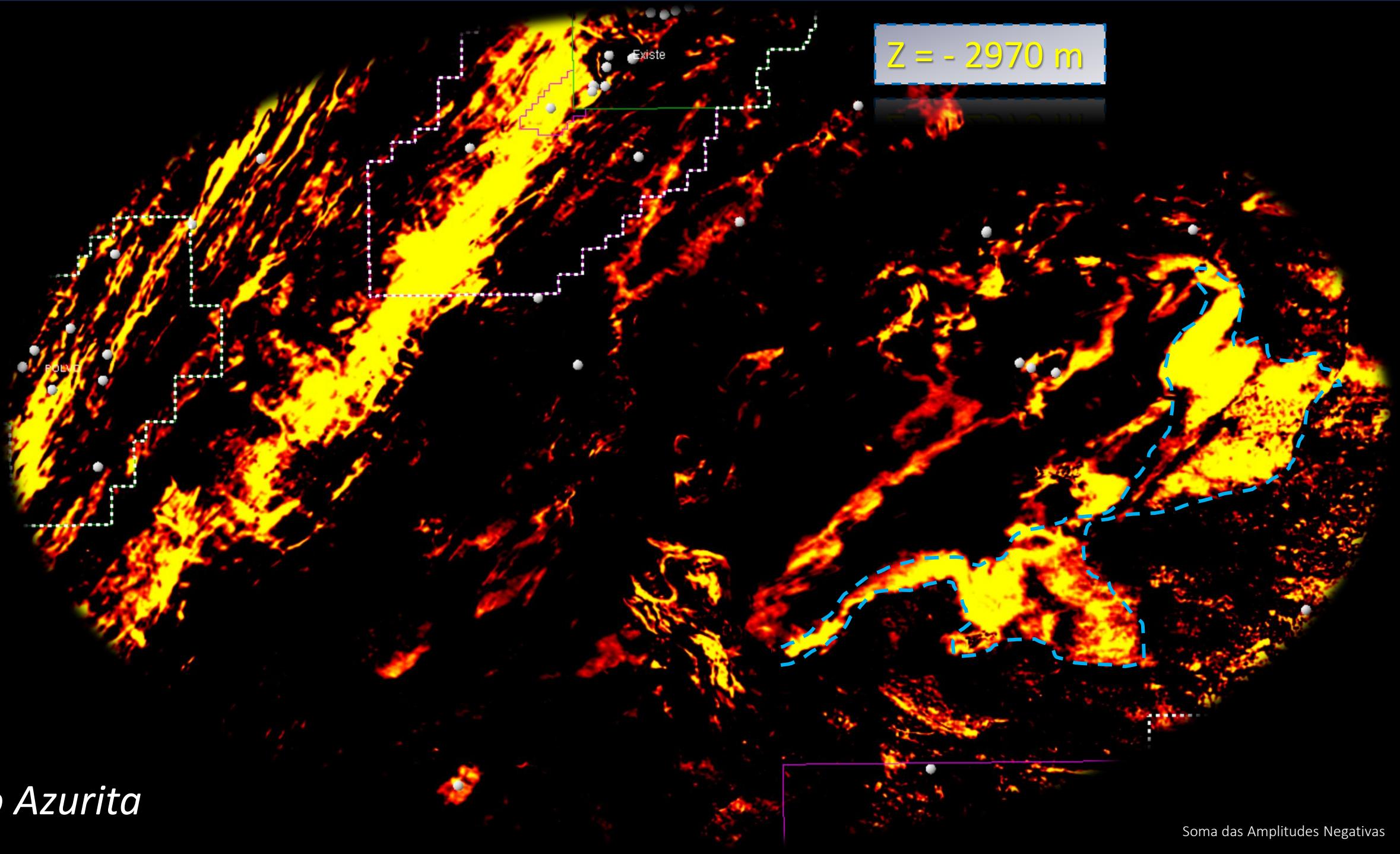
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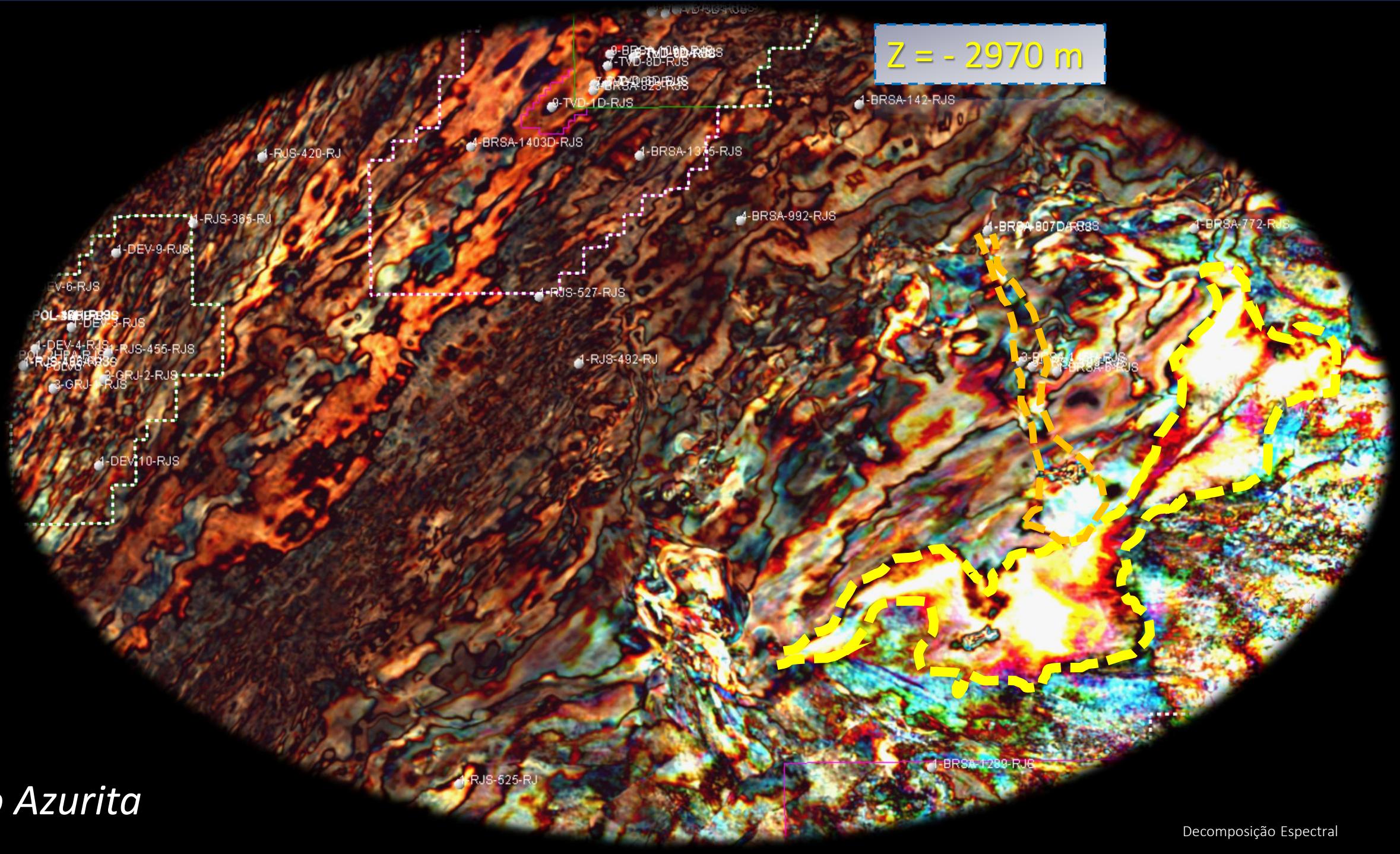
Soma das Amplitudes Negativas



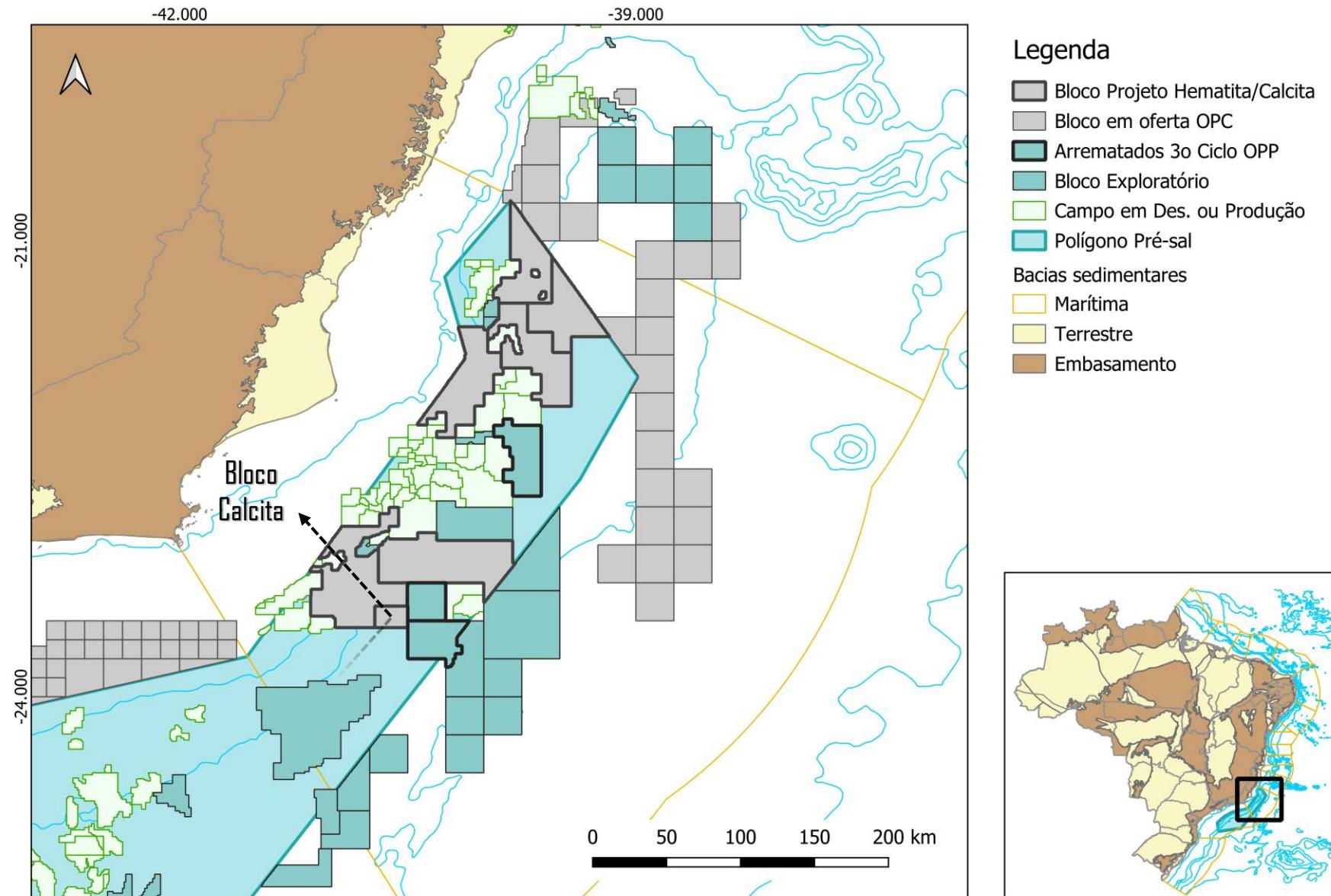








Bloco Calcita



Bloco Calcita

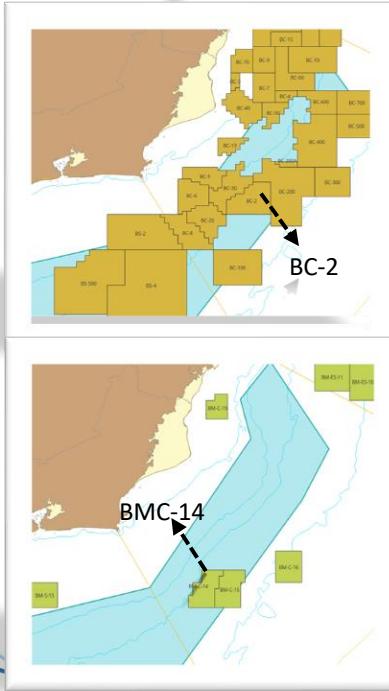
Antigos blocos BC-2 (Rodada zero / 1998) e BM-C-14 (3^a Rodada / 2001)

Poço 1-EPB-1-RJS (antigo Curió), WD 2483 m, Res. 3478 m, arenitos santonianos com óleo (17,5°API). Poço 3-BRSA-481-RJS; ø 30%; μ 1700mD, VOIIP recuperável 210 mm bbl.

Poço 9-XRL-1D-RJ (Fm. Carapepus). Poço desviado 6-TOT-1DP-RJS, visou investigar reservatórios Quissamã (pós-sal) e Macabú e Coqueiros (pré-sal), Ø 6%, 24°API, CO₂ 20%, área 30Km².

Devolução à ANP em 2023

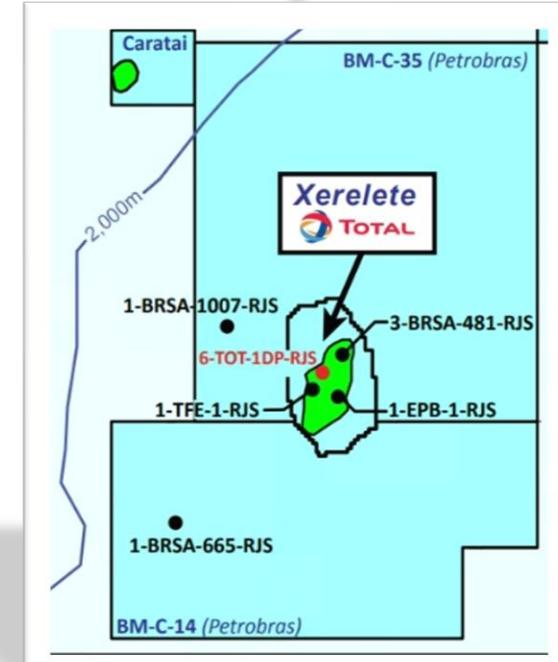
A large, thick black arrow pointing to the right. Along the left side of the arrow, the years '1998- 2001' are written in a bold, black, sans-serif font, oriented vertically.



2002-2007



2008-2014

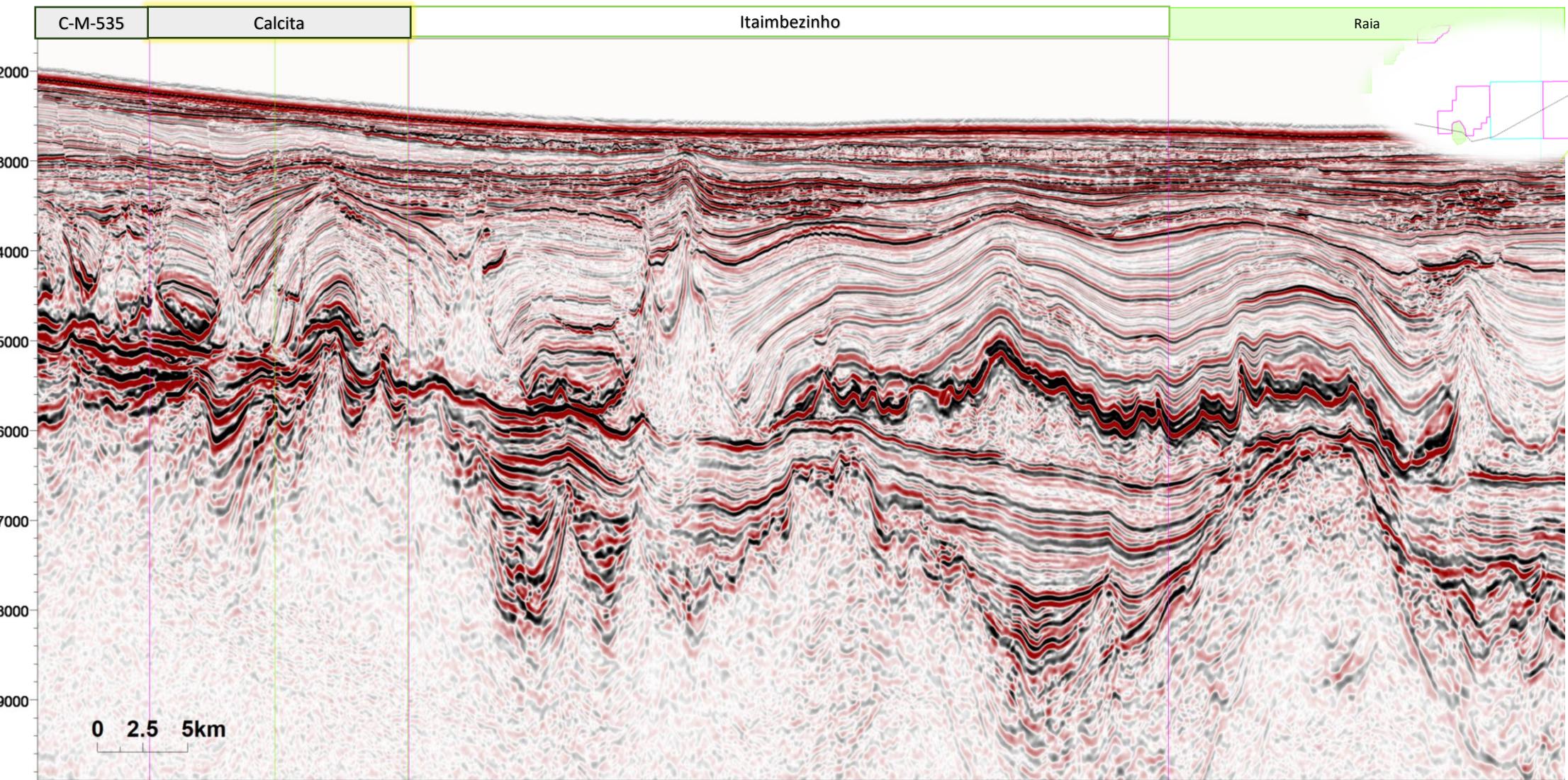


2024 incluído no Calendário Geoeconômico da ANP, no âmbito da OPP.

Resolução CNPE nº 19 (1º de outubro de 2025).

Seminário Técnico da Superintendência de Avaliação Geológica e Econômica: **27/out/2025**

Bloco Calcita



Bloco Calcita

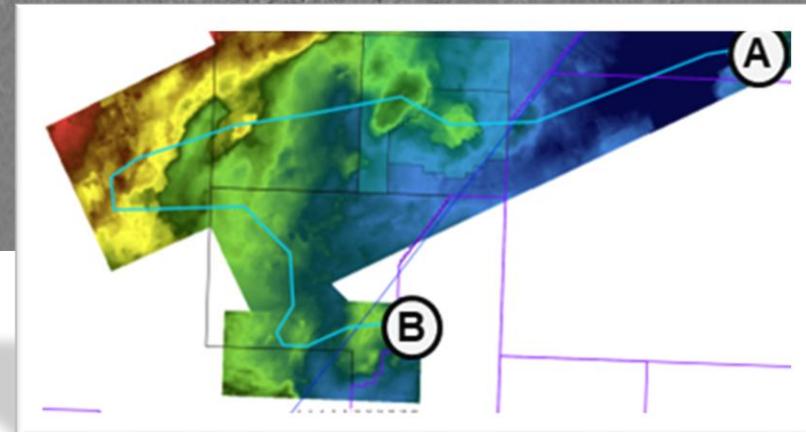
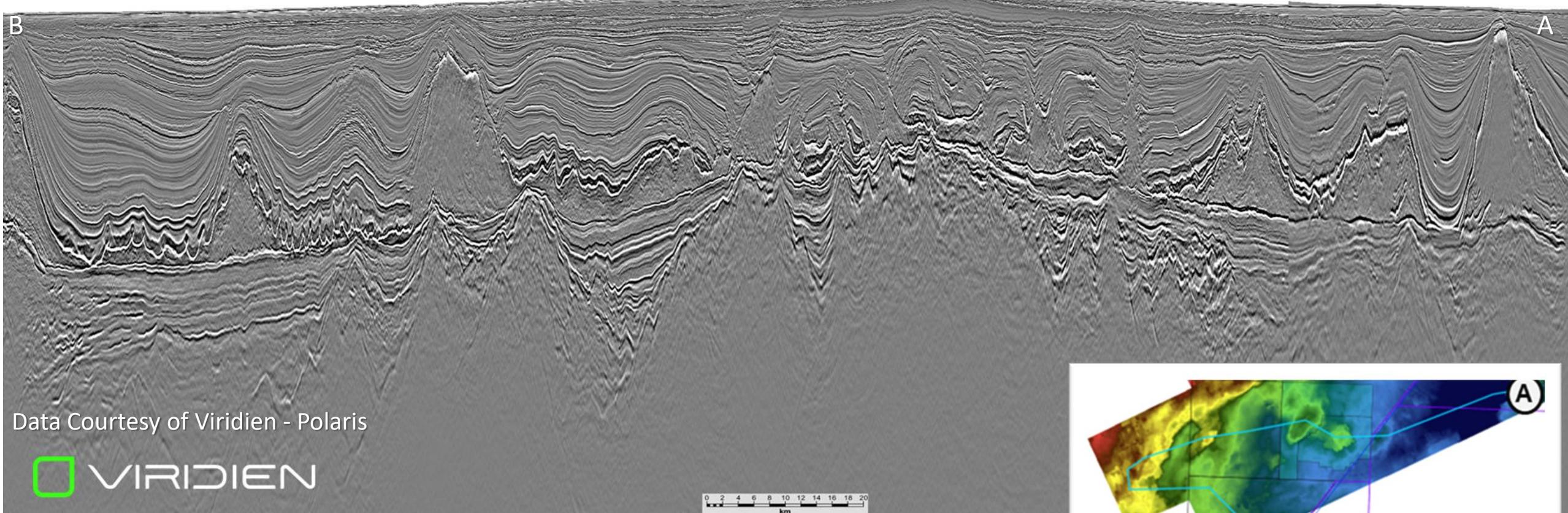
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RAIA

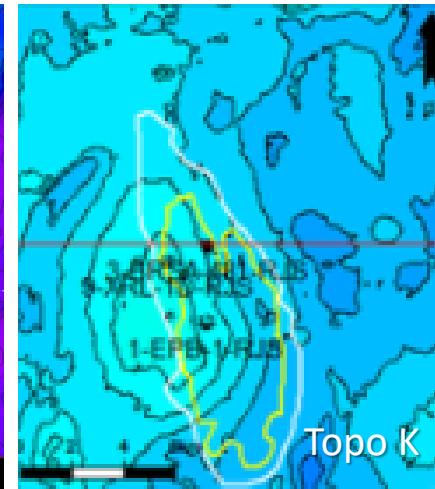
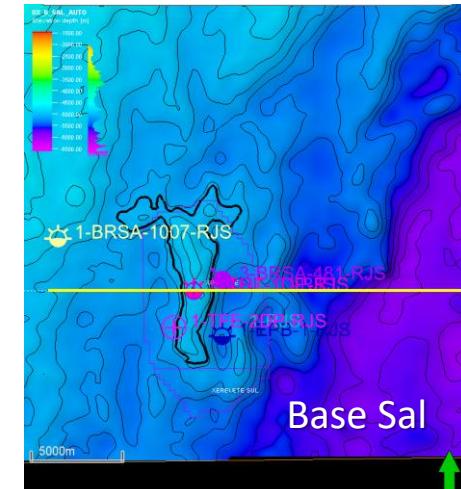
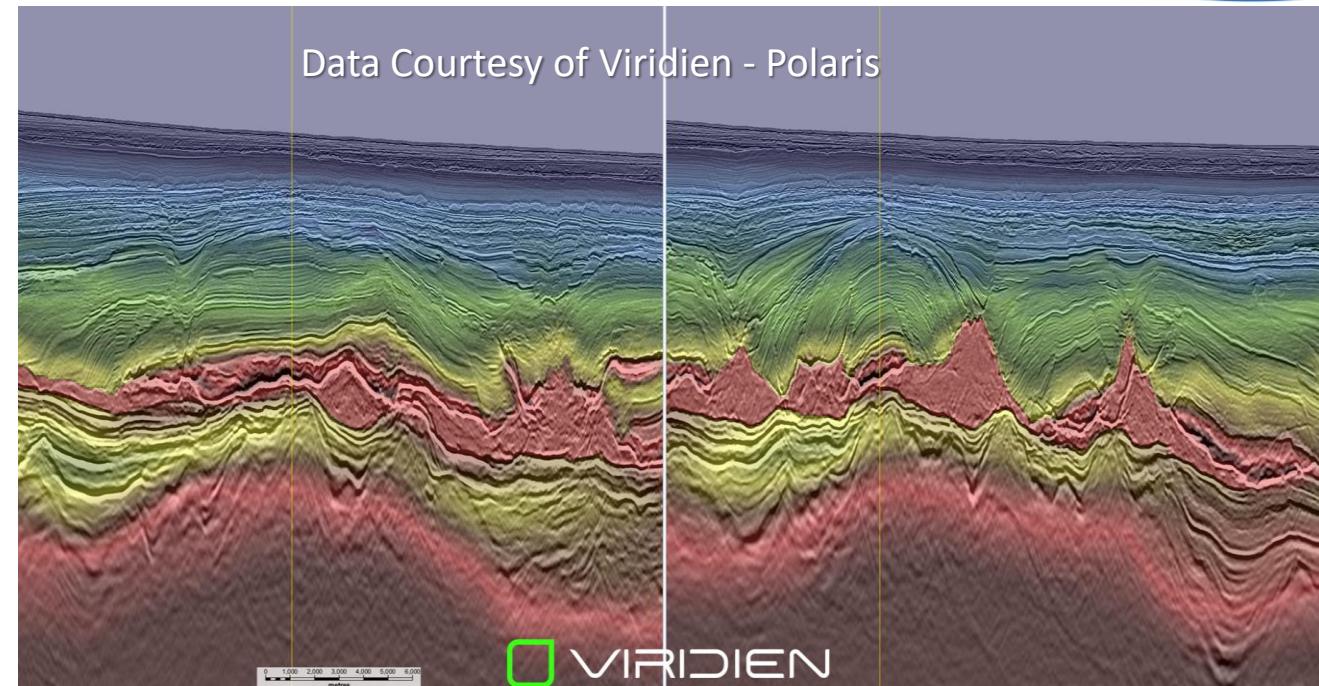
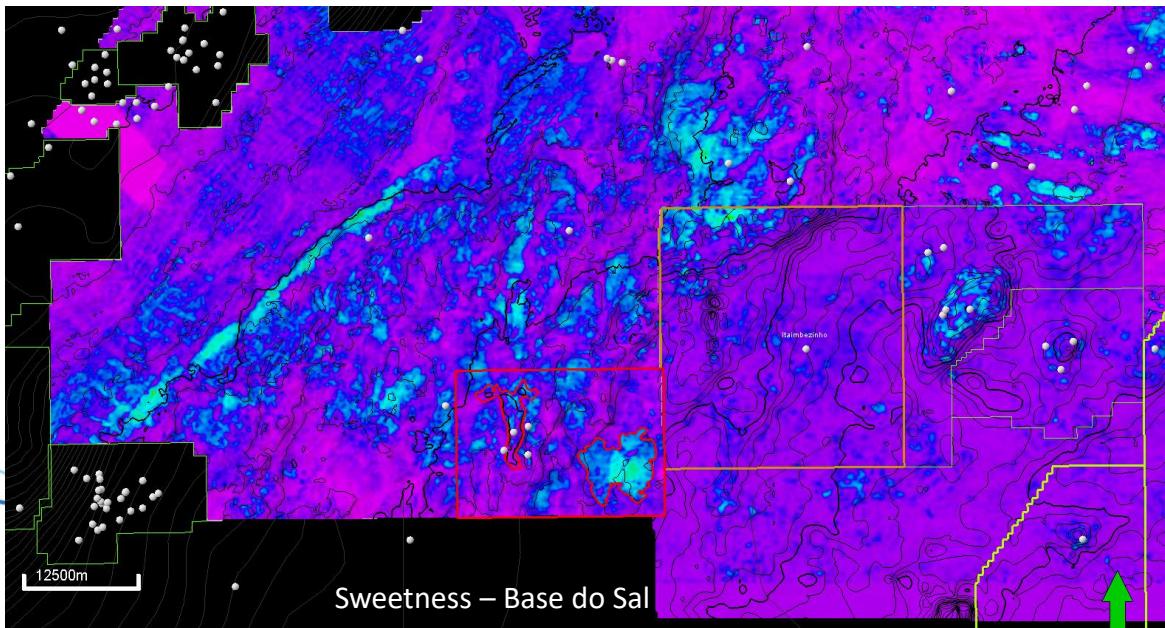
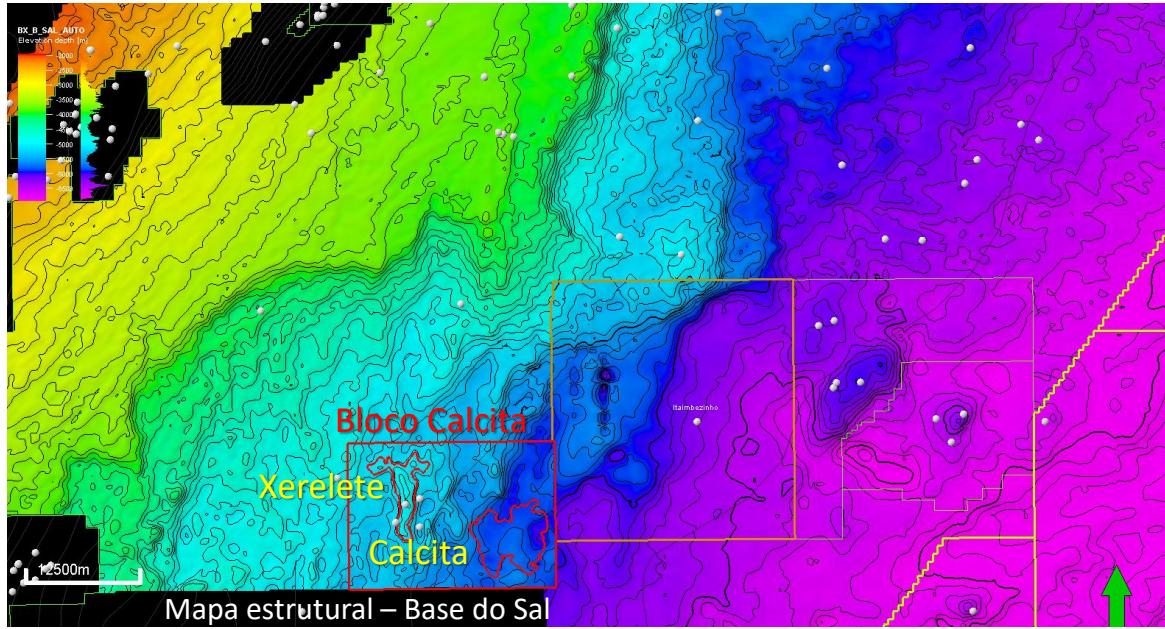
ITAIMBEZINHO

BLOCO CALCITA

JASPE



Bloco Calcita



Os estudos resultaram na indicação de 4 blocos

Projeto Calcita (3 Blocos)

Azurita, Calcita e Dolomita

Resolução CNPE nº 19 (out/2025)

<https://www.gov.br/mme/pt-br/assuntos/conselhos-e-comites/cnpe/resolucoes-do-cnpe/2025/resolucao-19.pdf>

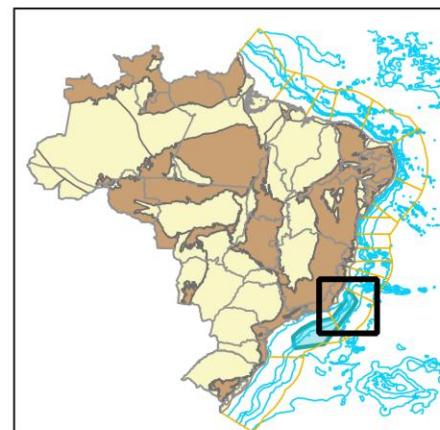
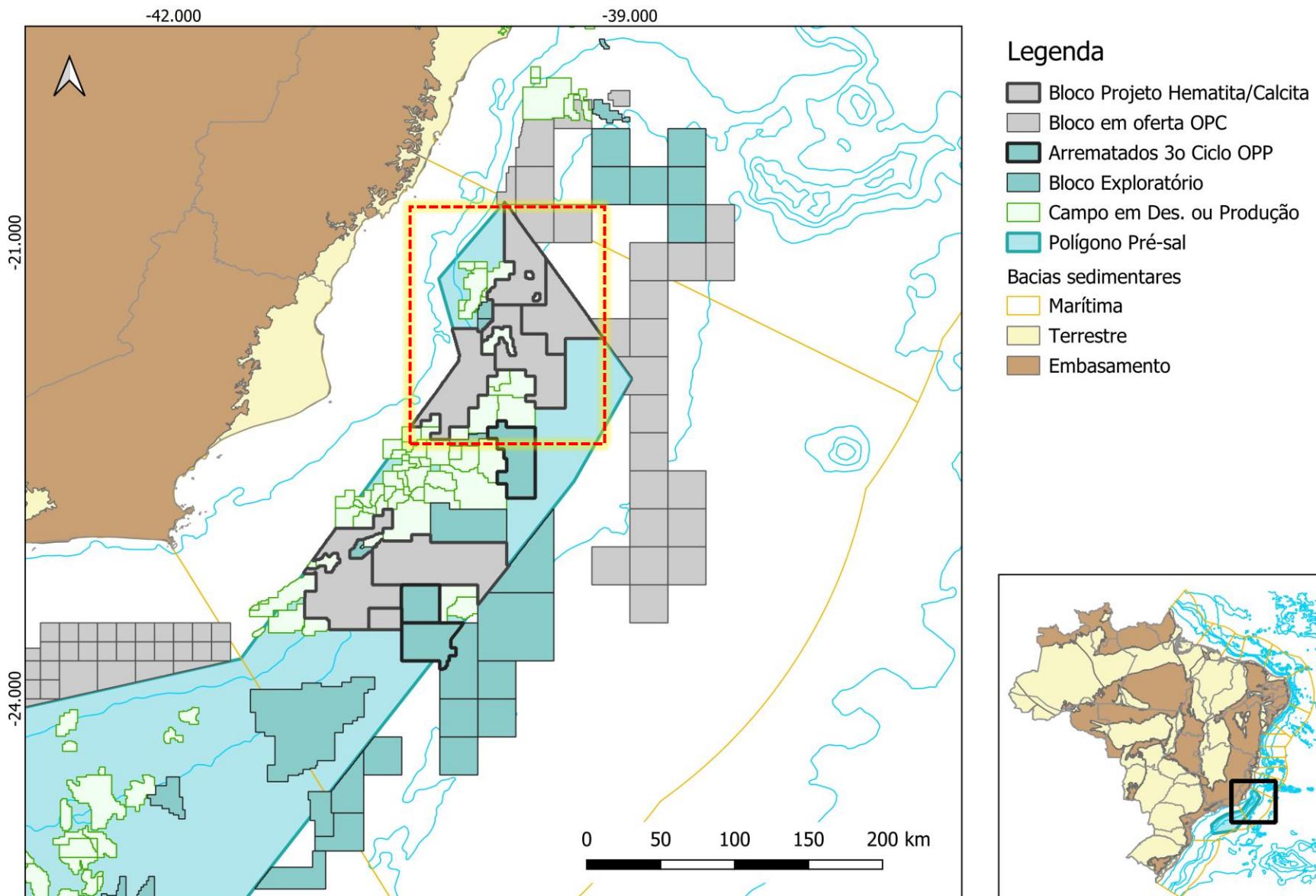
Projeto Hematita (4 Blocos)

Hematita, Limonita,

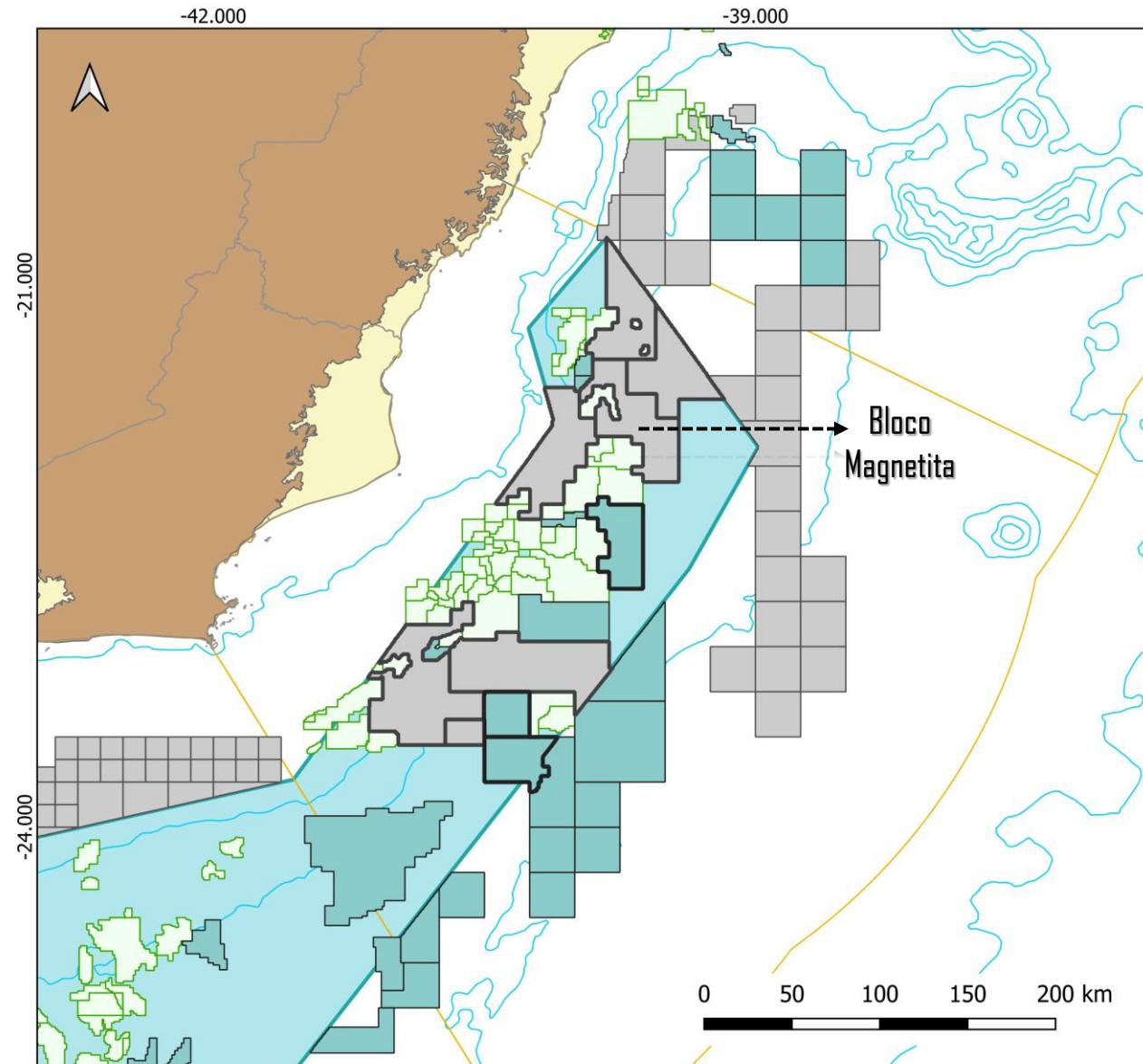
Magnetita e Siderita

Resolução CNPE nº 3 (fev/2025)

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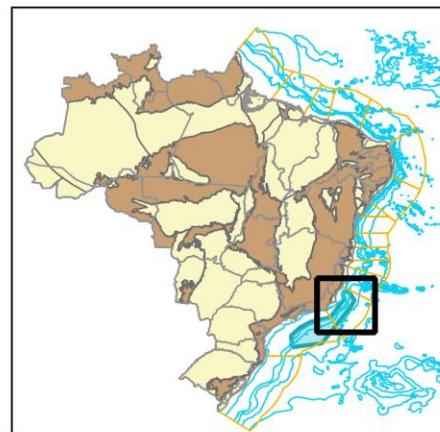


Bloco Magnetita



Legenda

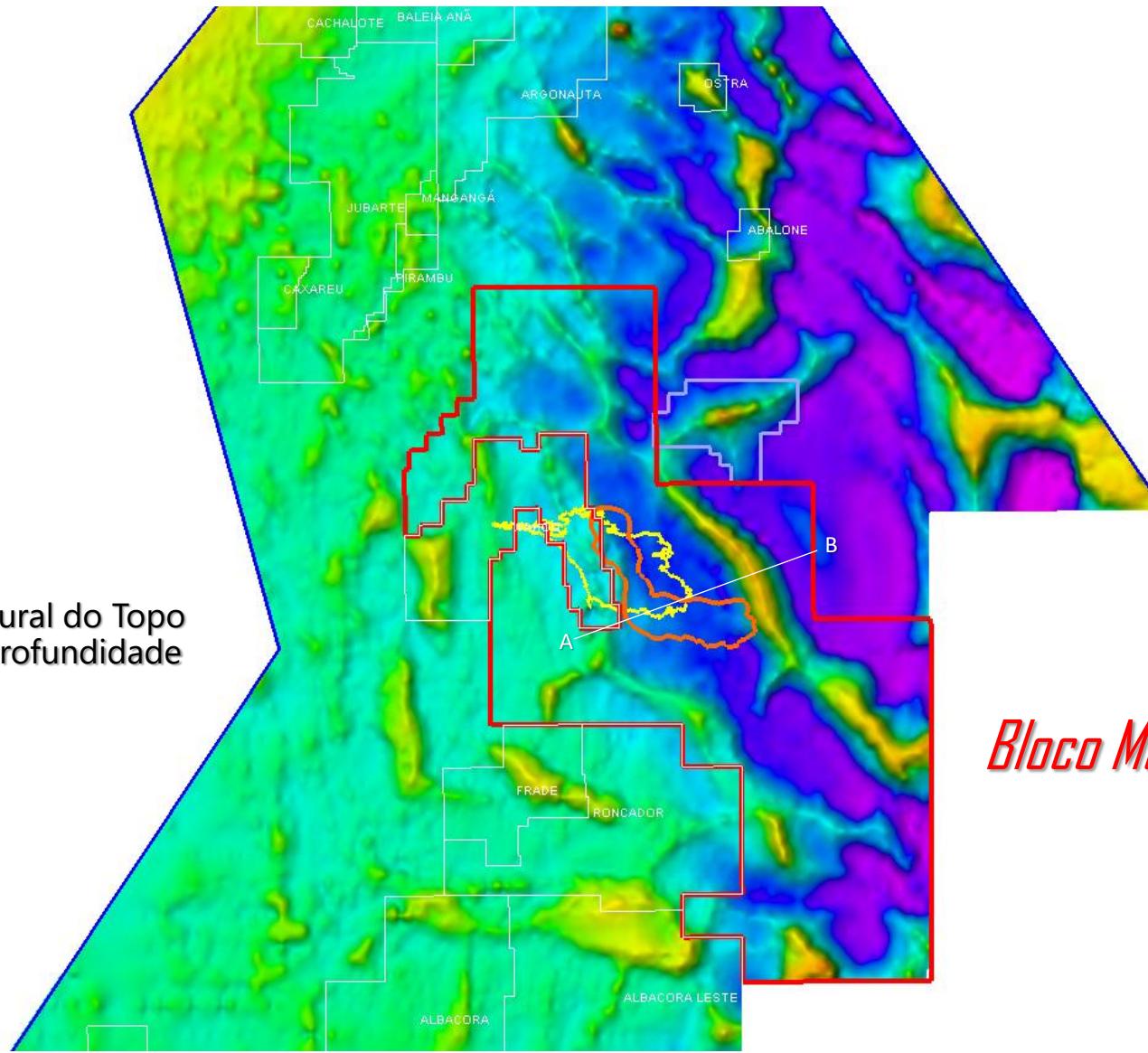
- Bloco Projeto Hematita/Calcita
 - Bloco em oferta OPC
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 - Bloco Exploratório
 - Campo em Des. ou Produção
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- Bacias sedimentares**
- Marítima
 - Terrestre
 - Embasamento



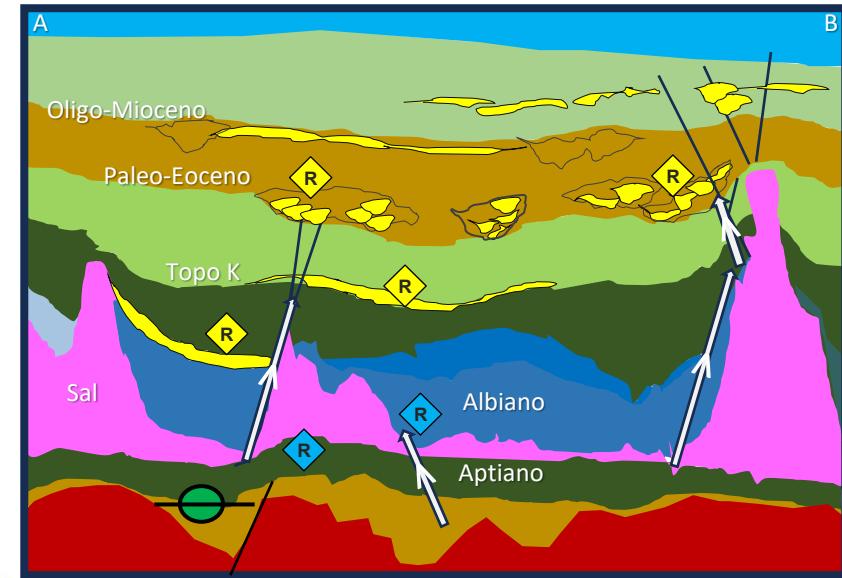
Bloco Magnetita



Mapa Estrutural do Topo
do Sal em Profundidade



Bloco Magnetita

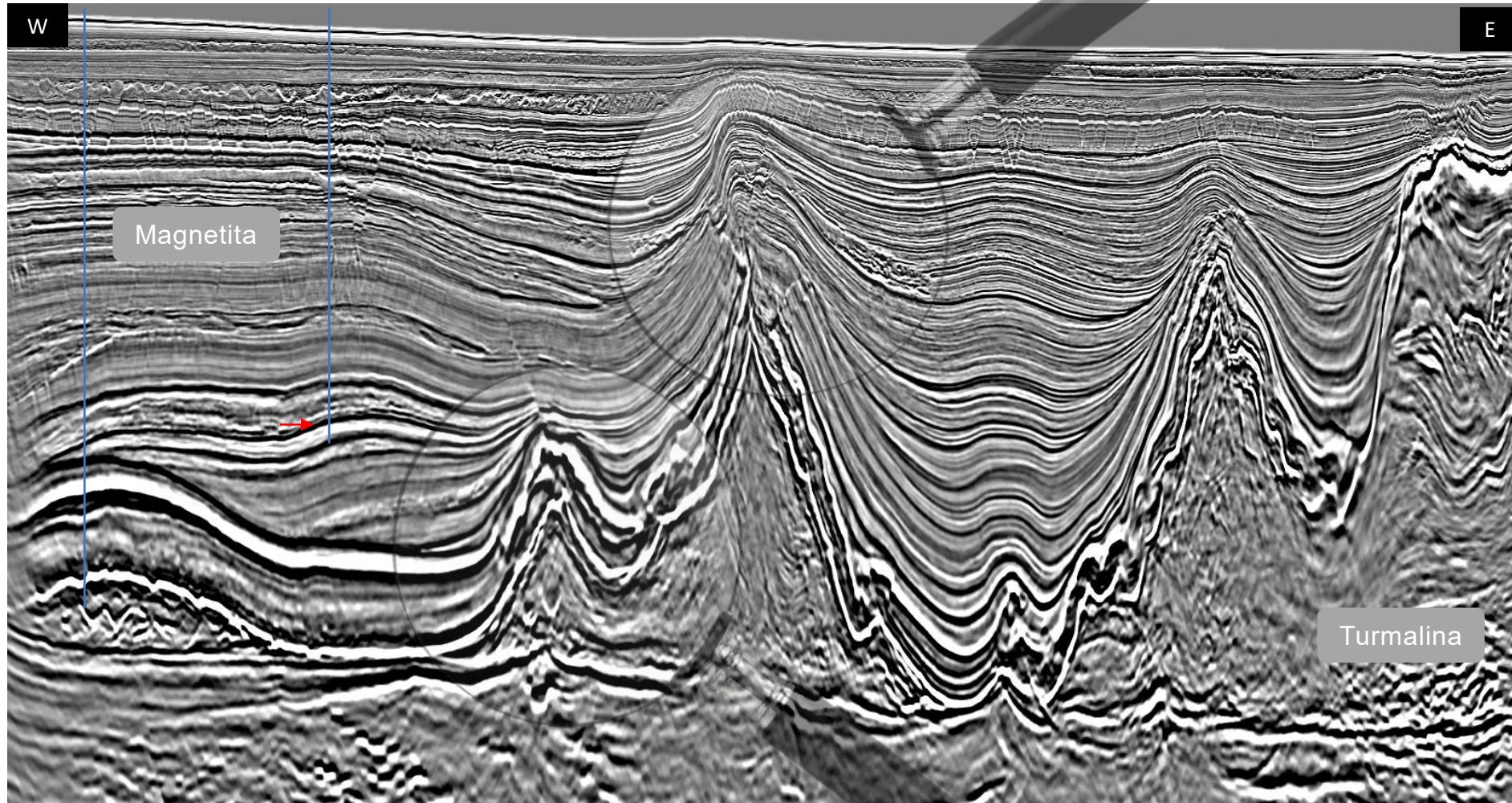


Bloco Magnetita

1BRSA458ESS

1AGIP3ESS

(Petróleo – carbonatos albianos) (Petróleo – arenitos turonianos)

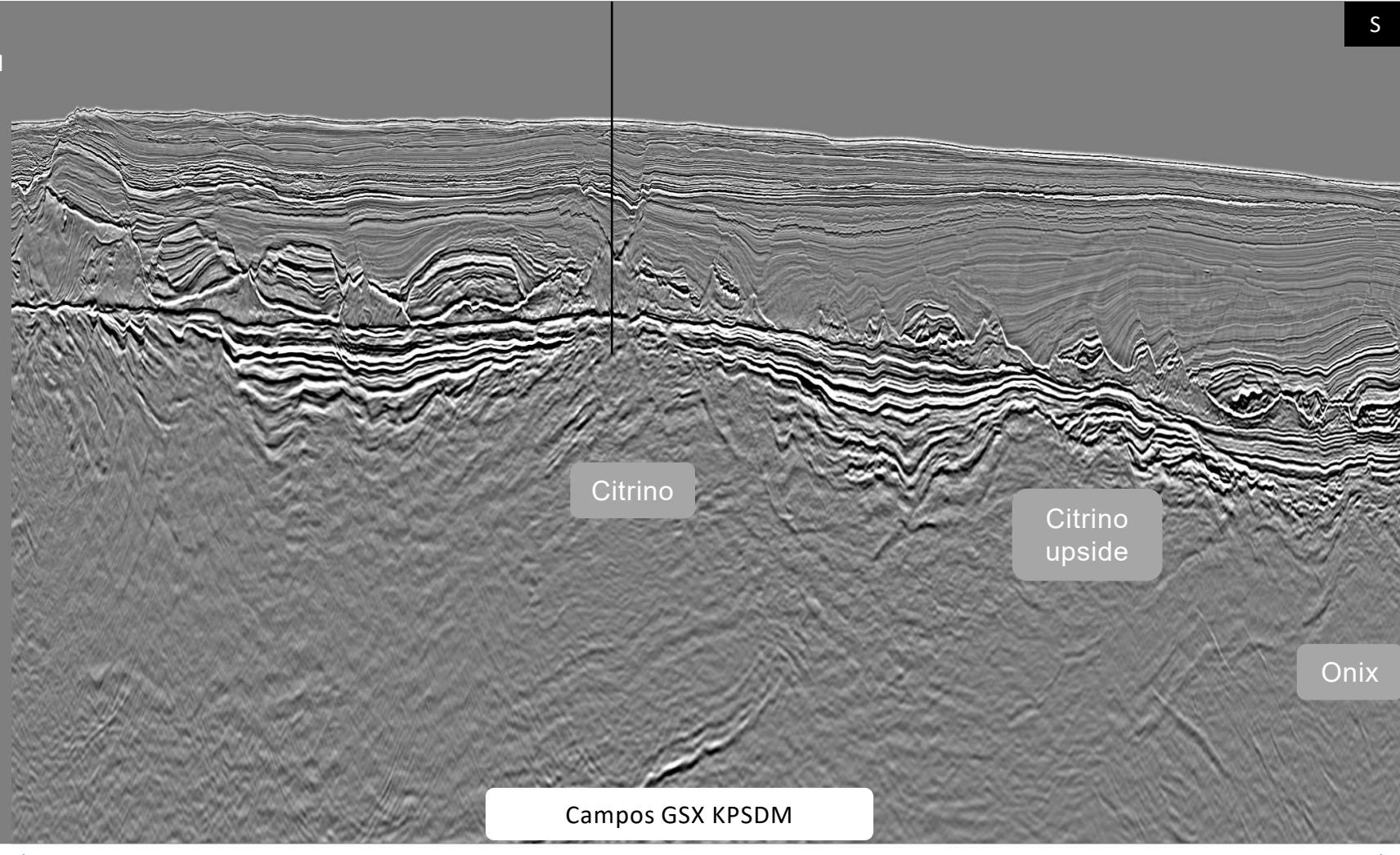
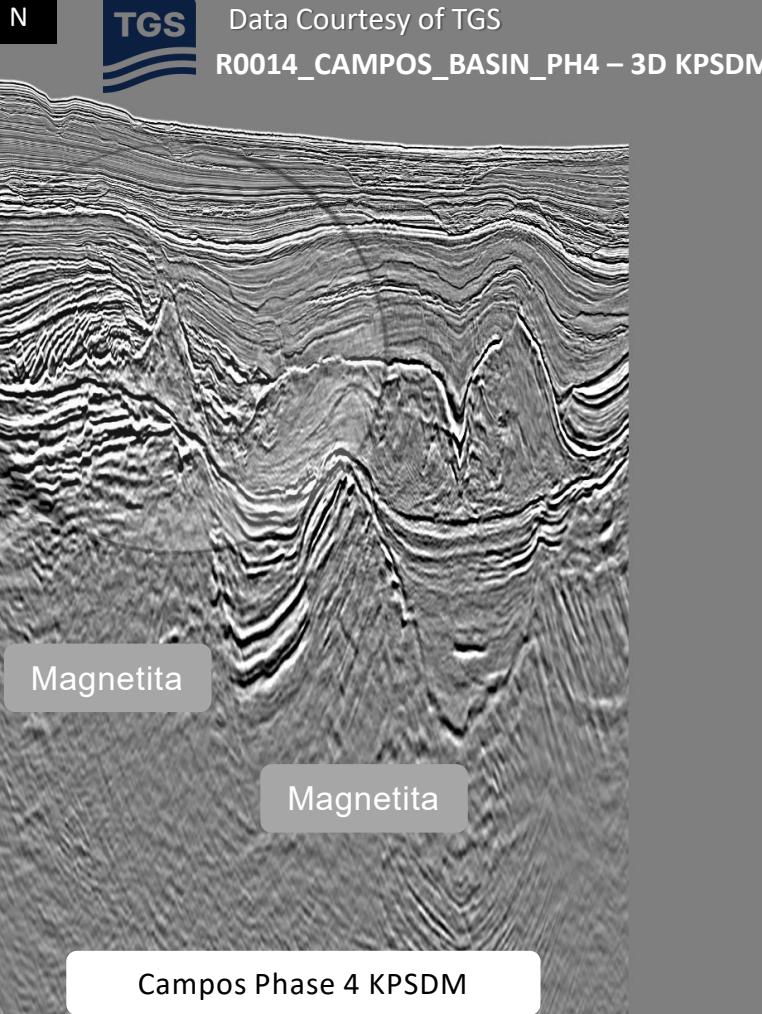


Data Courtesy of TGS

R0014_CAMPOS_BASIN_PH4 – 3D KPSDM

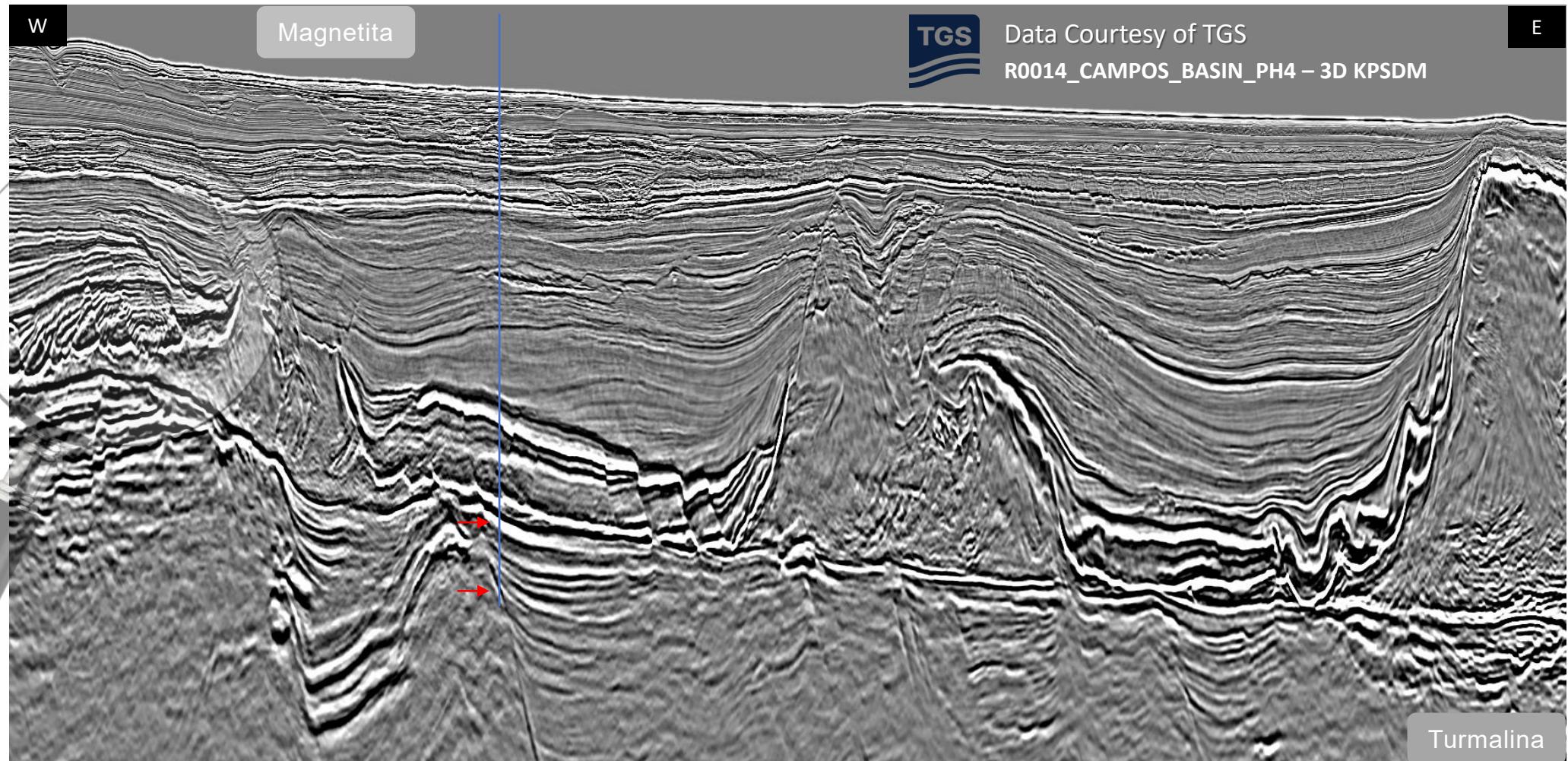
Bloco Magnetita

1-BRSA-230-RJS
(Petróleo no Pré-Sal)

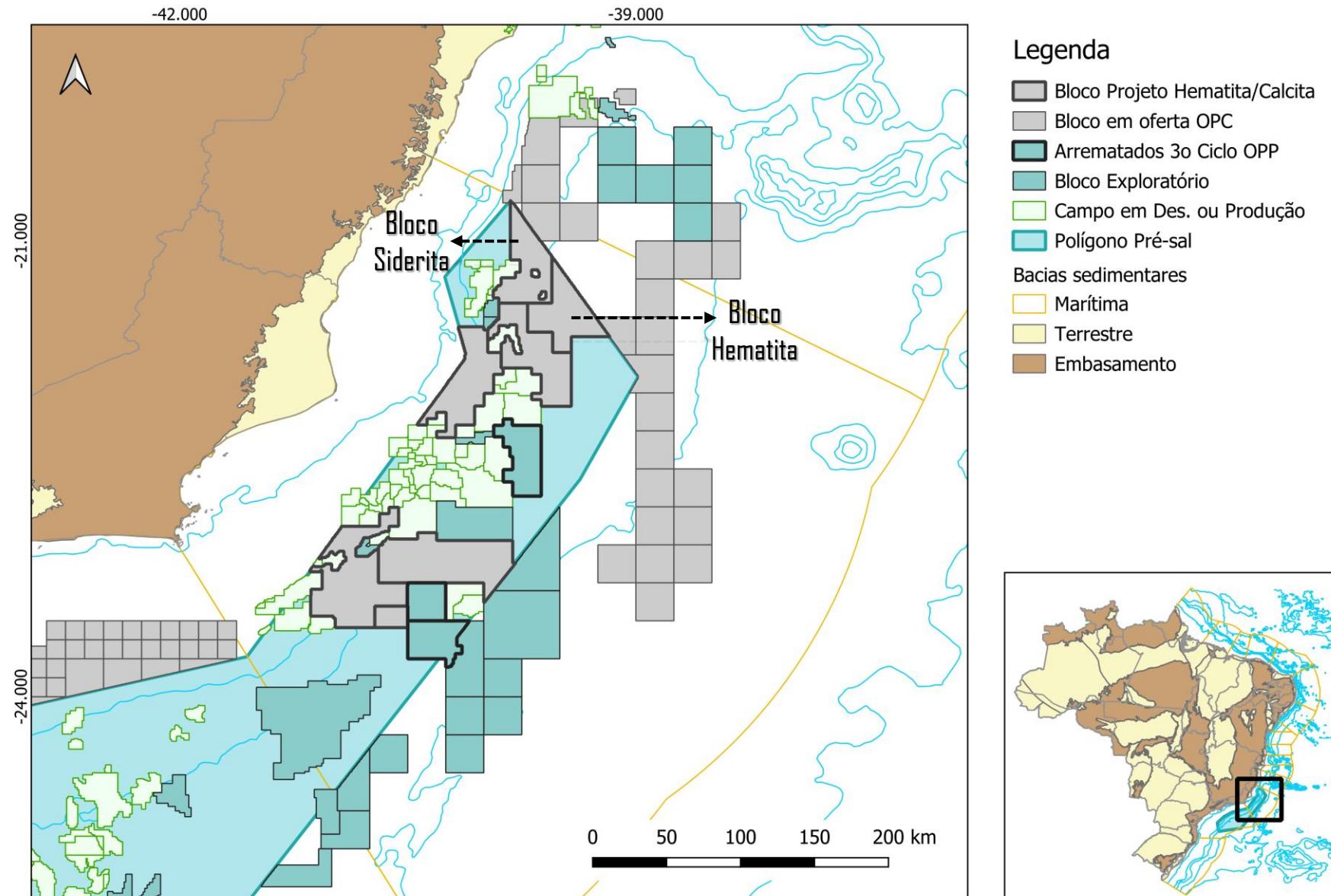


Bloco Magnetita

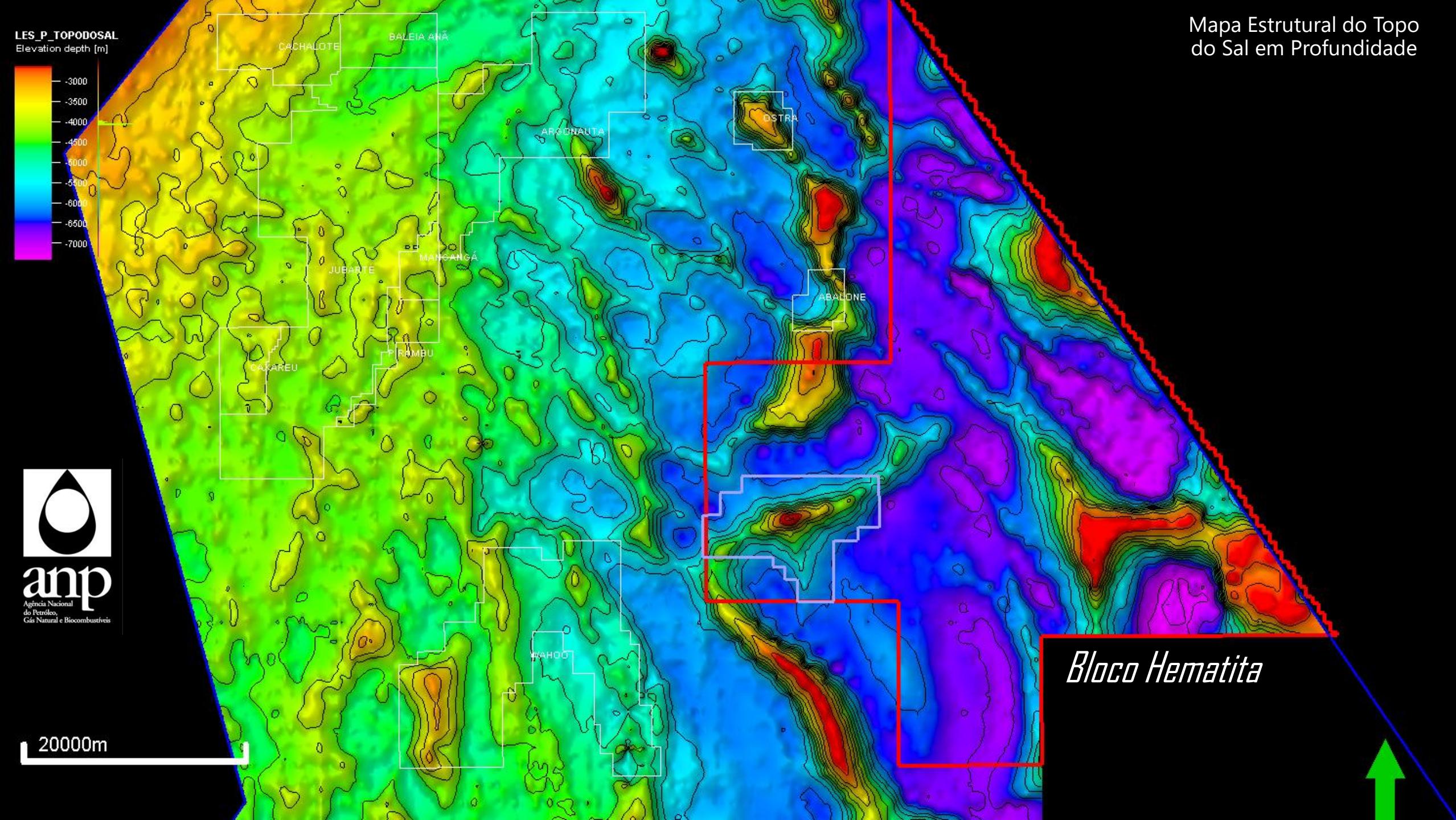
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(Petróleo – Fm. Macabú e Coqueiros)



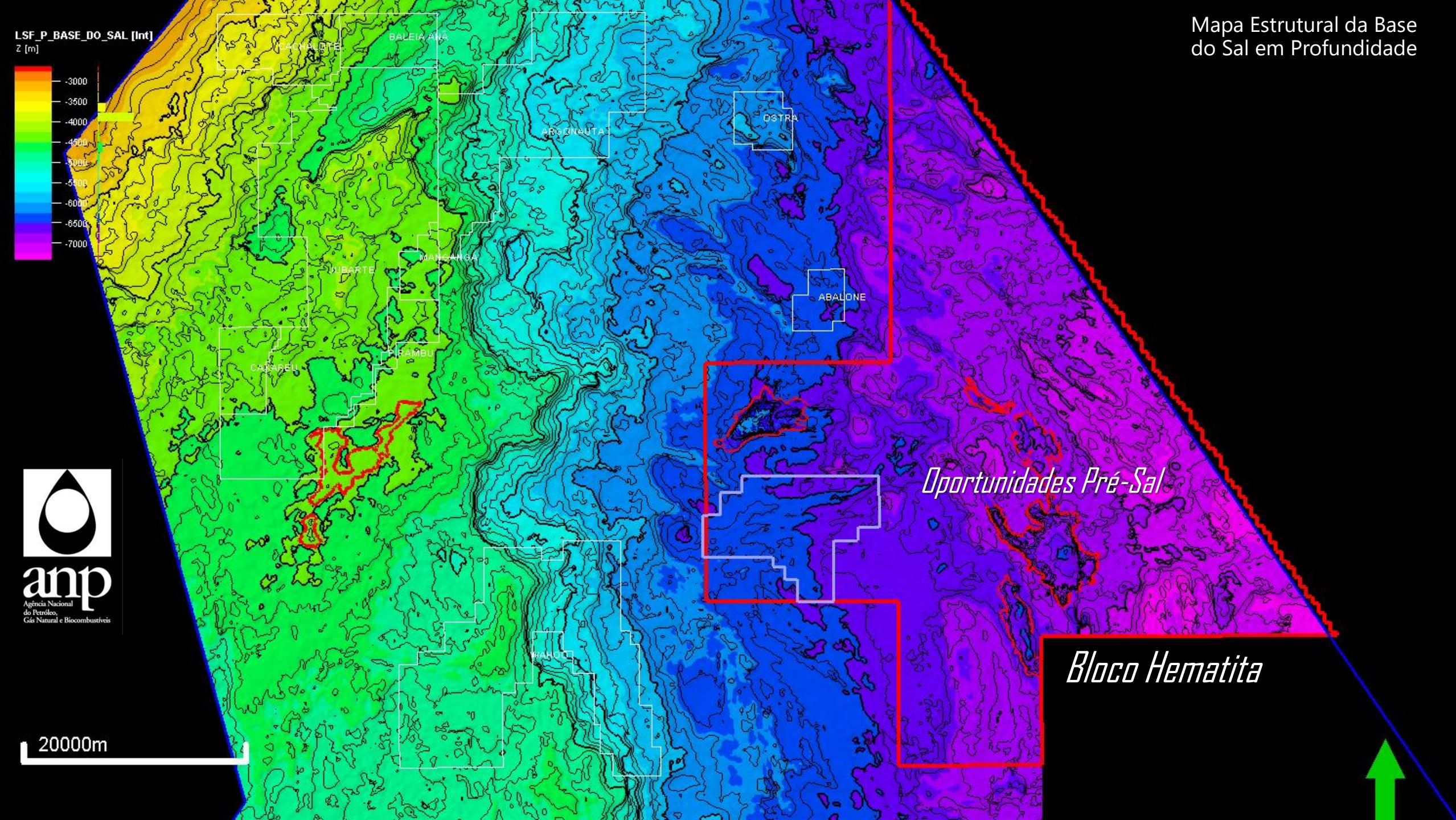
Blocos Siderita e Hematita



Mapa Estrutural do Topo
do Sal em Profundidade



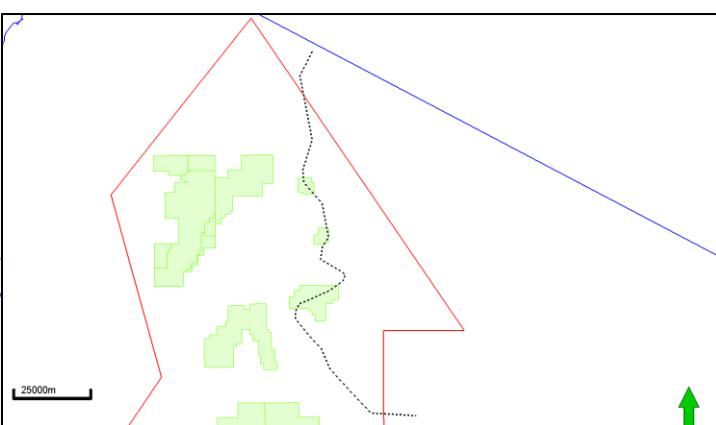
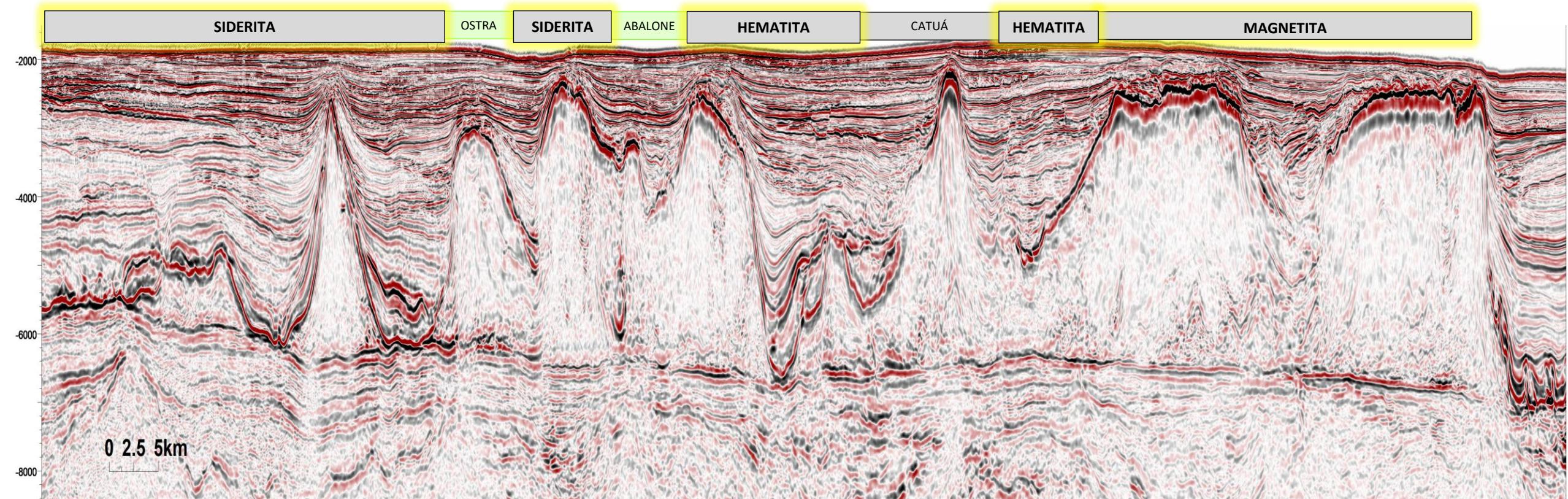
Mapa Estrutural da Base do Sal em Profundidade



Agência Nacional
do Petróleo,
Gás Natural e Biocombustíveis

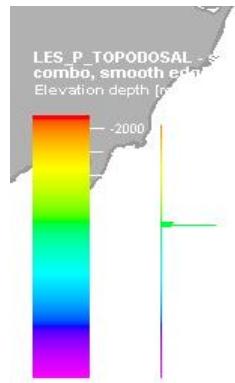
20000m

Blocos Siderita e Hematita

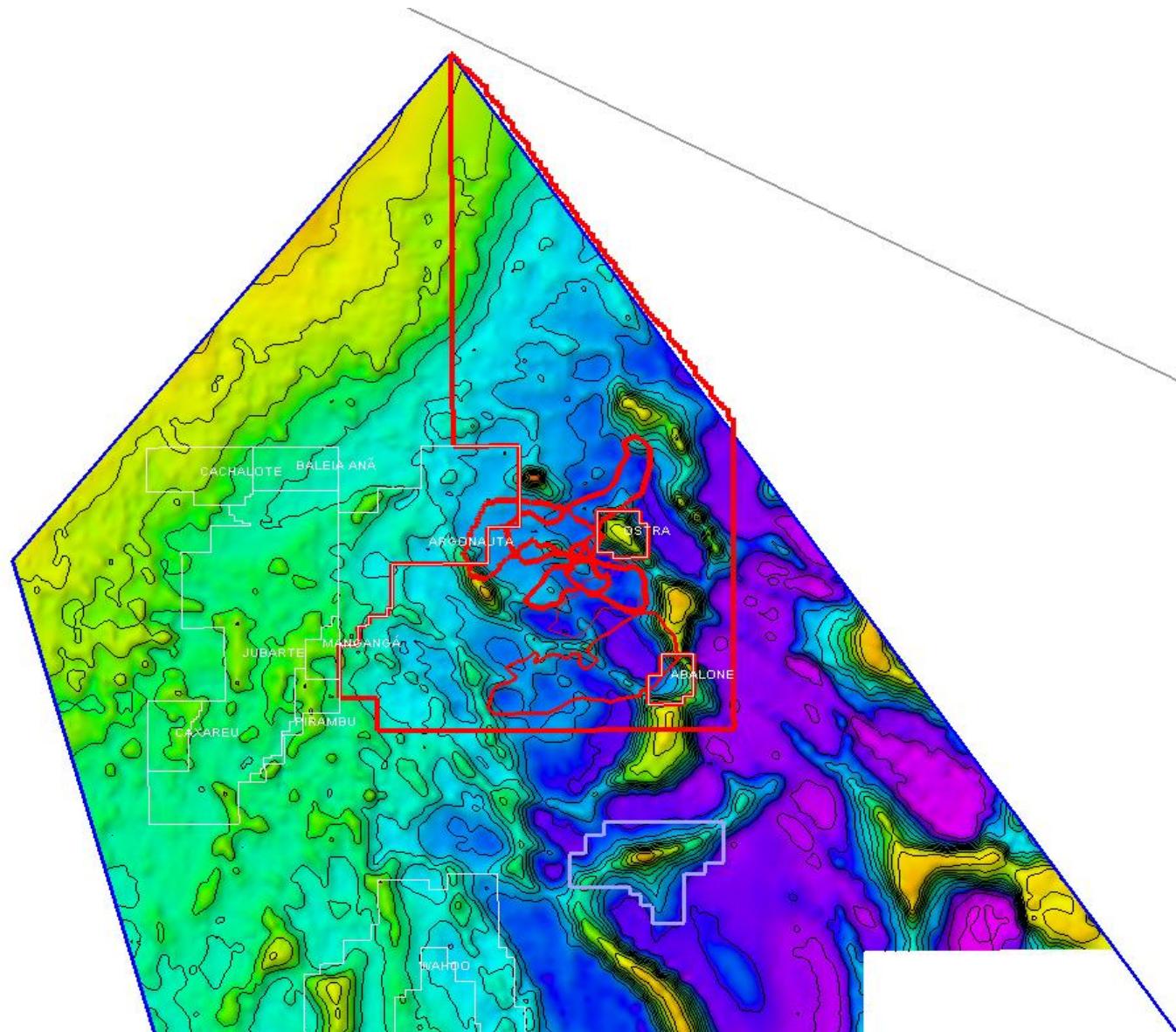


Data Courtesy of TGS
PICANHA_PH2_PH3

Bloco Siderita

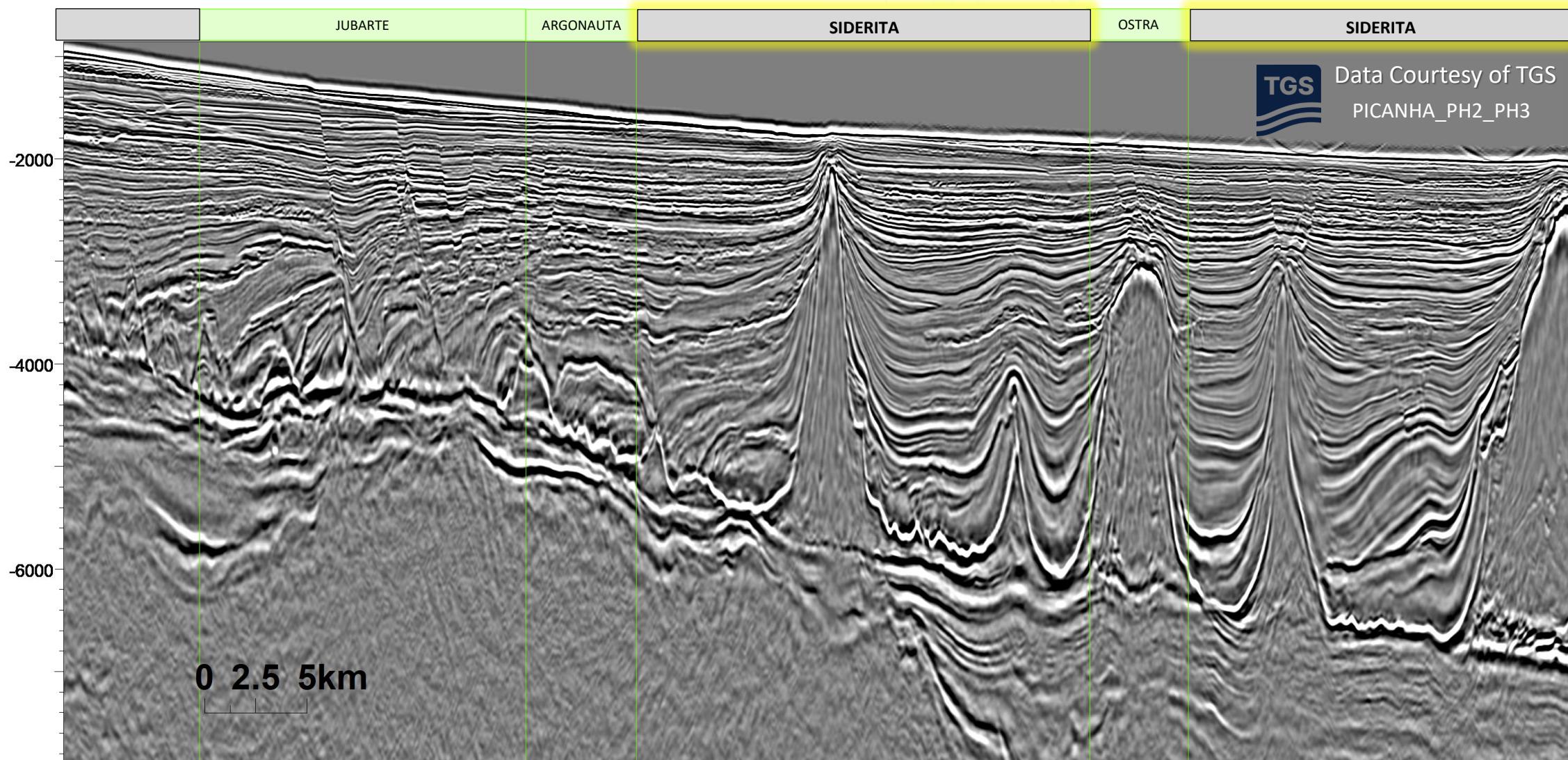


20000m

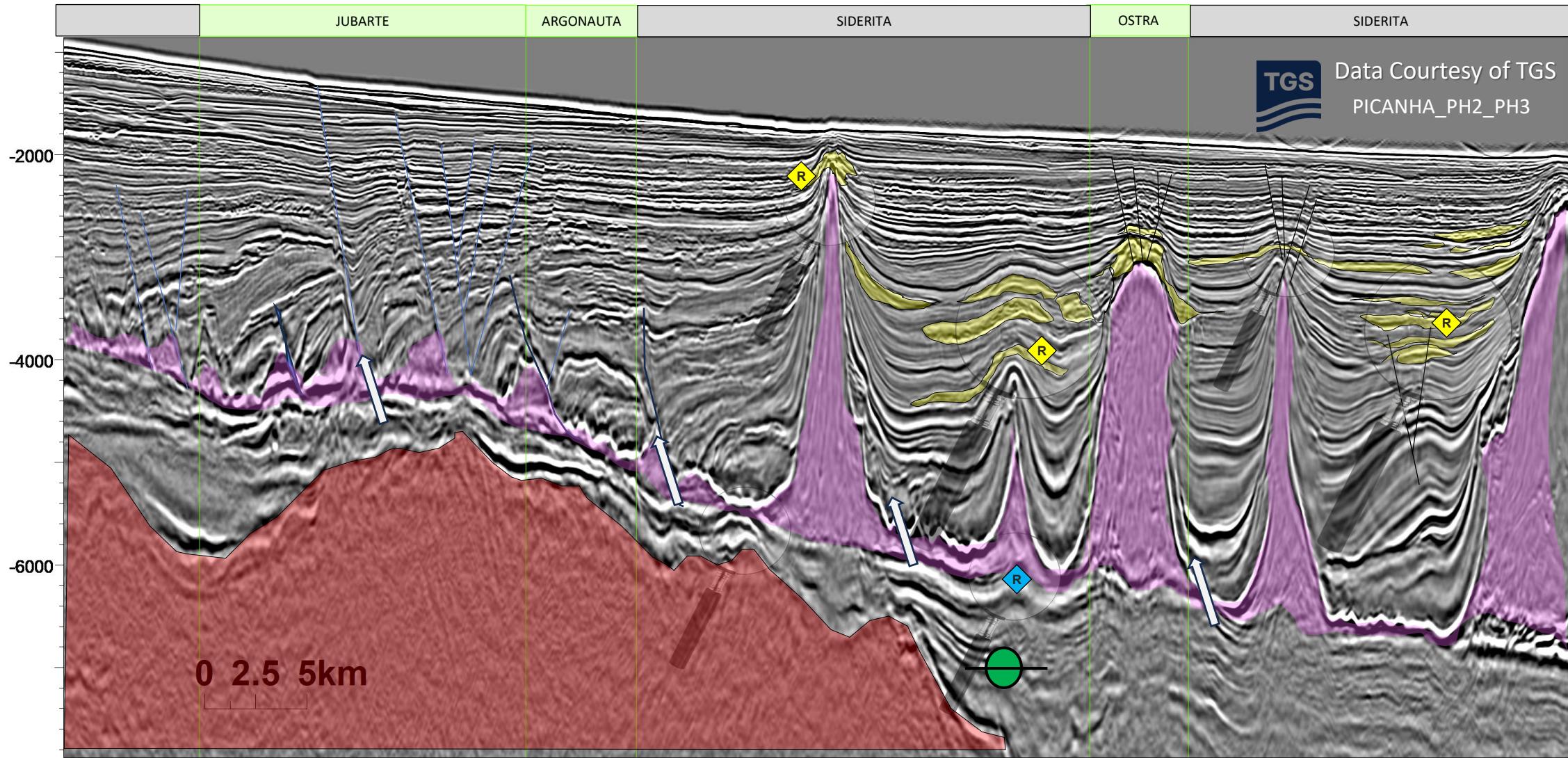


Mapa Estrutural do Topo
do Sal em Profundidade

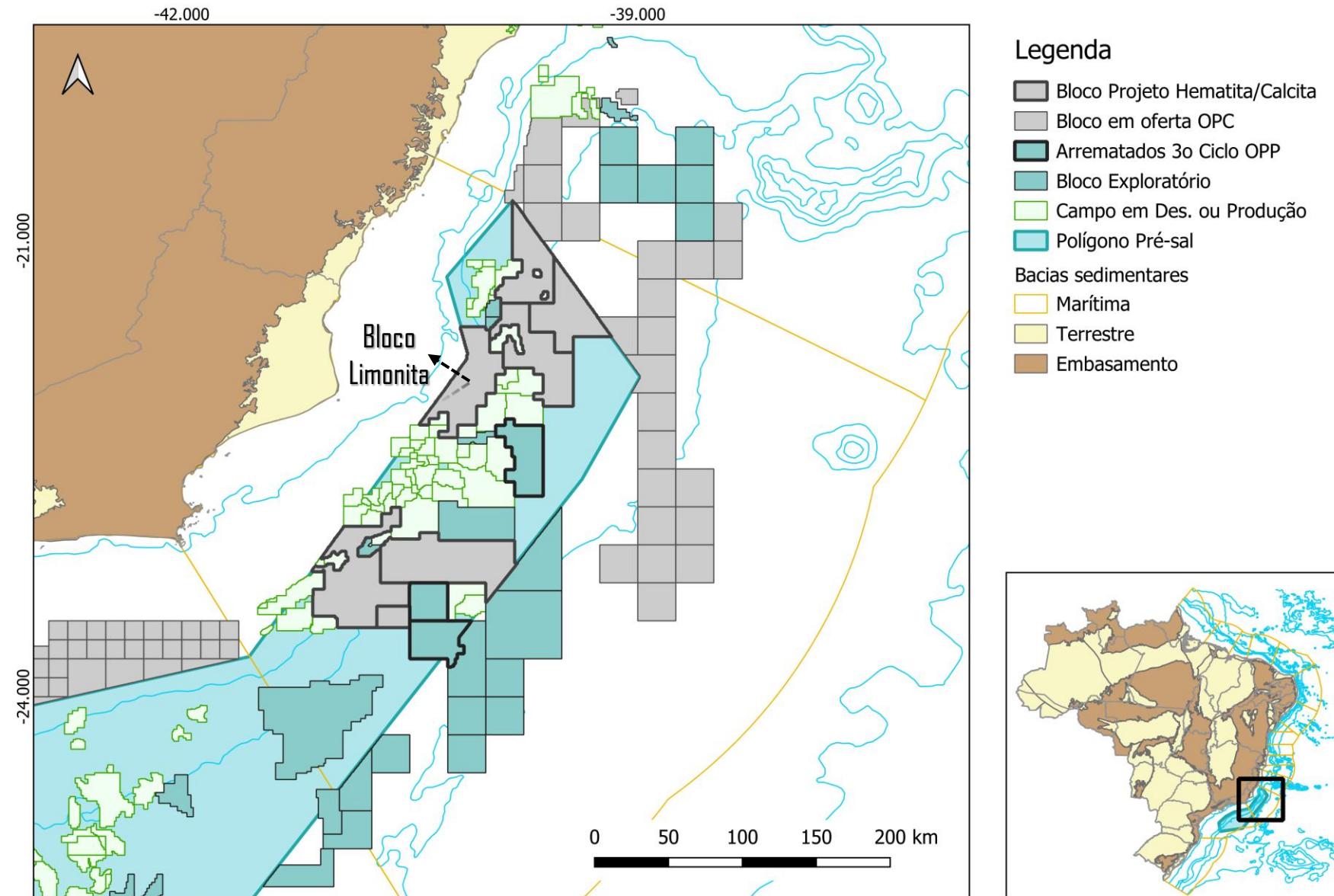
Bloco Siderita



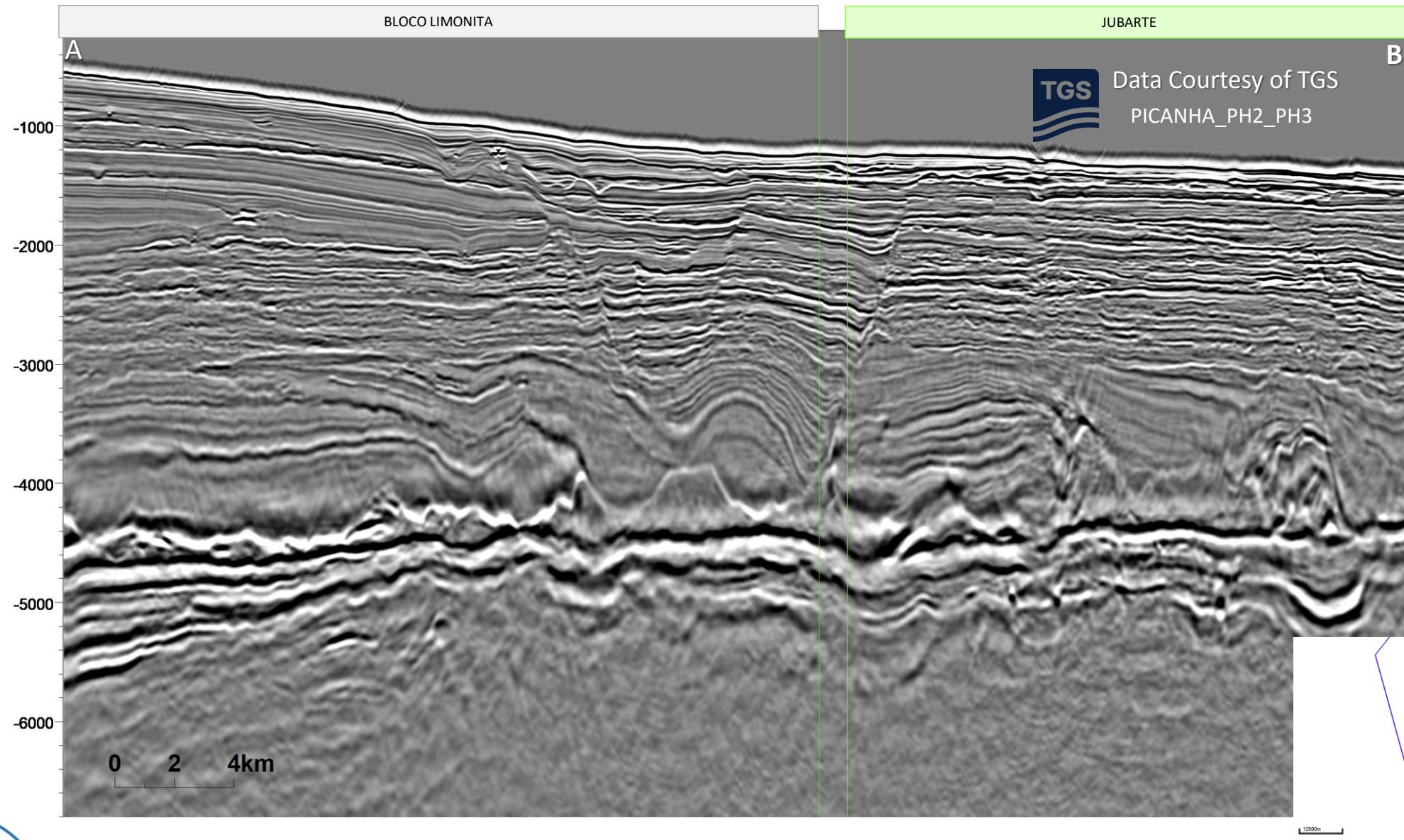
Bloco Siderita



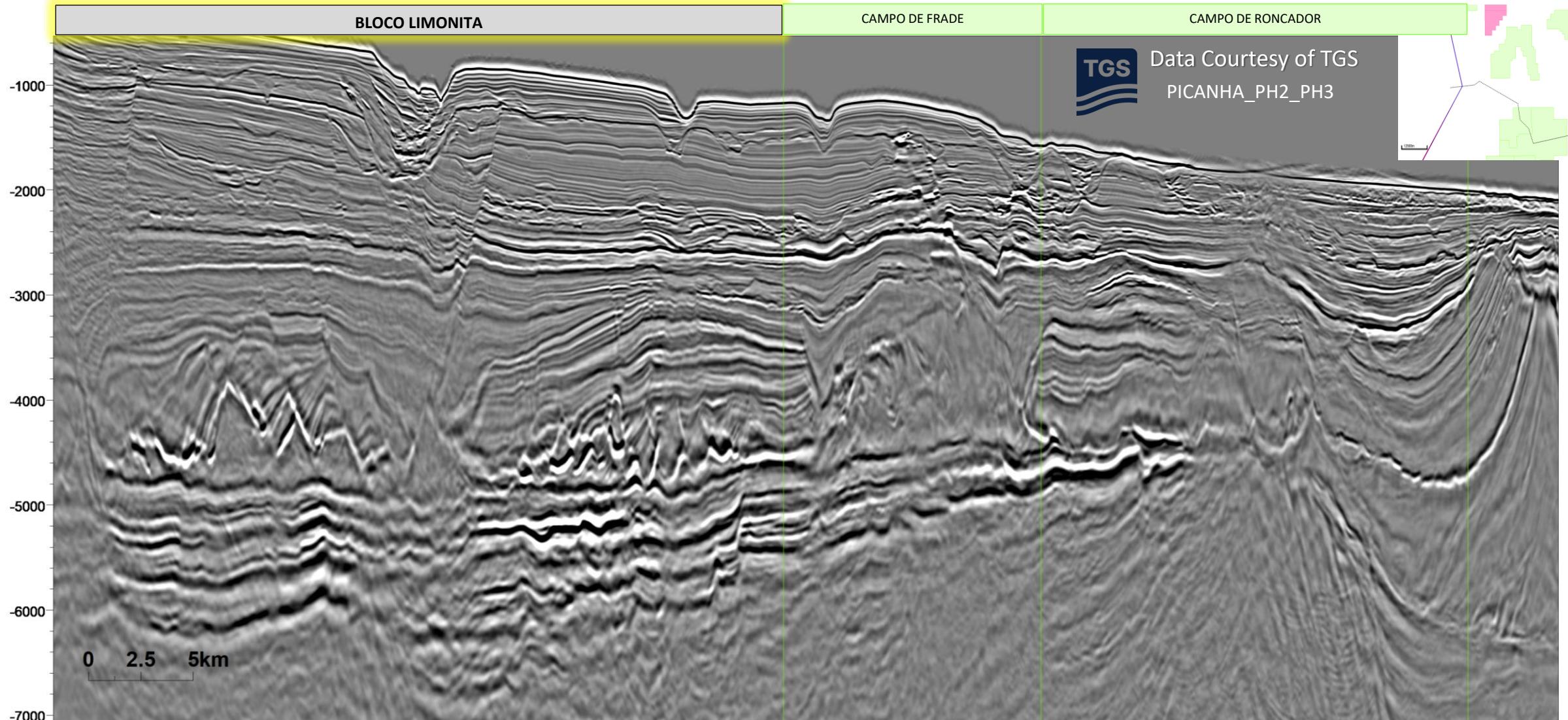
Bloco Limonita



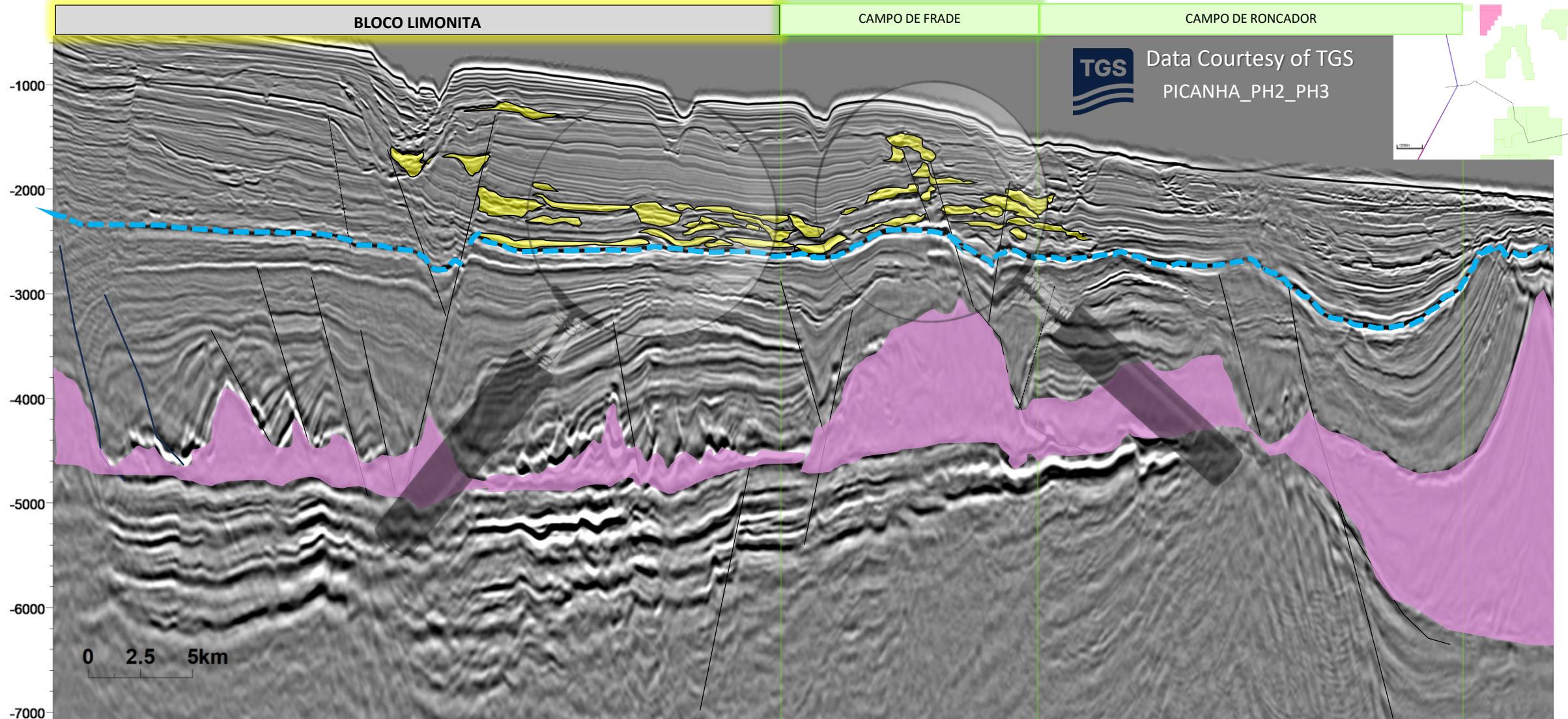
Bloco Limonita



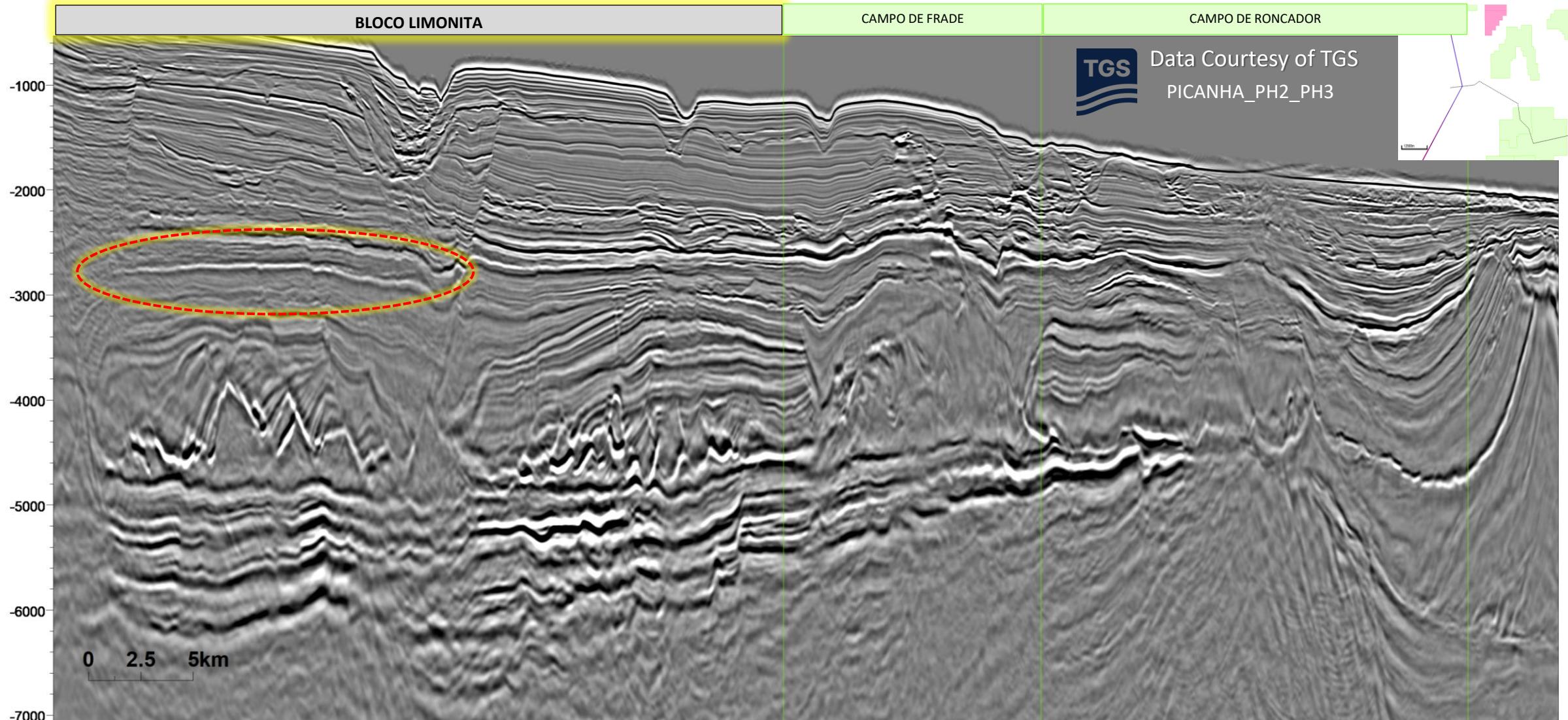
Bloco Limonita



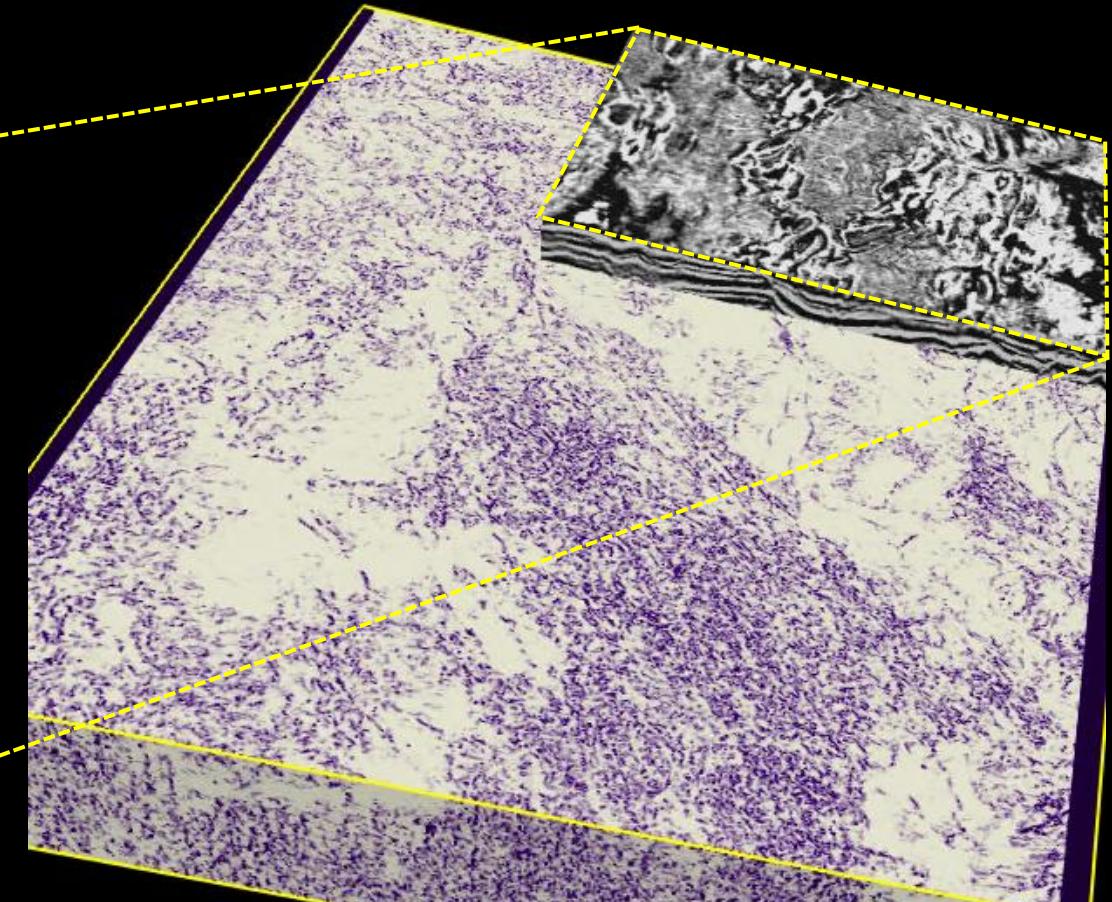
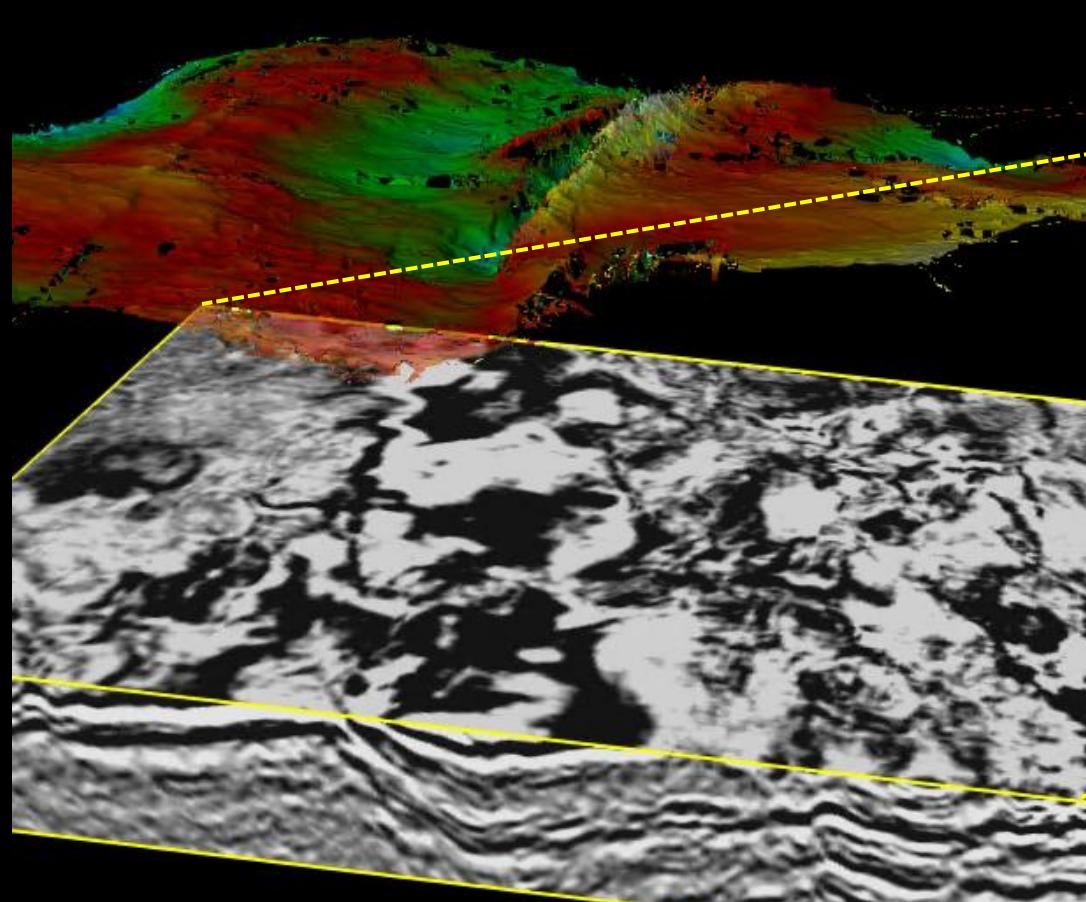
Bloco Limonita



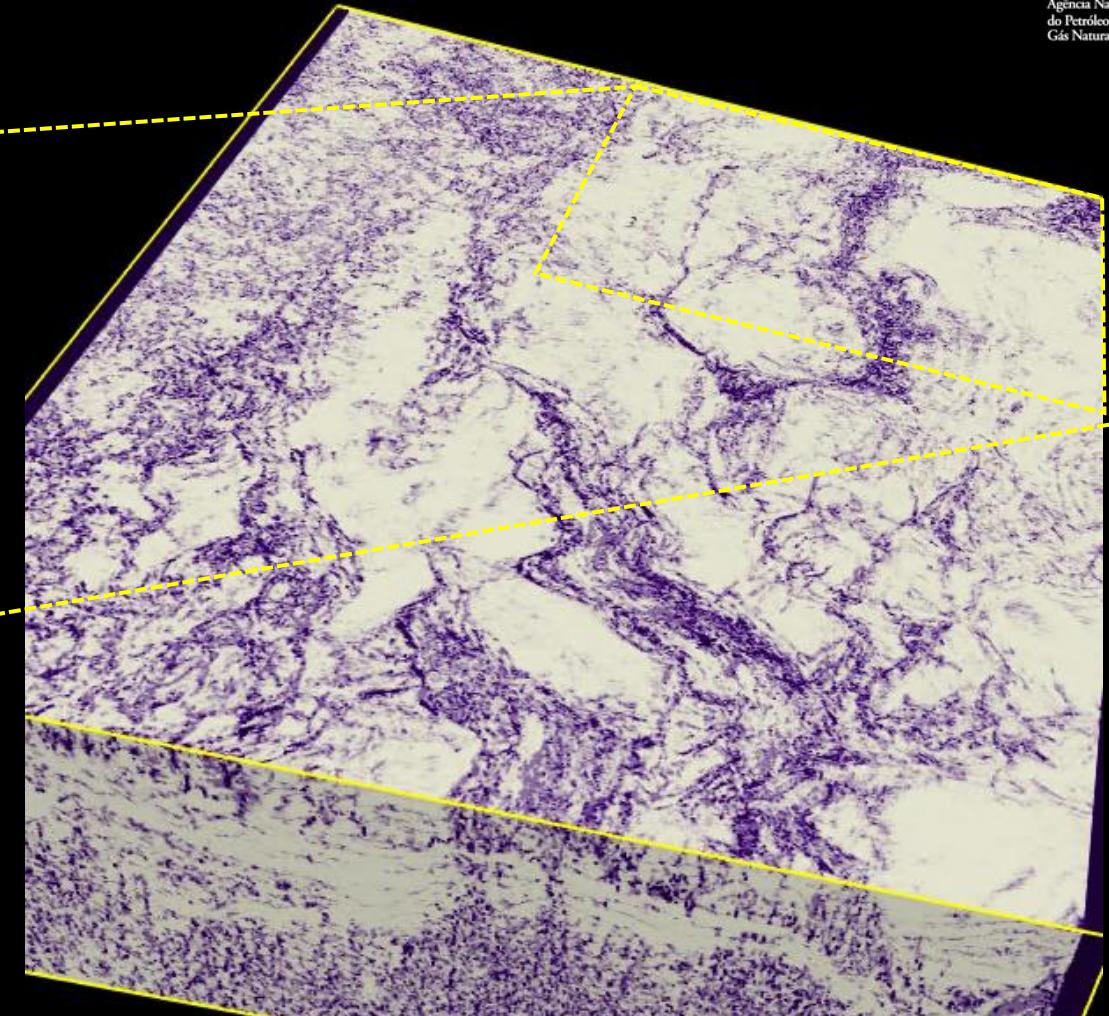
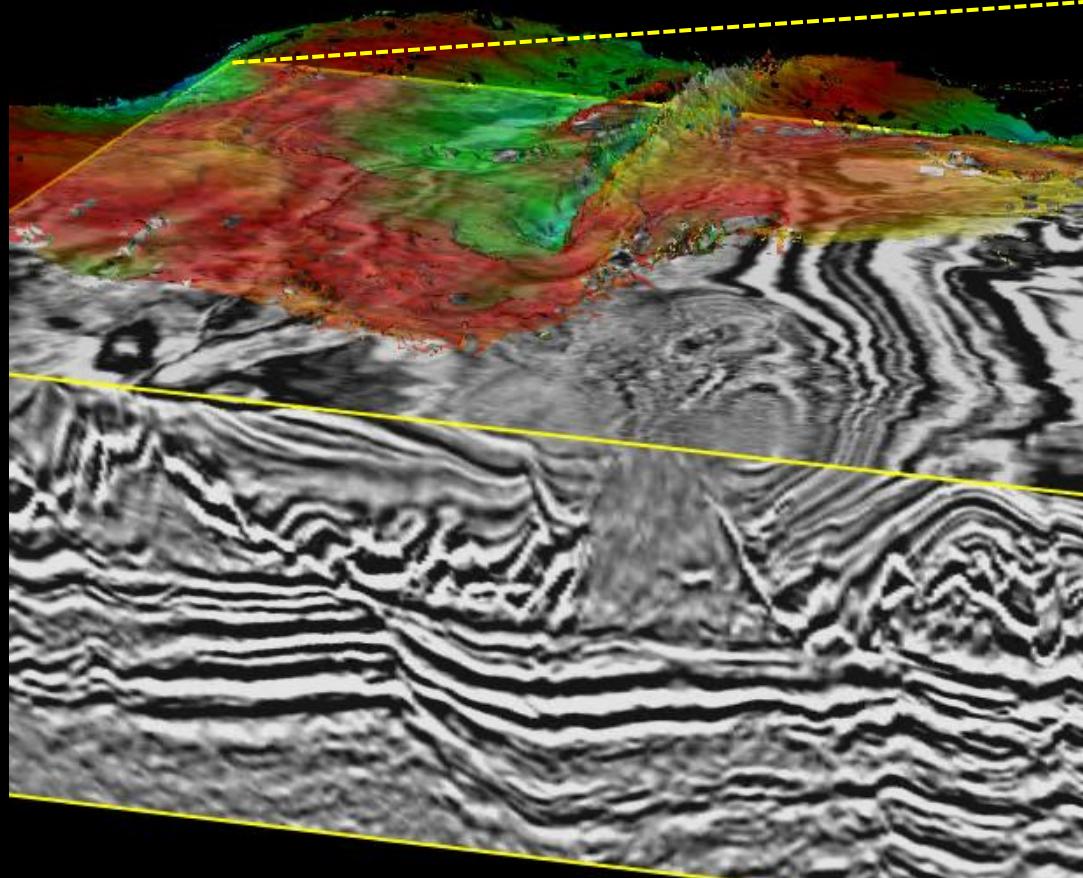
Bloco Limonita



Bacia de Campos - Bloco Limonita



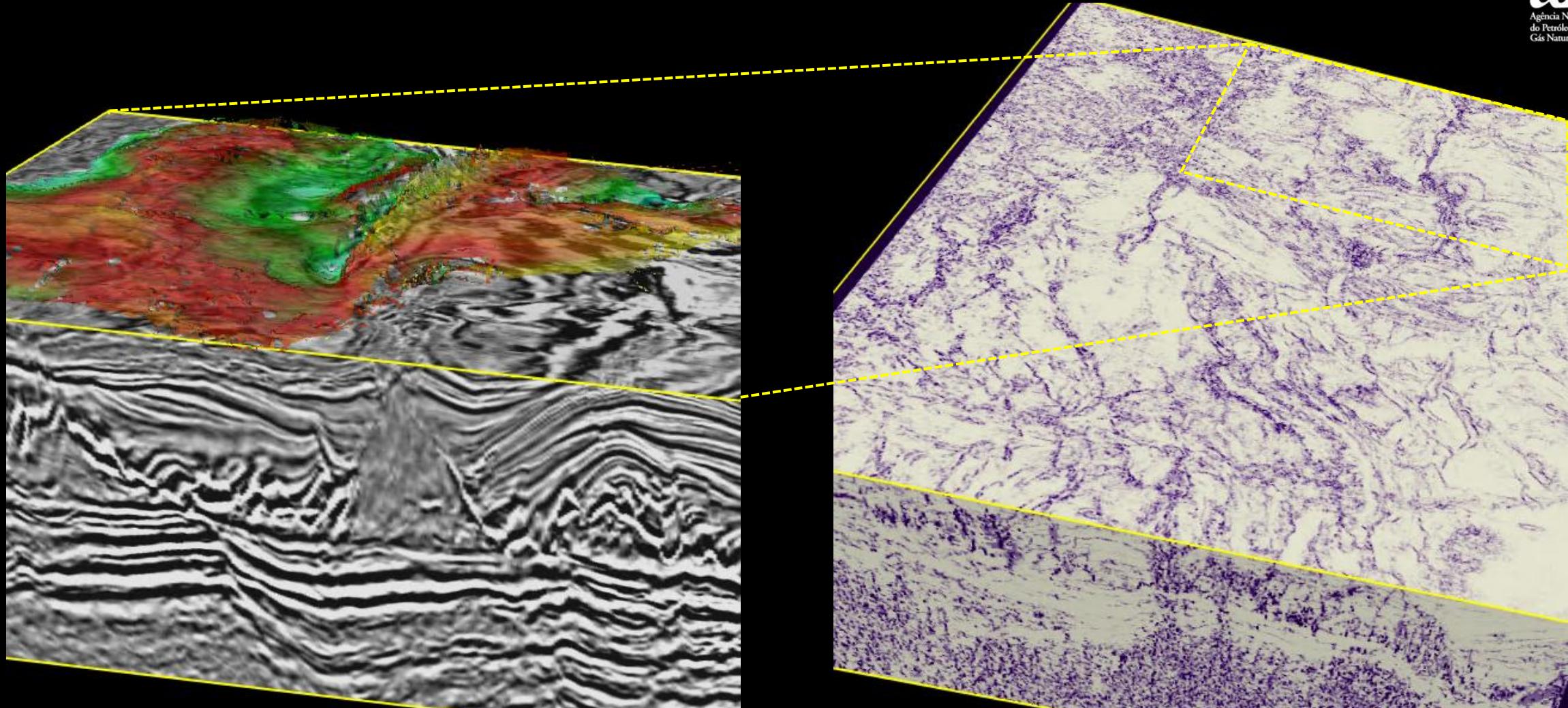
Bacia de Campos - Bloco Limonita



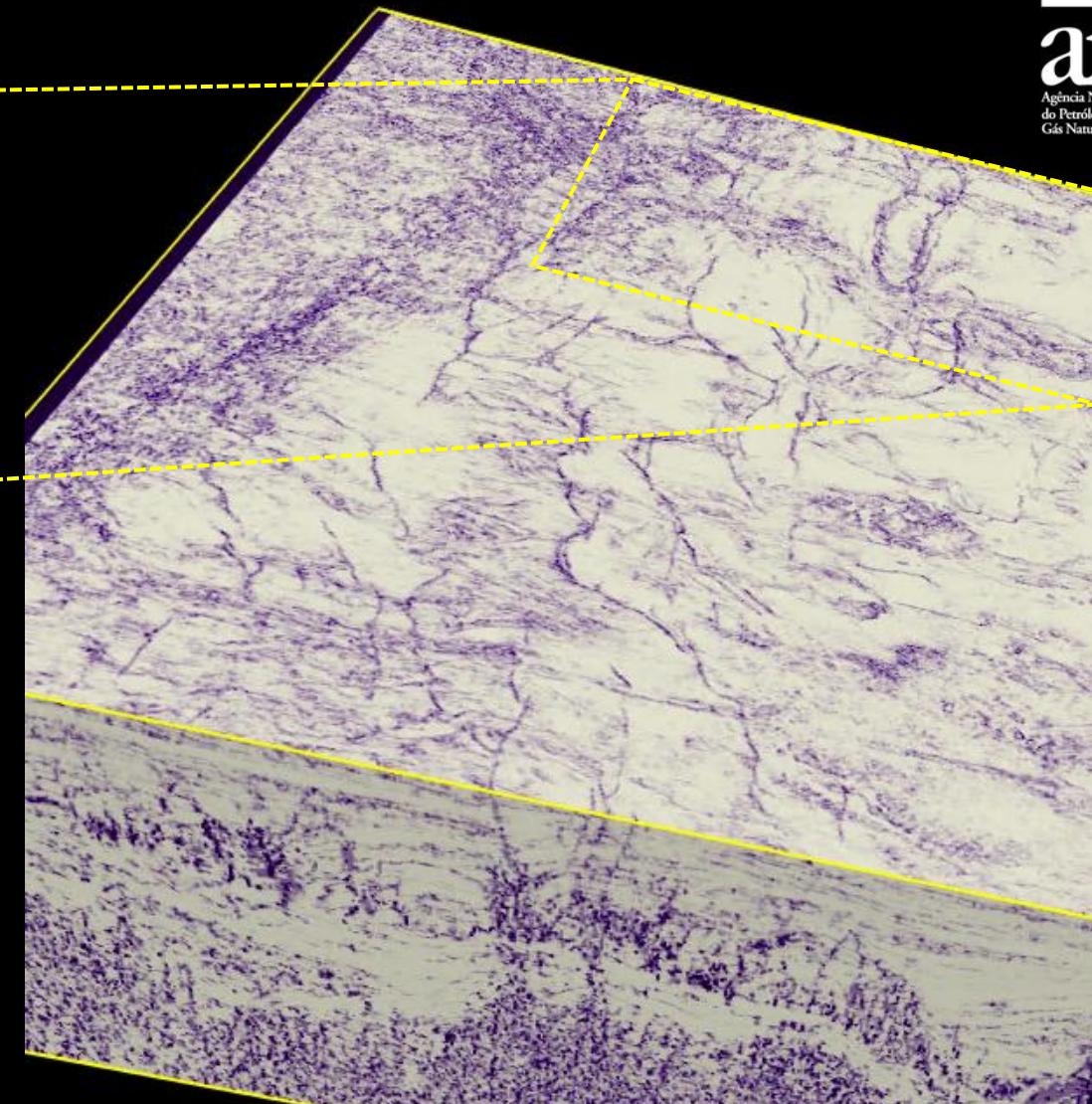
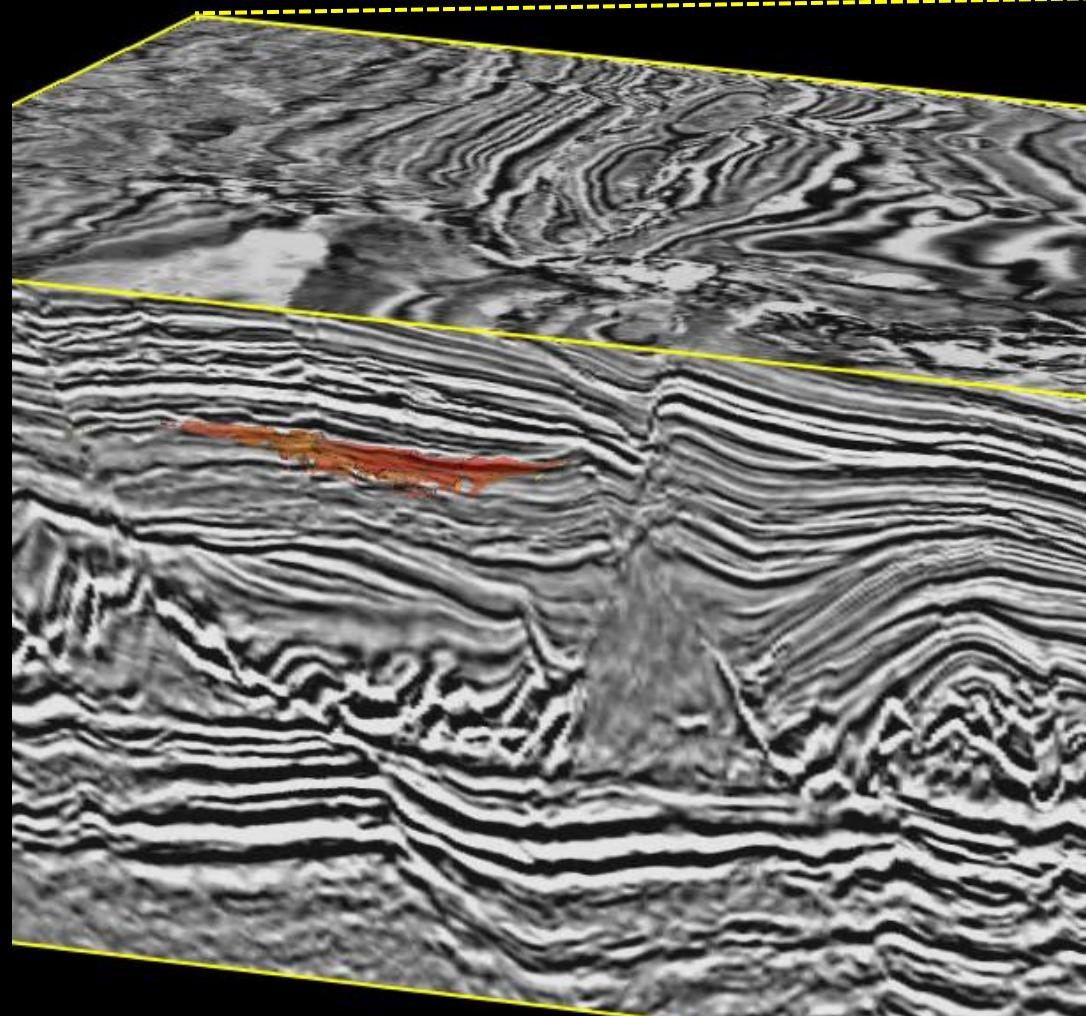
Data Courtesy of TGS

Depth \geq 3500 m

Bacia de Campos - Bloco Limonita



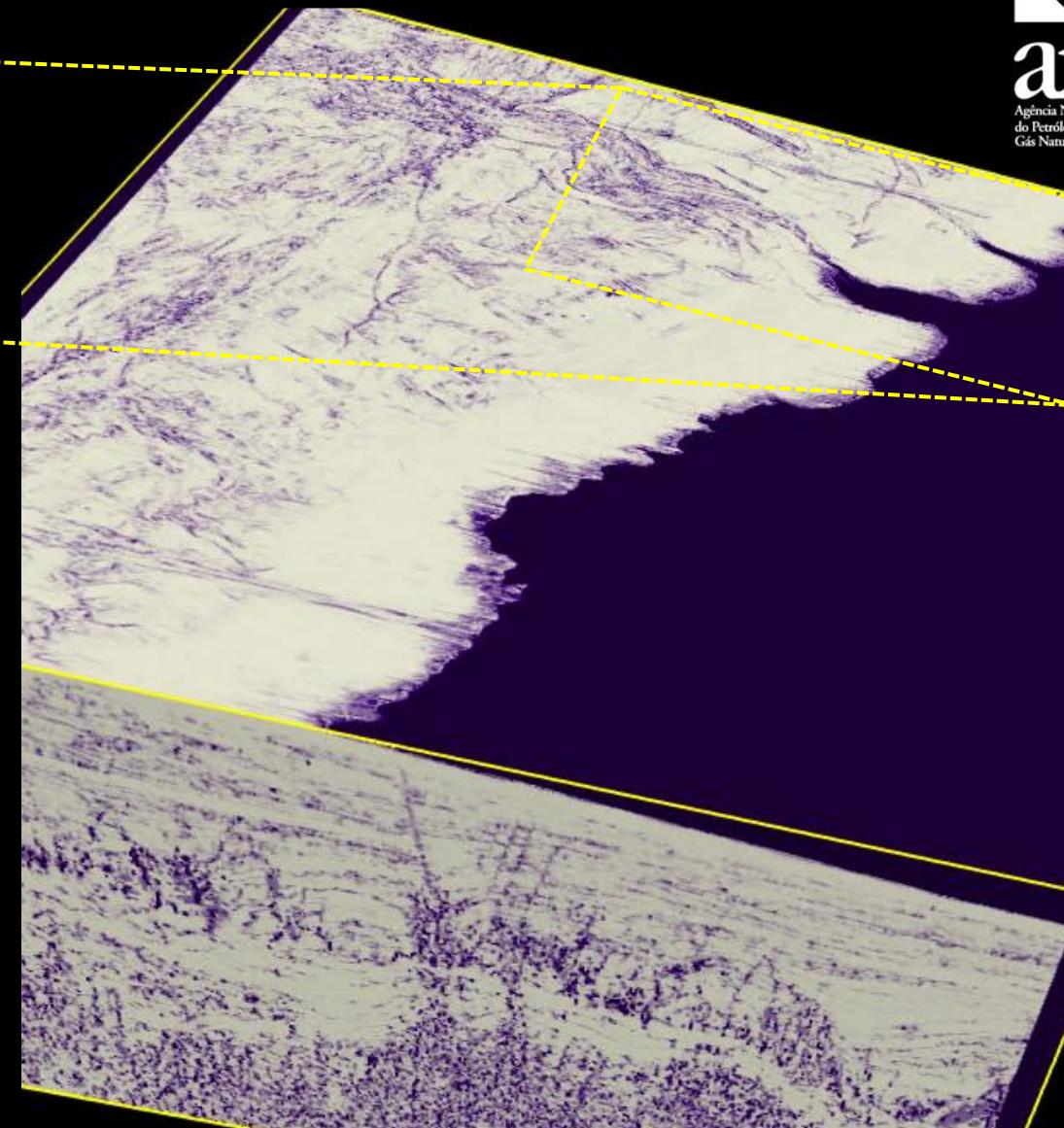
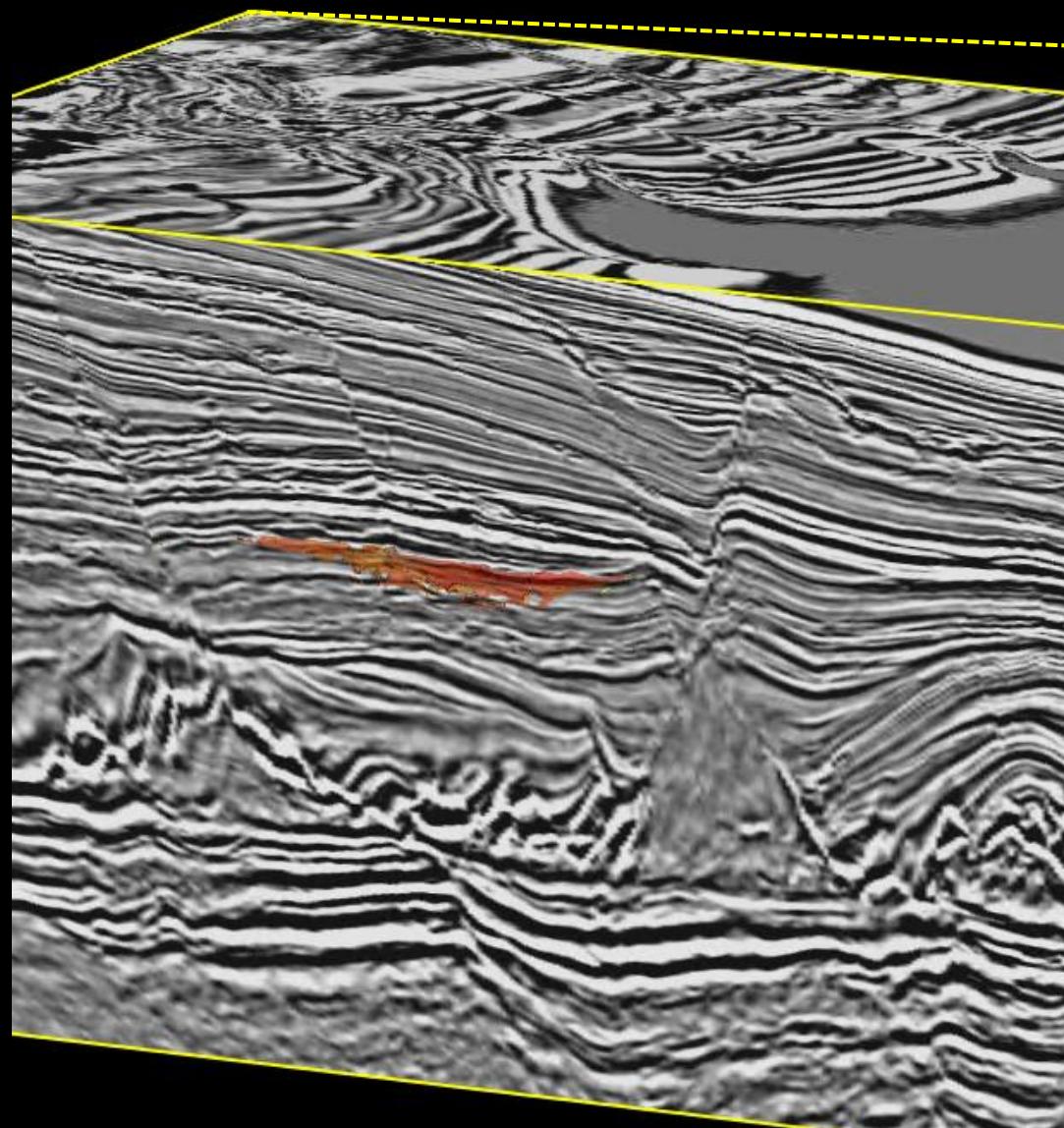
Bacia de Campos - Bloco Limonita



Data Courtesy of TGS

Depth \geq 2000 m

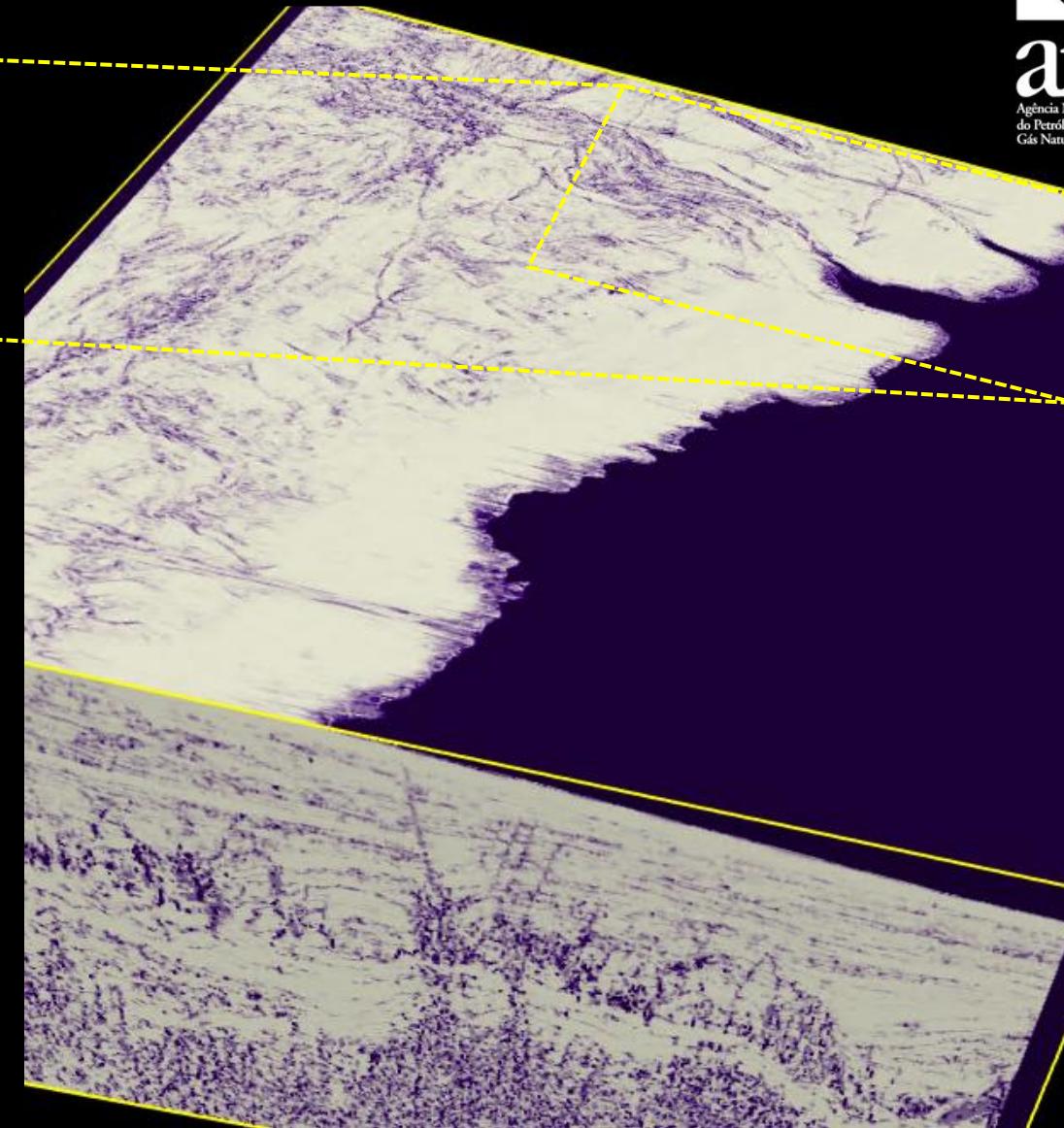
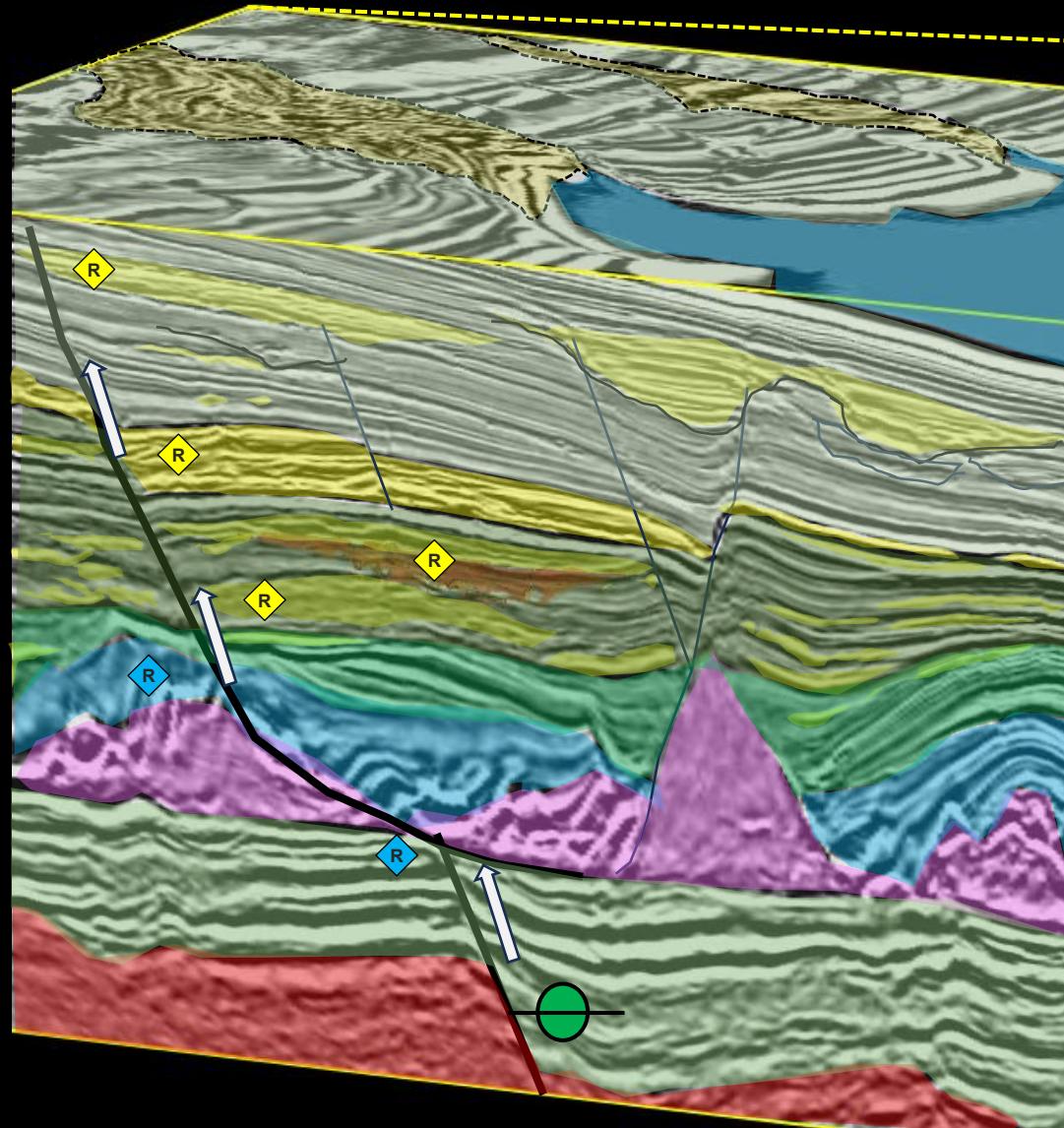
Bacia de Campos - Bloco Limonita



Data Courtesy of TGS

Depth ≥ 1000 m

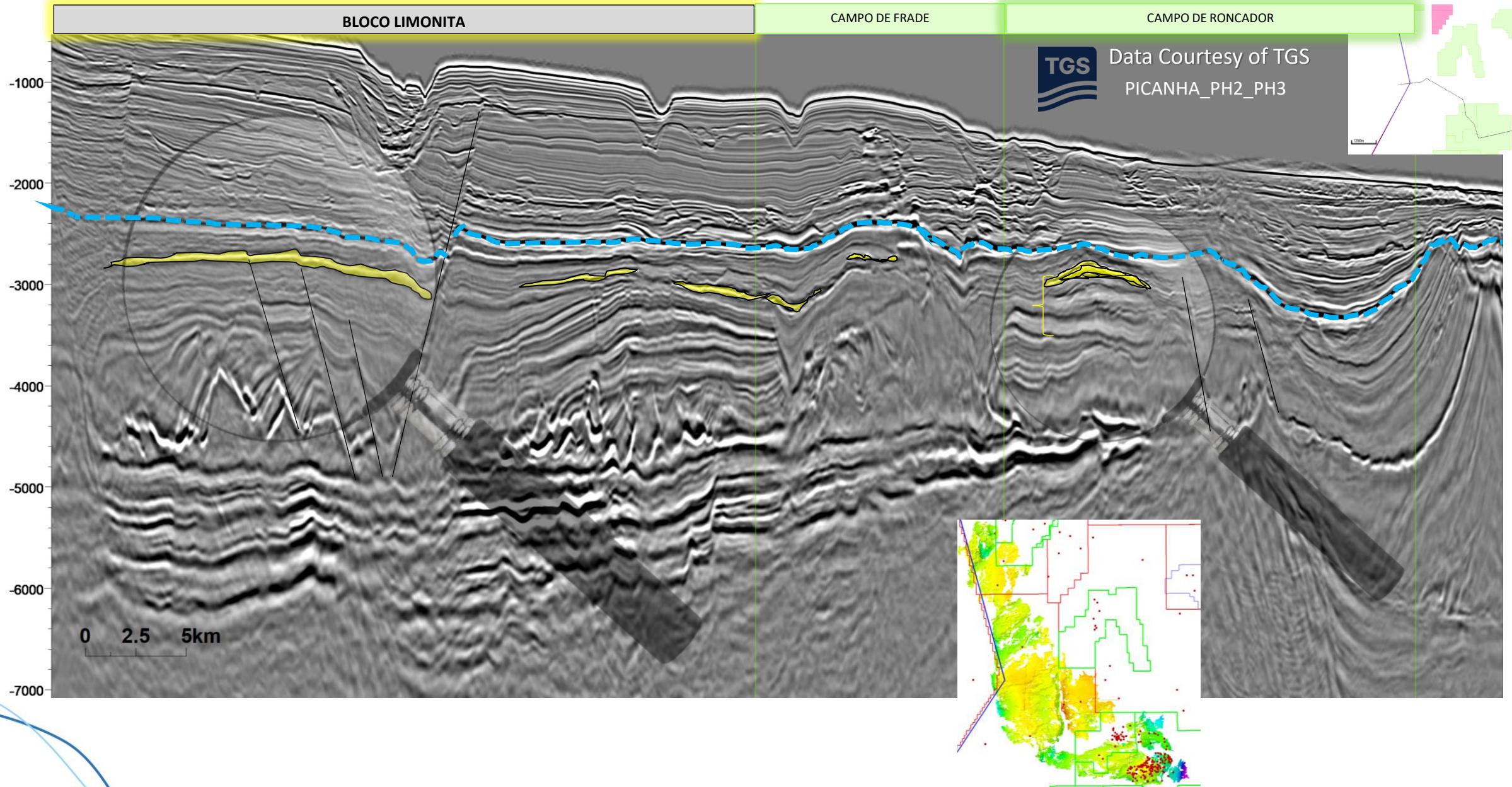
Bacia de Campos - Bloco Limonita



Data Courtesy of TGS

Depth ≥ 1000 m

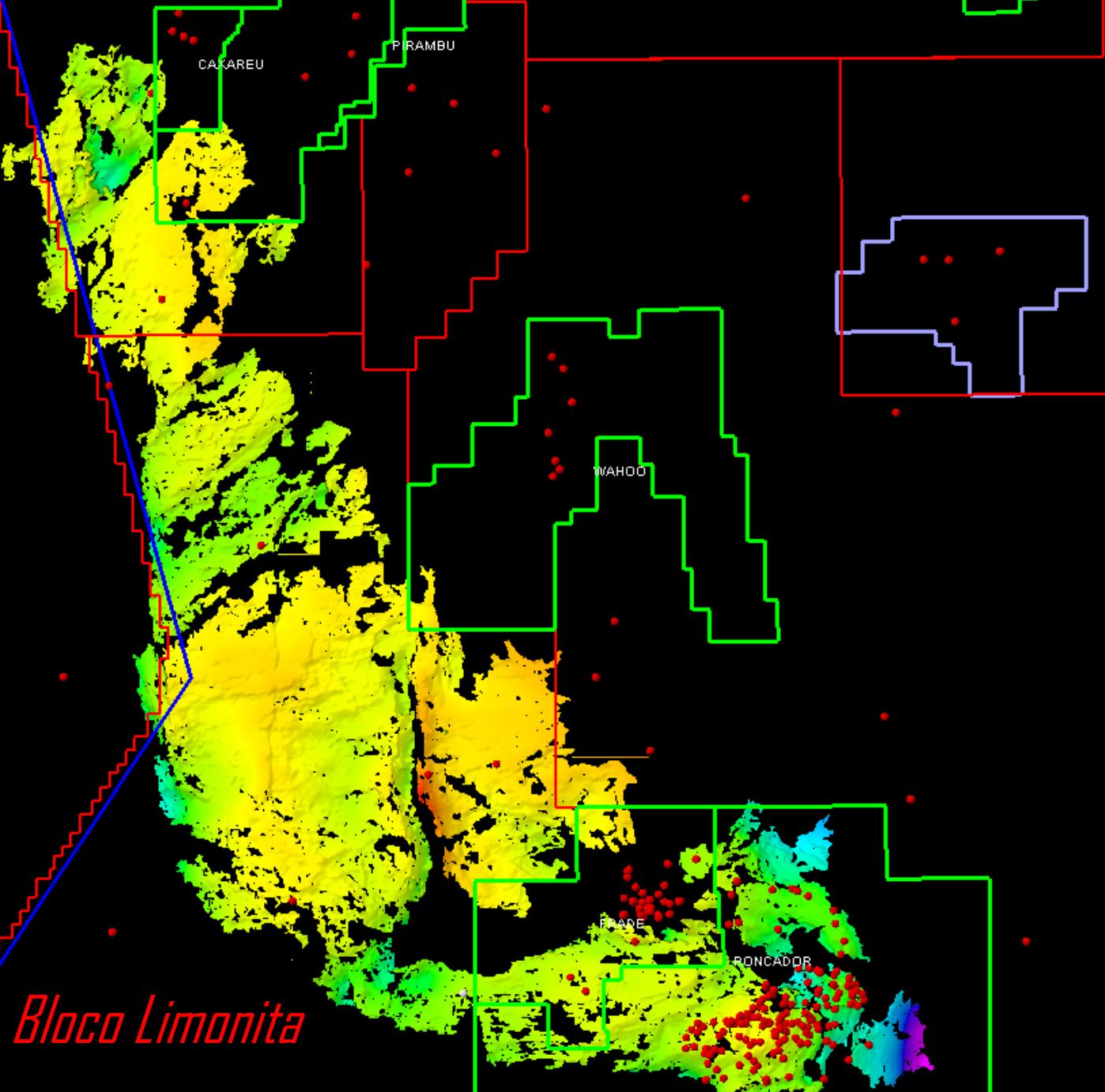
Bloco Limonita





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Bloco Limonita

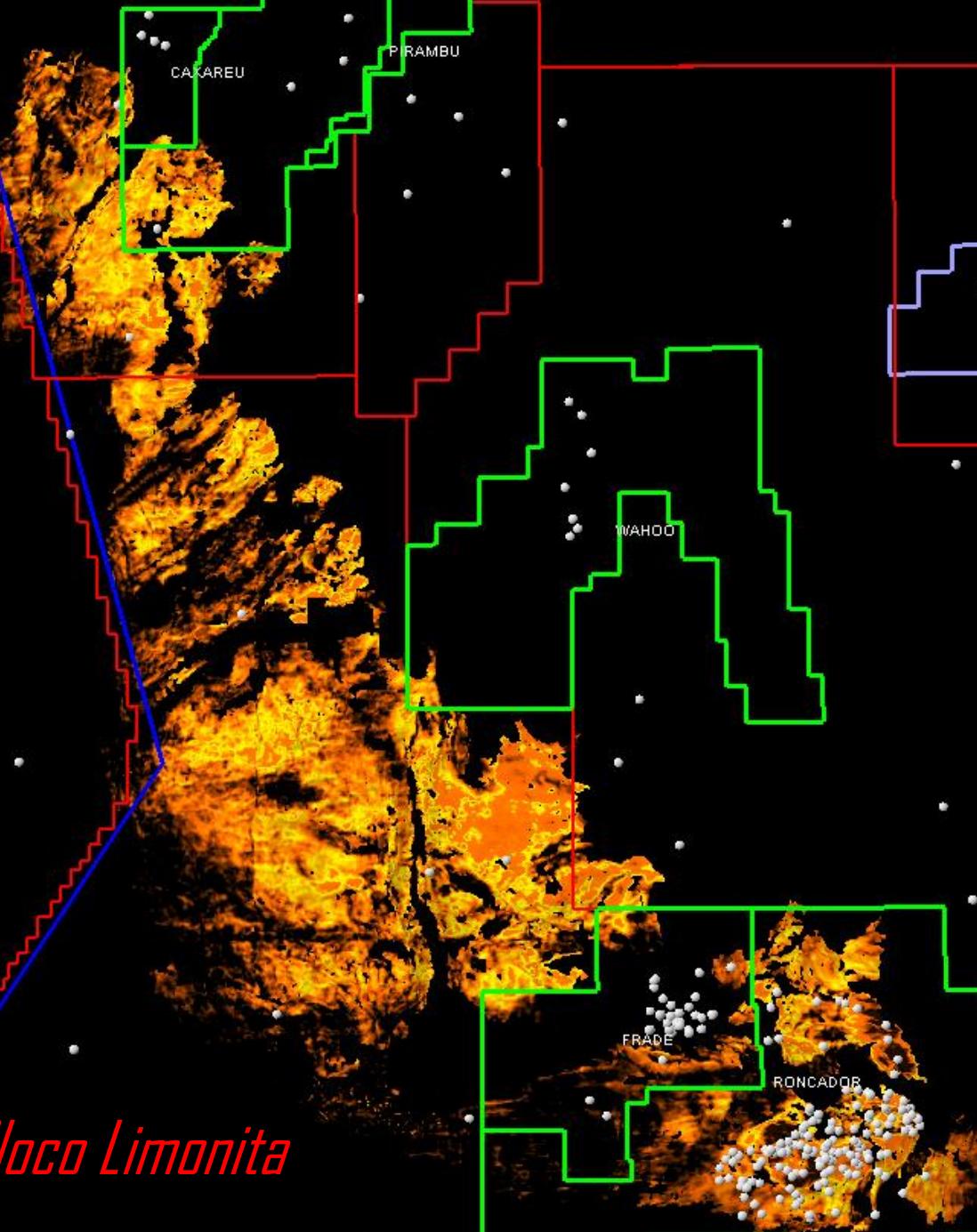


Track semi-automático
Arenito K ("Roncador")
Mapa Estrutural em
Profundidade



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Bloco Limonita

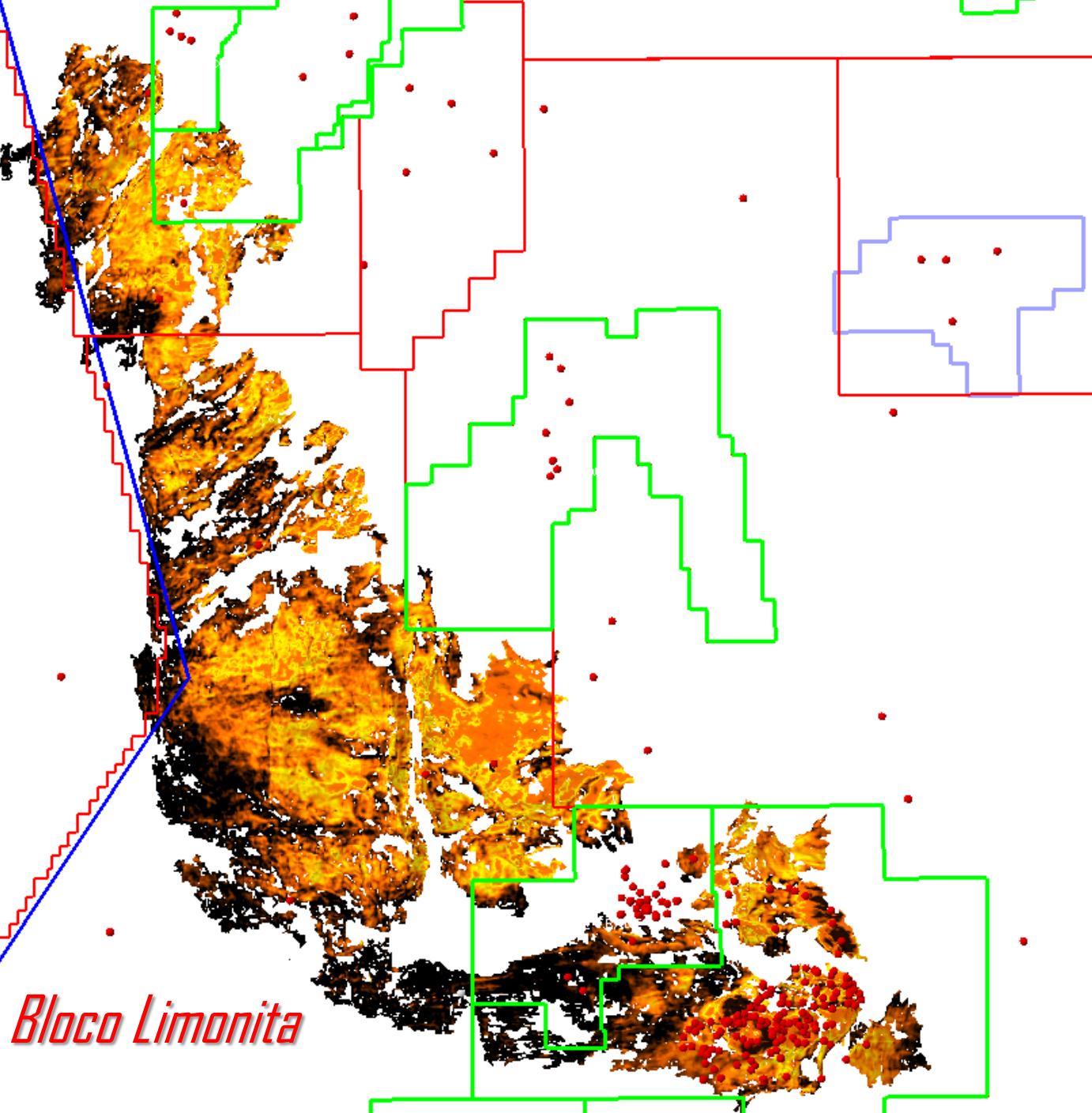


Track semi-automático
Arenito K ("Roncador")
Mapa de Amplitude



Bloco Limonita

20000m



Track semi-automático
Arenito K ("Roncador")
Mapa de Amplitude

Considerações Finais

- Uma semana após o 3º ciclo da OPP, a SAG/ANP promove o Seminário Técnico de Avaliação Geoeconômica para apresentar aos investidores informações sobre 17 blocos, inéditos, localizados nas Bacias de Campos e Santos, já aprovados pelo CNPE. O evento tem como objetivo fornecer dados iniciais sobre interpretação de subsuperfície e ressaltar características relevantes do potencial das áreas. Após o seminário, a SAG permanecerá disponível para reuniões individuais com foco em discussões técnicas baseadas em dados públicos, destacando o caráter estratégico da resolução de nominação (837/2021), que permite aos investidores participação no processo, resguardando-se a confidencialidade;
- Nesse contexto, essa apresentação tratou de dois projetos na Bacia de Campos denominados Calcita e Hematita. O primeiro resultou na indicação de três blocos (Azurita, Calcita e Dolomita) e o segundo resultou na indicação de quatro blocos (Hematita, Siderita, Magnetita e Limonita). São blocos de grande extensão areal relativa e estão circundando regiões tradicionalmente produtoras de hidrocarbonetos, assim como blocos exploratórios que vem reportando relevantes descobertas;

Considerações Finais

- Como exemplo, destaca-se o bloco B-M-C33, Projeto Raia, cujos recursos prospectivos podem superar 1 bilhão de BOE, representando potencialmente até 15% da demanda de gás do Brasil no final dessa década. O Bloco Água Marinha registrou notificação de descoberta pelo poço 1-BRSA-1401DA-RJS em outubro de 2025. No Bloco B-M-C541, a perfuração do poço 1-TOT-3-RJS resultou em notificação de descoberta de gás, em uma região de fronteira exploratória;
- Além disso, cumpre ressaltar que ao longo de aproximadamente quatro décadas a Bacia de Campos destacou-se como a principal produtora nacional, impulsionada especialmente pelas descobertas em arenitos turbidíticos do cretáceo ao mioceno, além dos carbonatos albianos do play pós-sal. Esse cenário mudou a partir de 2017, quando a Bacia de Santos assumiu a liderança devido a exploração de campos gigantes no play pré-sal, o que também resultou em avanços relevantes na exploração na própria Bacia de Campos, incluindo recentes descobertas no aptiano;

Considerações Finais

- Em relação aos blocos exploratórios, observa-se progressos significativos nos últimos nove anos. A região de fronteira exploratória situada além da borda leste do polígono do pré-sal apresentou seus primeiros resultados positivos de descobertas de hidrocarbonetos, confirmado uma nova cozinha de geração. Adicionalmente, no interior do polígono da Bacia de Campos, três novos blocos (Itaimbezinho, Jaspe e Citrino) foram arrematados no leilão do terceiro ciclo da oferta permanente sob regime de partilha de produção (OPP), realizado em 22/10/2025;
- Quanto ao objeto deste seminário técnico, os blocos Hematita (1653 km^2), Magnetita (2008 km^2), Limonita (1993 km^2) e Siderita (1599 km^2), totalizam 7254 km^2 de área a ser disponibilizada. Os blocos Hematita e Siderita localizam-se nos setores SC-AP1; o bloco Magnetita, apenas no setor SC-AP2; e o bloco Limonita, no setor SC-AR2. Os quatro blocos apresentam oportunidades exploratórias disseminadas geograficamente, distribuídos em diversos níveis estratigráficos, tendo sido estimados volumes totais *insitu* riscados na ordem de 9 bilhões de barris de óleo equivalente;

Considerações Finais

- Os blocos Calcita (345 km^2), Dolomita (2.948 km^2) e Azurita (2.913 km^2), totalizam 6.206 km^2 de área a ser disponibilizada. Os blocos Calcita e Azurita localizam-se nos setores SC-AP4; e o bloco Dolomita, apenas no setor SC-AP5. Os três blocos apresentam oportunidades exploratórias disseminadas geograficamente, distribuídos em diversos níveis estratigráficos, tendo sido estimados volumes totais *in situ* riscados na ordem de 12 bilhões de barris de óleo equivalente. O bloco calcita inclui o campo de xerelete.



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