



anp
Agência Nacional
do Petróleo,
Gás Natural e Biocombustíveis

Avaliação Geológica dos Blocos Saturno, Titã e Pau-Brasil

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Roteiro

1

Introdução

2

Avaliação Geológica de Saturno, Titã e Pau-Brasil

3

Considerações Finais

Roteiro

1

Introdução

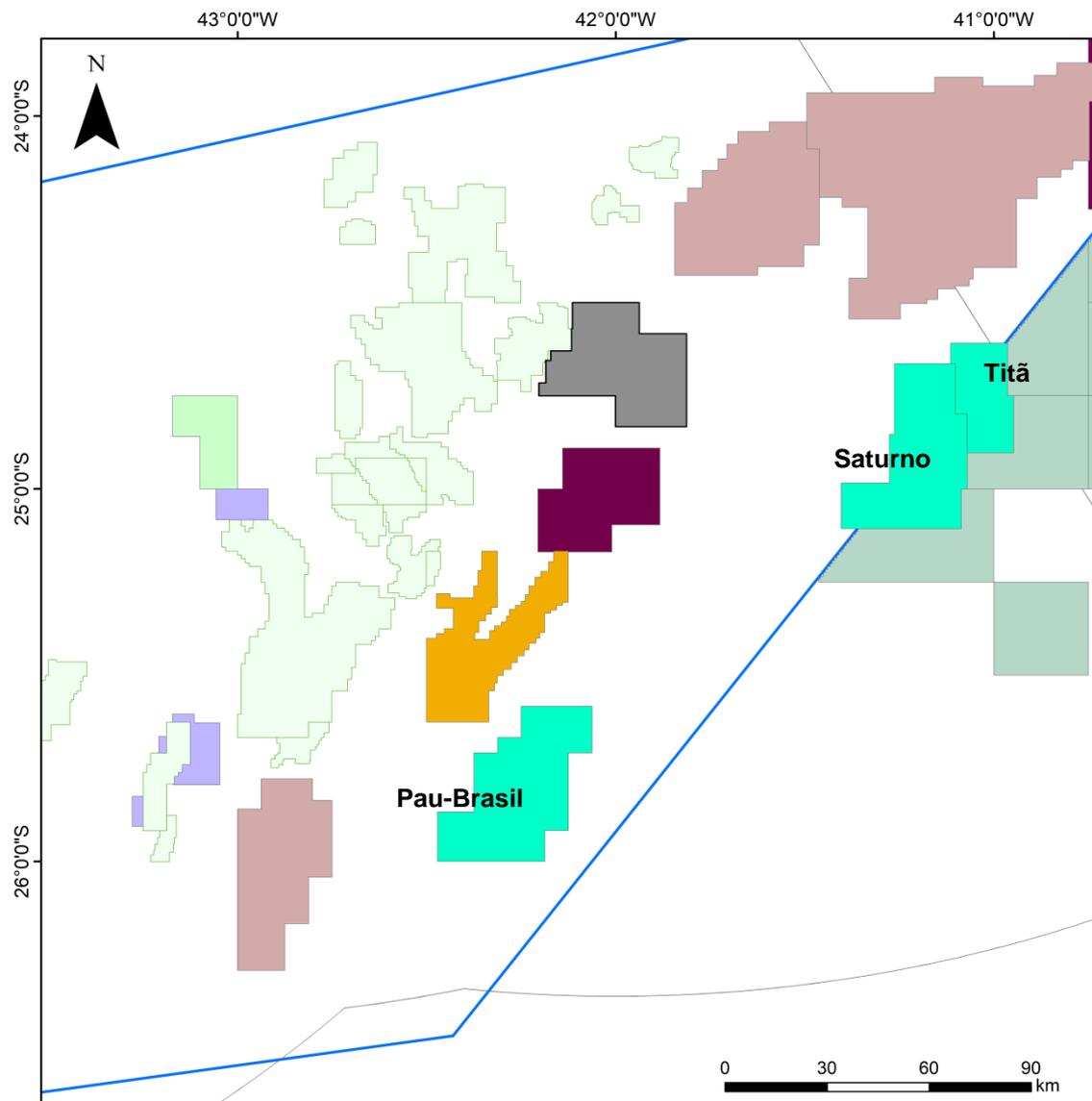
2

Avaliação Geológica de Saturno, Titã e Pau-Brasil

3

Considerações Finais

Área em Oferta

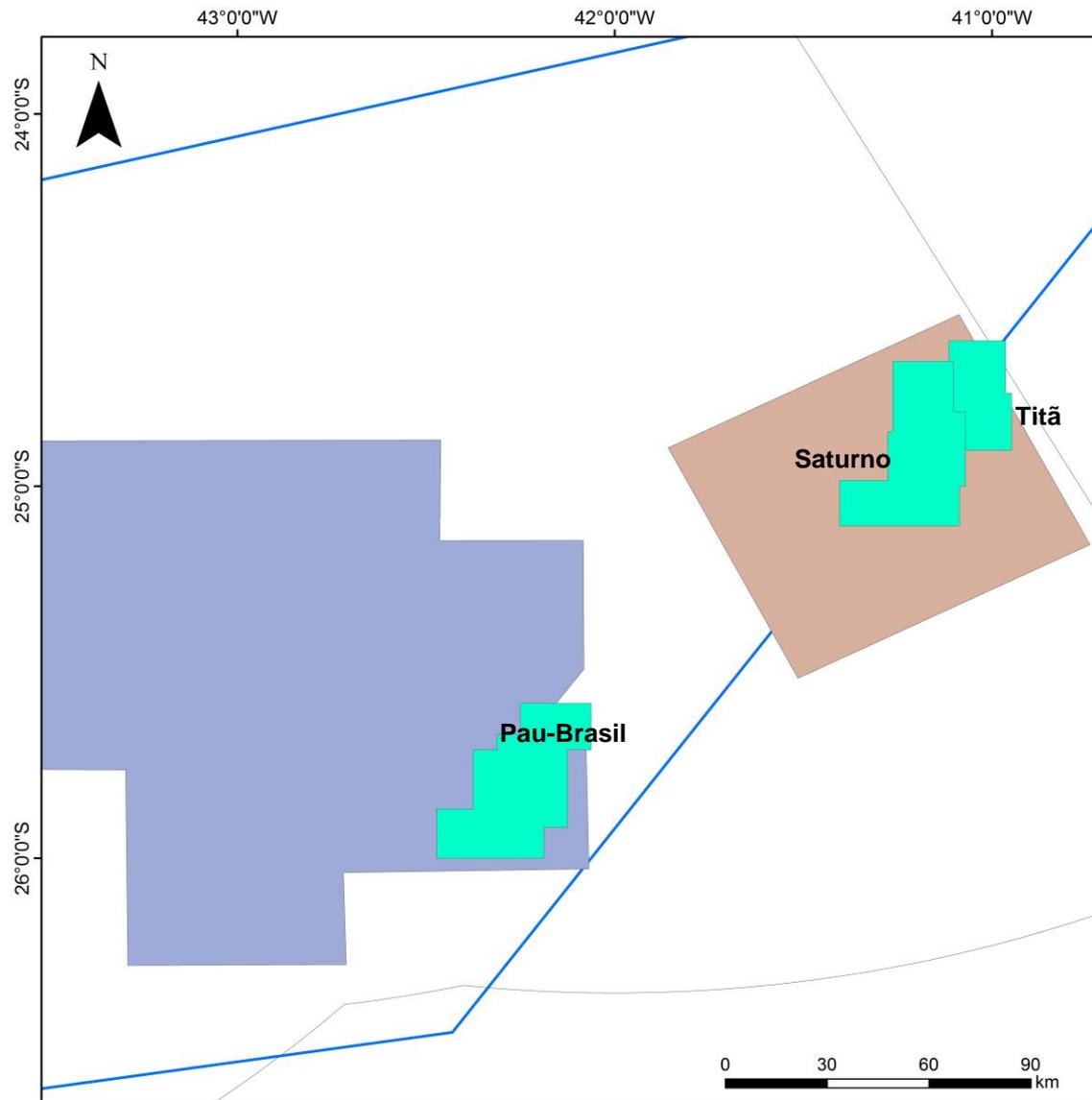


Legenda

- Bloco em Oferta R5 Partilha
 - Campo em Desenv. ou Produção
 - Polígono do Pré-sal
- Bloco Concessão**
- Rodada 3
 - Rodada 7
 - Bloco arrematado R15
- Bloco Partilha**
- Rodada 1
 - Rodada 2
 - Rodada 3
 - Rodada 4

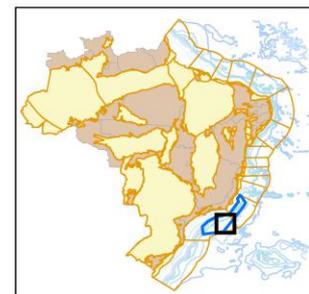


Dados Utilizados

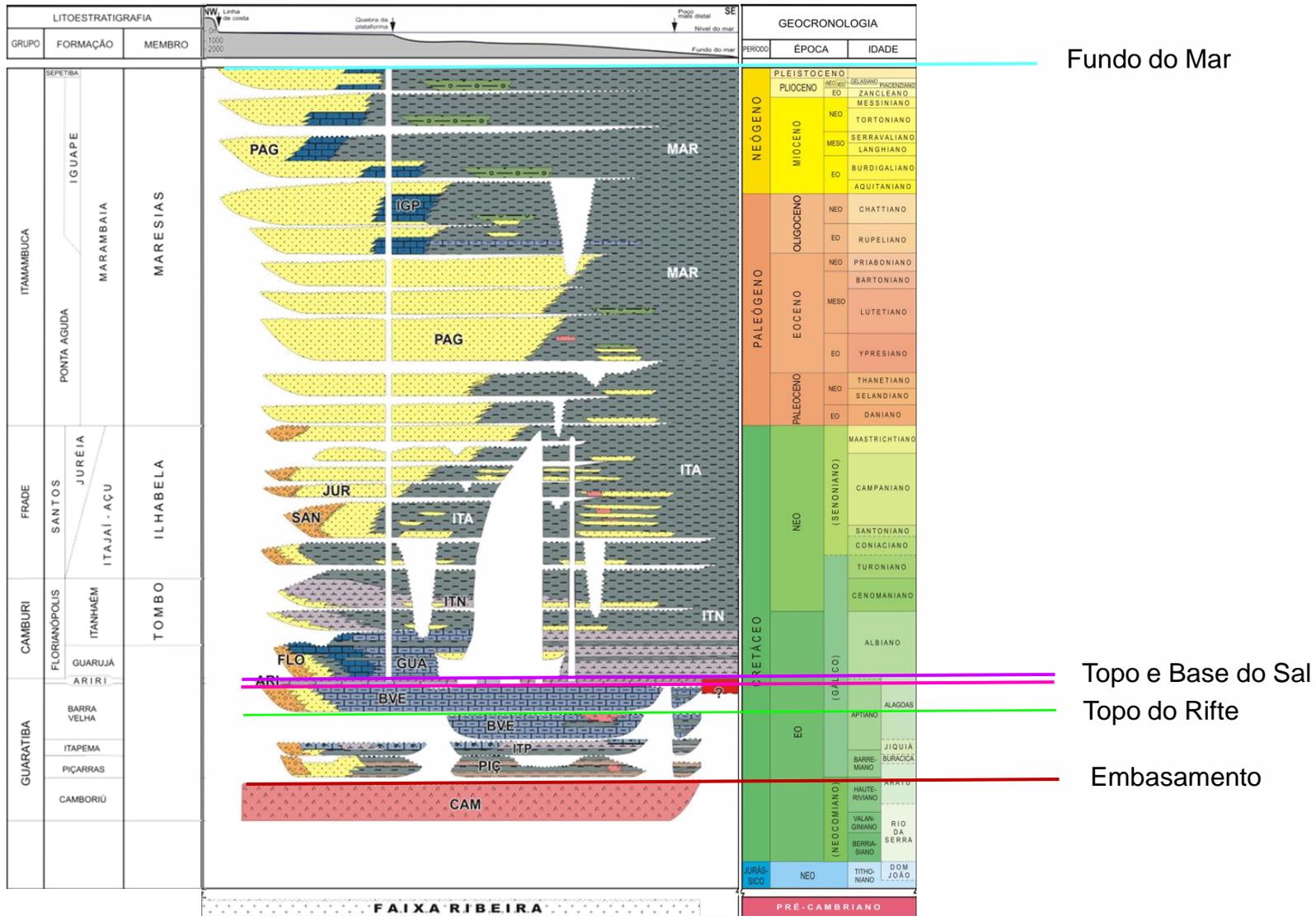


Legenda

-  Bloco em Oferta R5 Partilha
-  Polígono do Pré-sal
-  Constellation
-  0264_BM_SANTOS_FASE_VII



Avaliação Geológica



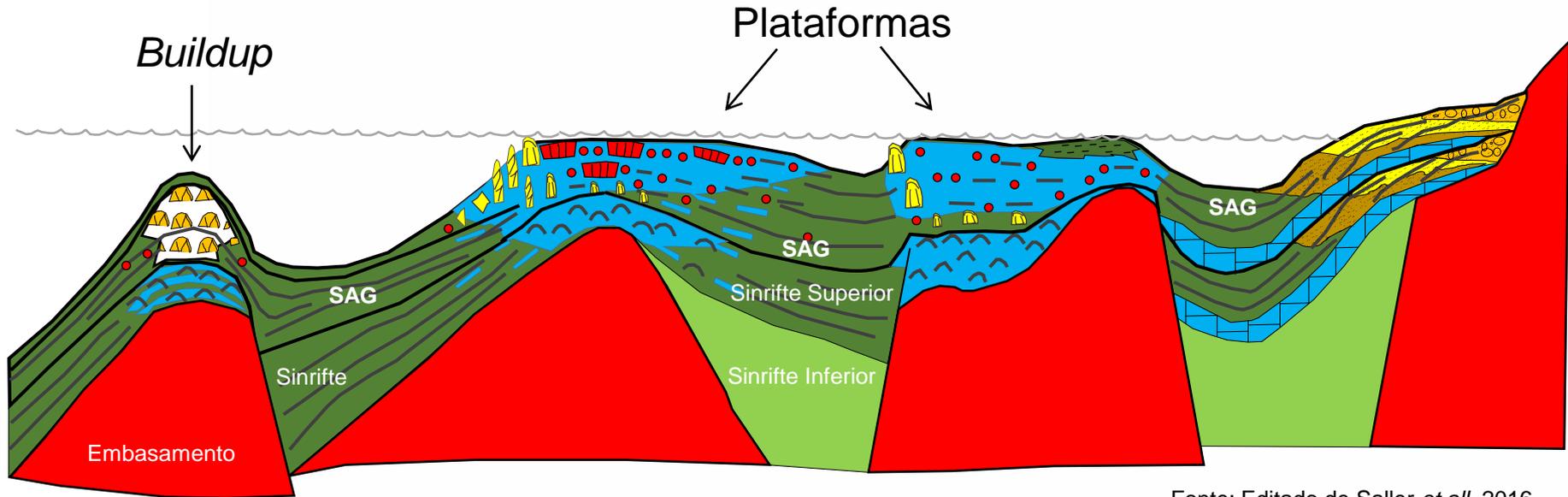
Fundo do Mar

Topo e Base do Sal

Topo do Rife

Embasamento

Modelo Depositional



Fonte: Editado de Saller *et al*, 2016.

Domos com ramificações microbiais (*chert boundstone*)

Estrutura microbiana arbustiva

Folhelhos (comumente ricos em matéria orgânica)

Intraclastos esferulíticos (*packstone - grainstone*)

Wackestone - *packstone* esferulíticos

Carbonatos e margas argilosas com esferulitos

Packstone - grainstone com Conchas de moluscos

Carbonatos e margas argilosas

Lama planar (Dolomita)

Carbonato micrítico (*mudstone - wackestone*)

Carbonato transgressivo

Siltito

Arenito

Conglomerado

Embasamento

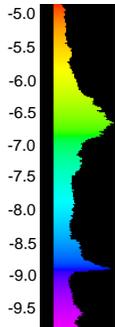
Roteiro

- 1 Introdução
- 2 Avaliação Geológica de Saturno, Titã e Pau-Brasil
- 3 Considerações Finais

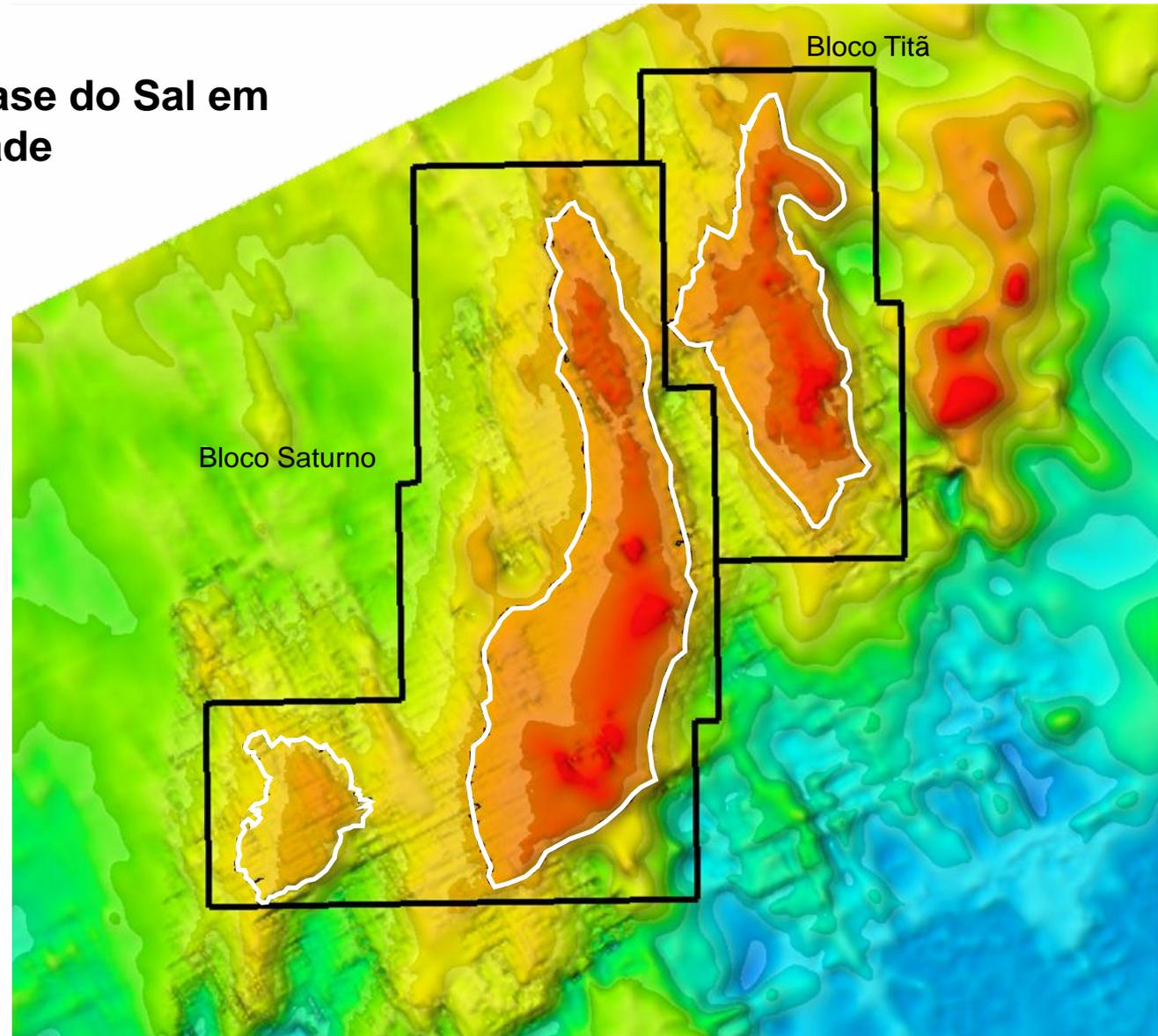
Blocos Saturno e Titã

Mapa Estrutural da Base do Sal em Profundidade

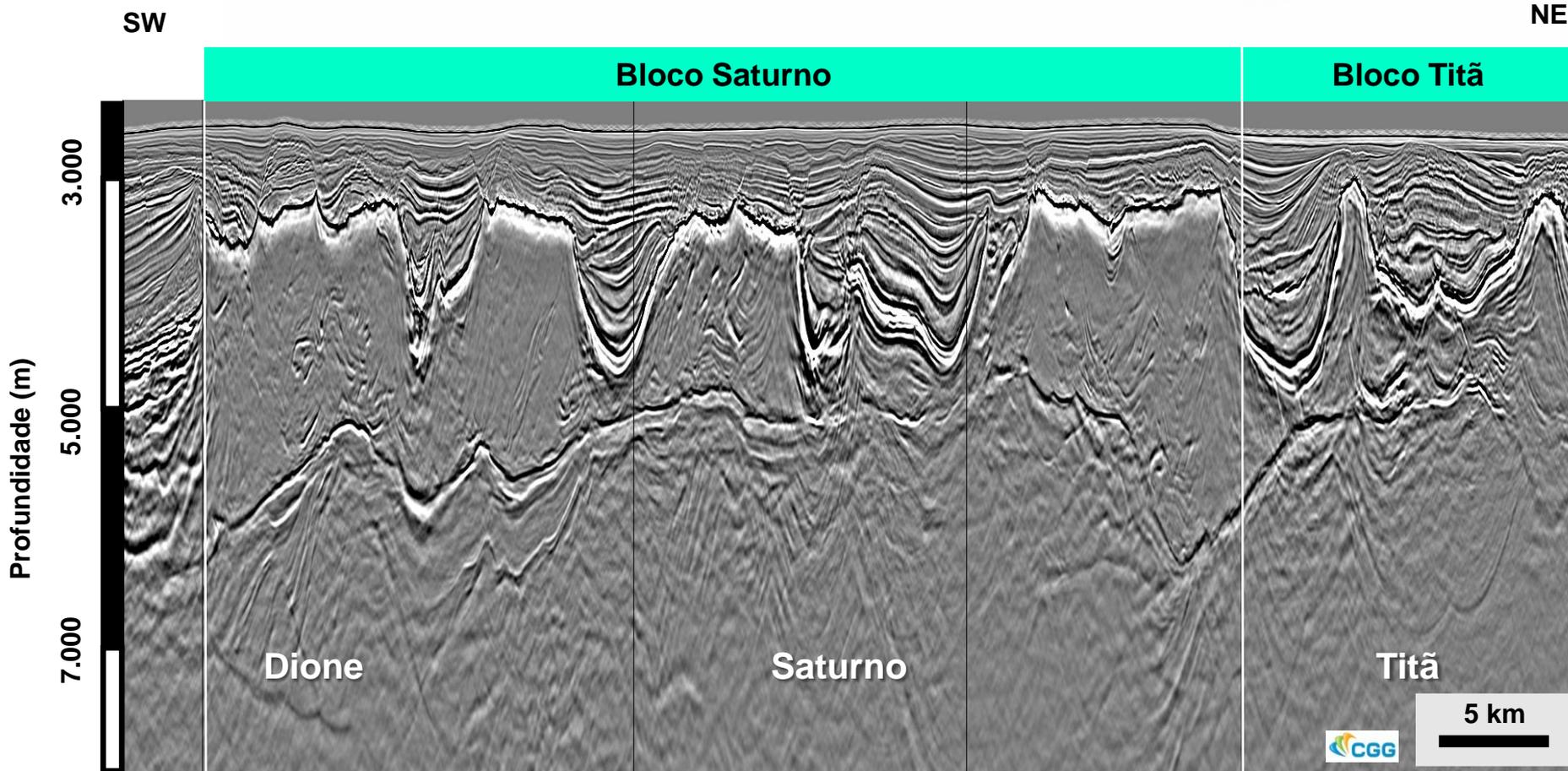
Profundidade (km)



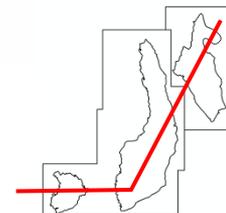
25 km



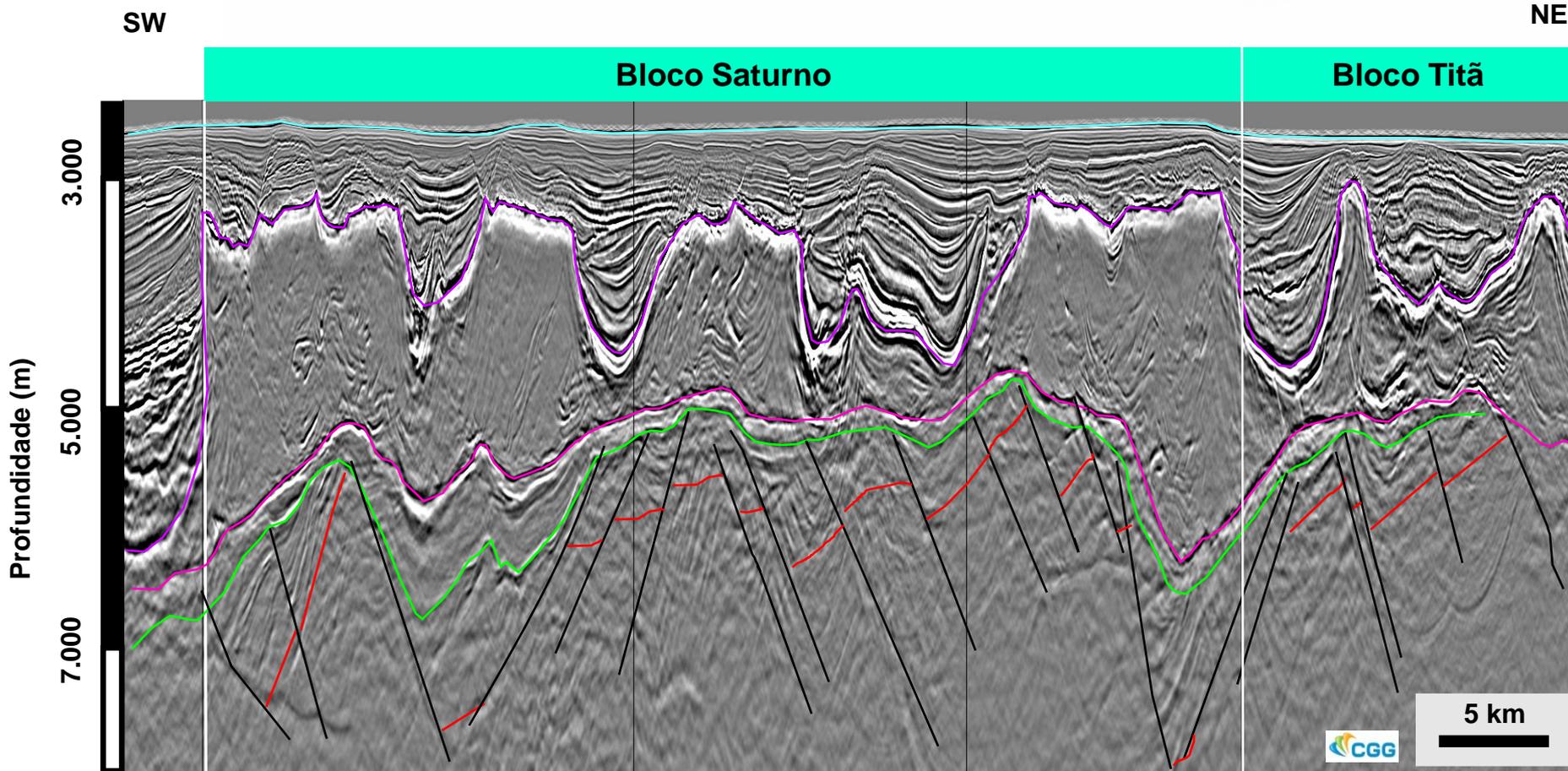
Blocos Saturno e Titã



Linha arbitrária – Levantamento 0264_PSDM_D_RTM_FULL_FLT_GAIN_FIN_AP – Cortesia CGG

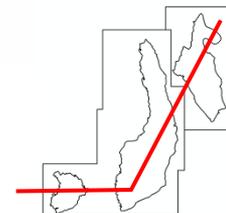


Blocos Saturno e Titã

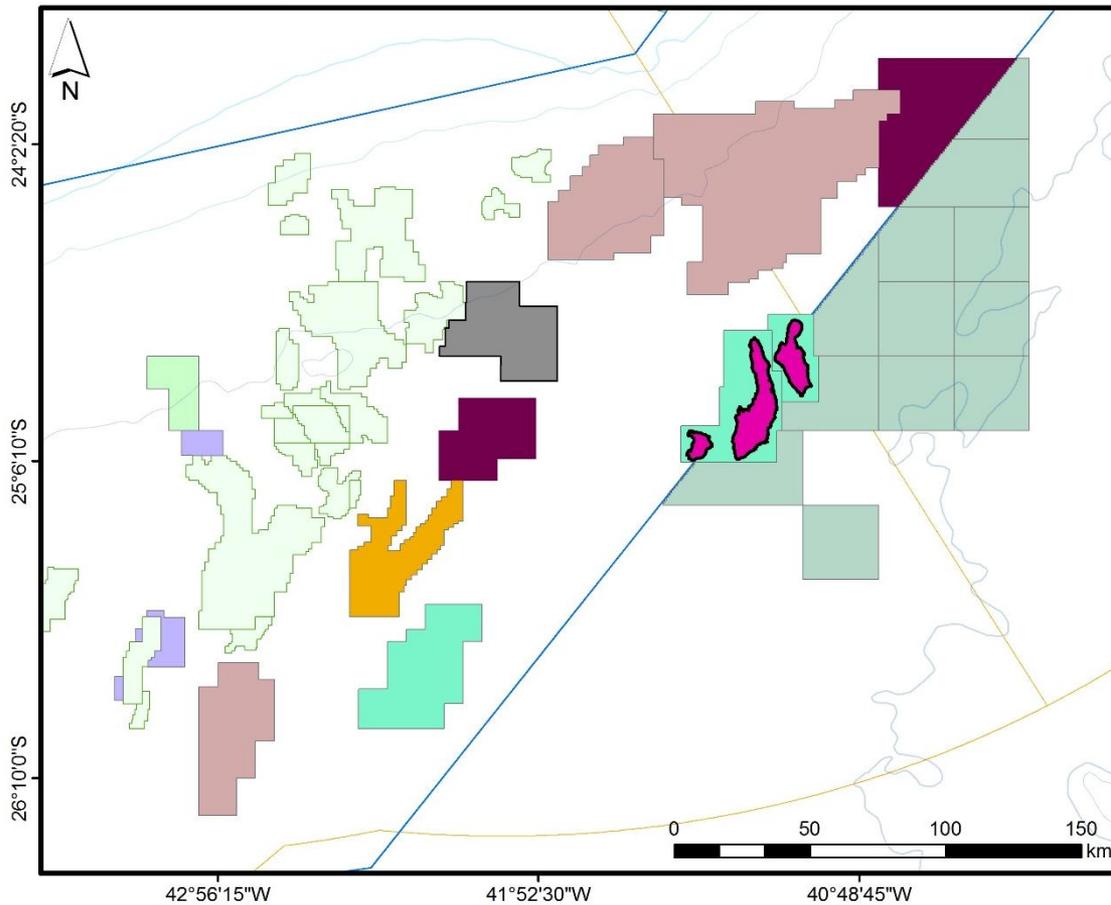


Linha arbitrária – Levantamento 0264_PSDM_D_RTM_FULL_FLT_GAIN_FIN_AP – Cortesia CGG

- | | | | | | |
|--|--------------|--|---------------|--|-------------|
| | Fundo do Mar | | Topo do Rifte | | Embasamento |
| | Topo do Sal | | Base do Sal | | Falha |

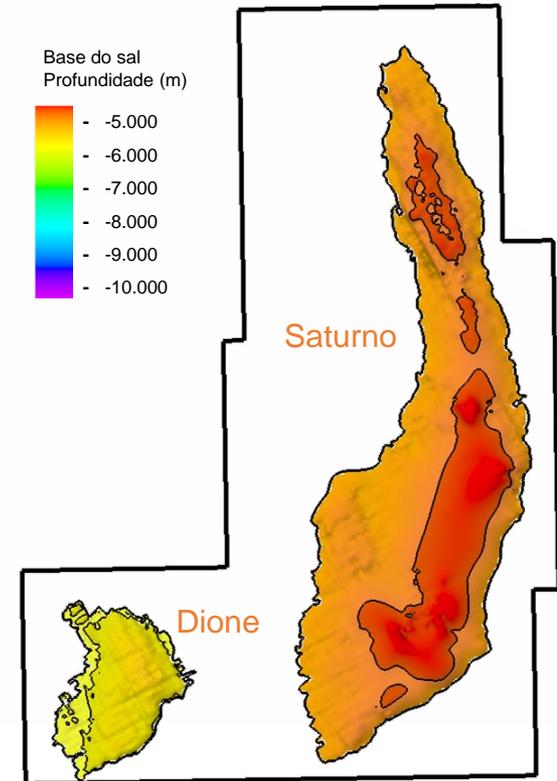
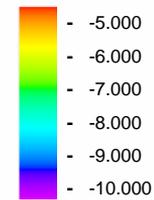


Bloco Saturno



Bloco Saturno

Base do sal
Profundidade (m)

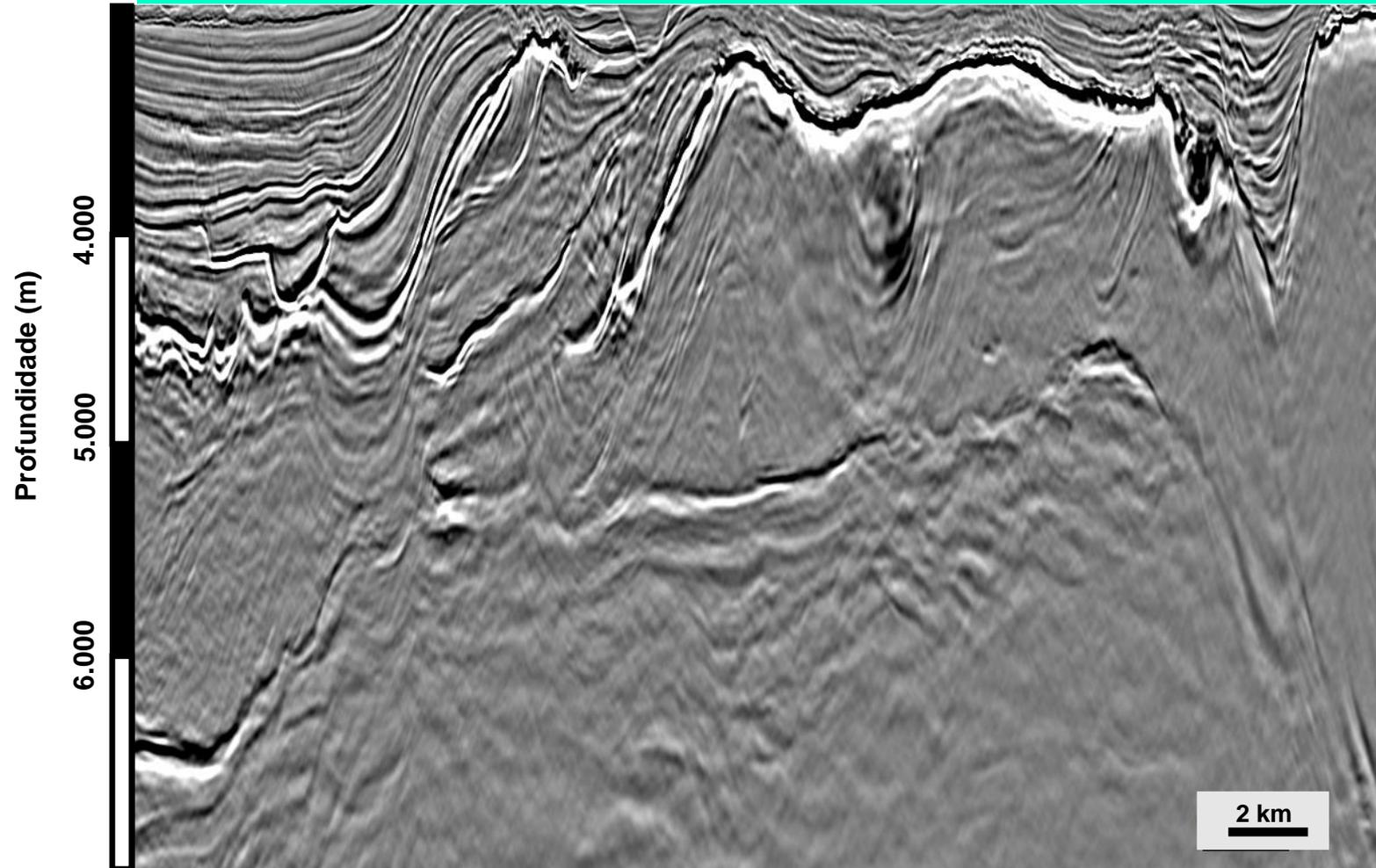


Bloco Saturno

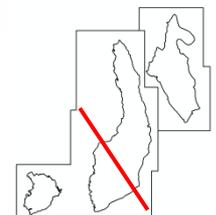
NW

SE

Bloco Saturno



Inline 6423 – Levantamento 0264_PSDM_D_RTM_FULL_FLT_GAIN_FIN_AP – Cortesia CGG

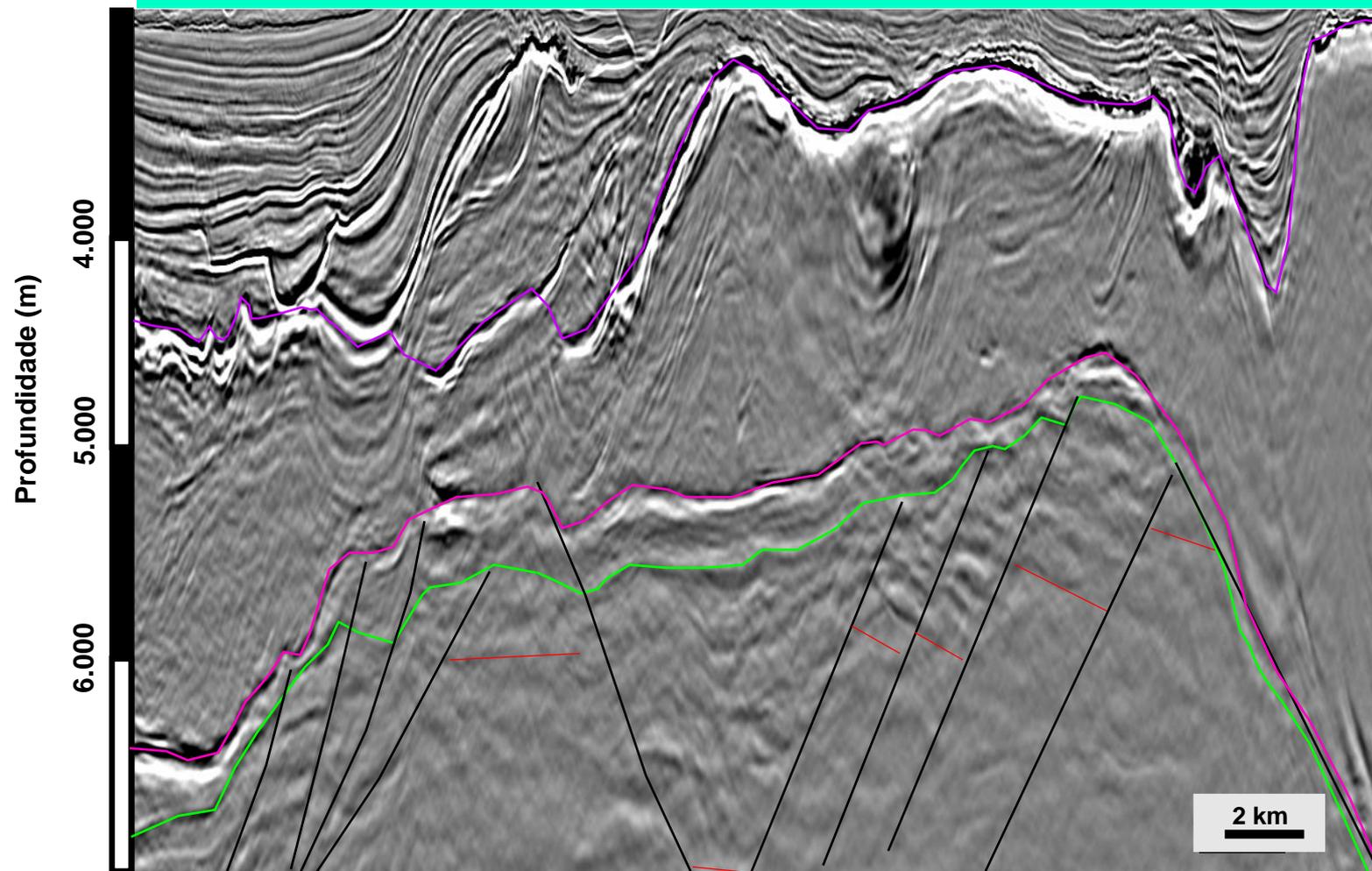


Bloco Saturno

NW

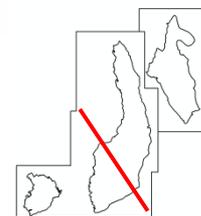
SE

Bloco Saturno



- Topo do Sal
- Base do Sal
- Topo do Rife
- Embasamento
- / Falha

Inline 6423 – Levantamento 0264_PSDM_D_RTM_FULL_FLT_GAIN_FIN_AP – Cortesia CGG

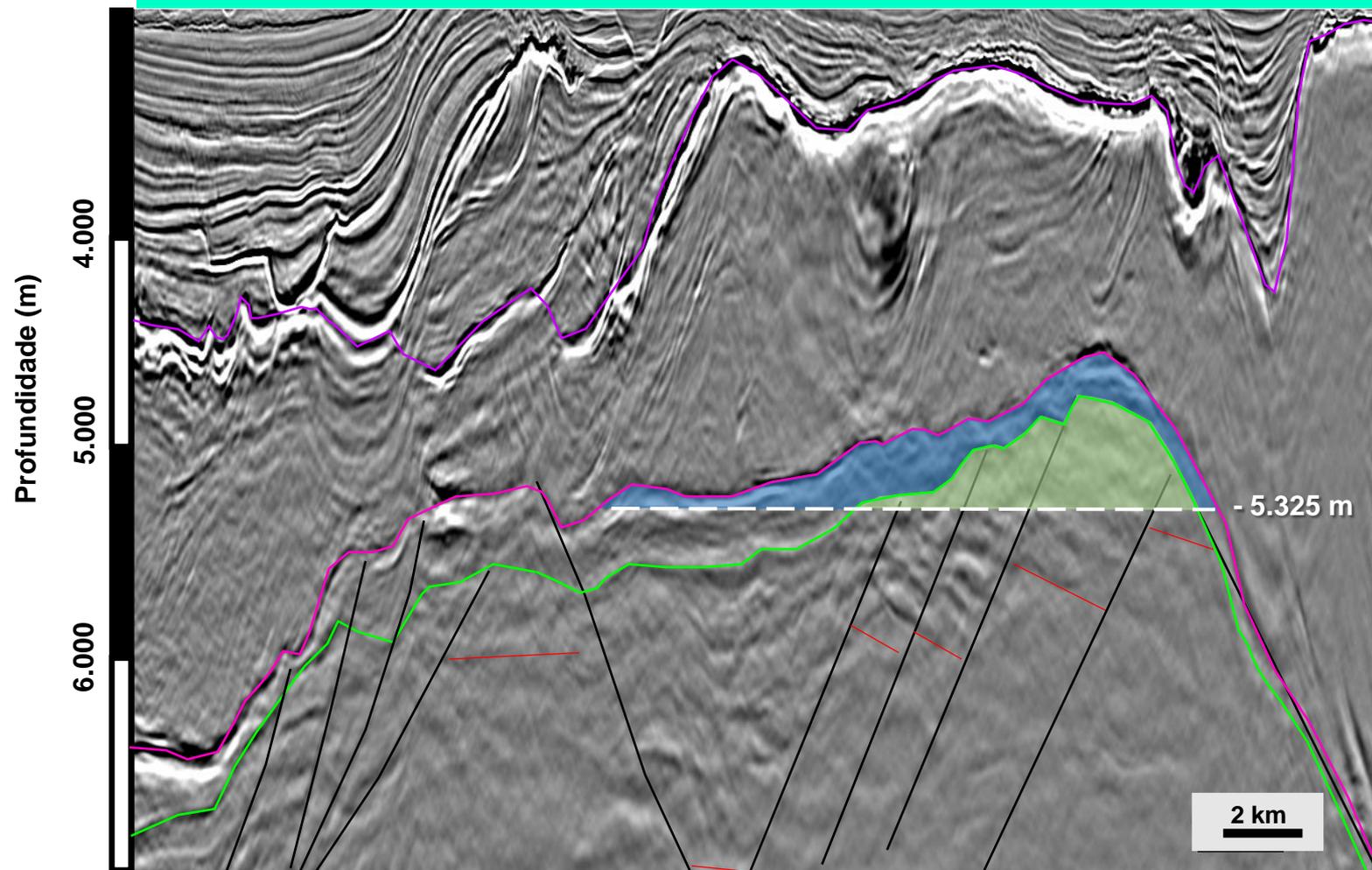


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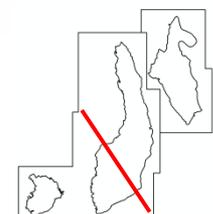
NW

SE

Bloco Saturno



- Topo do Sal
- Base do Sal
- Topo do Rifte
- Embasamento
- / Falha



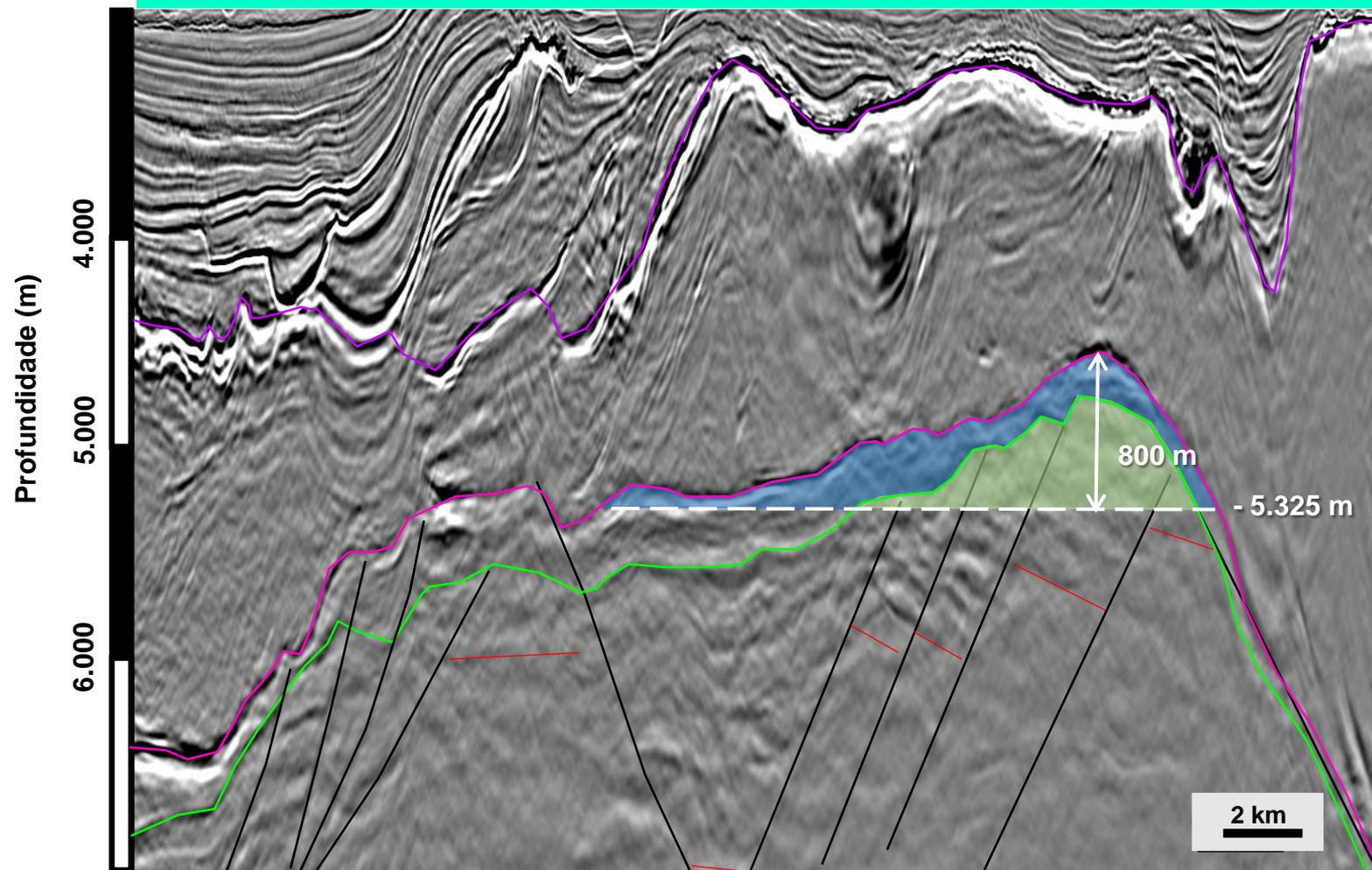
Inline 6423 – Levantamento 0264_PSDM_D_RTM_FULL_FLT_GAIN_FIN_AP – Cortesia CGG

Bloco Saturno

NW

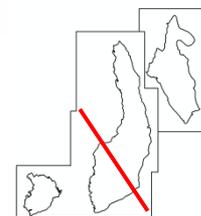
SE

Bloco Saturno



- Topo do Sal
- Base do Sal
- Topo do Rifte
- Embasamento
- / Falha

Inline 6423 – Levantamento 0264_PSDM_D_RTM_FULL_FLT_GAIN_FIN_AP – Cortesia CGG

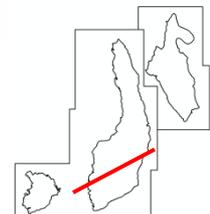
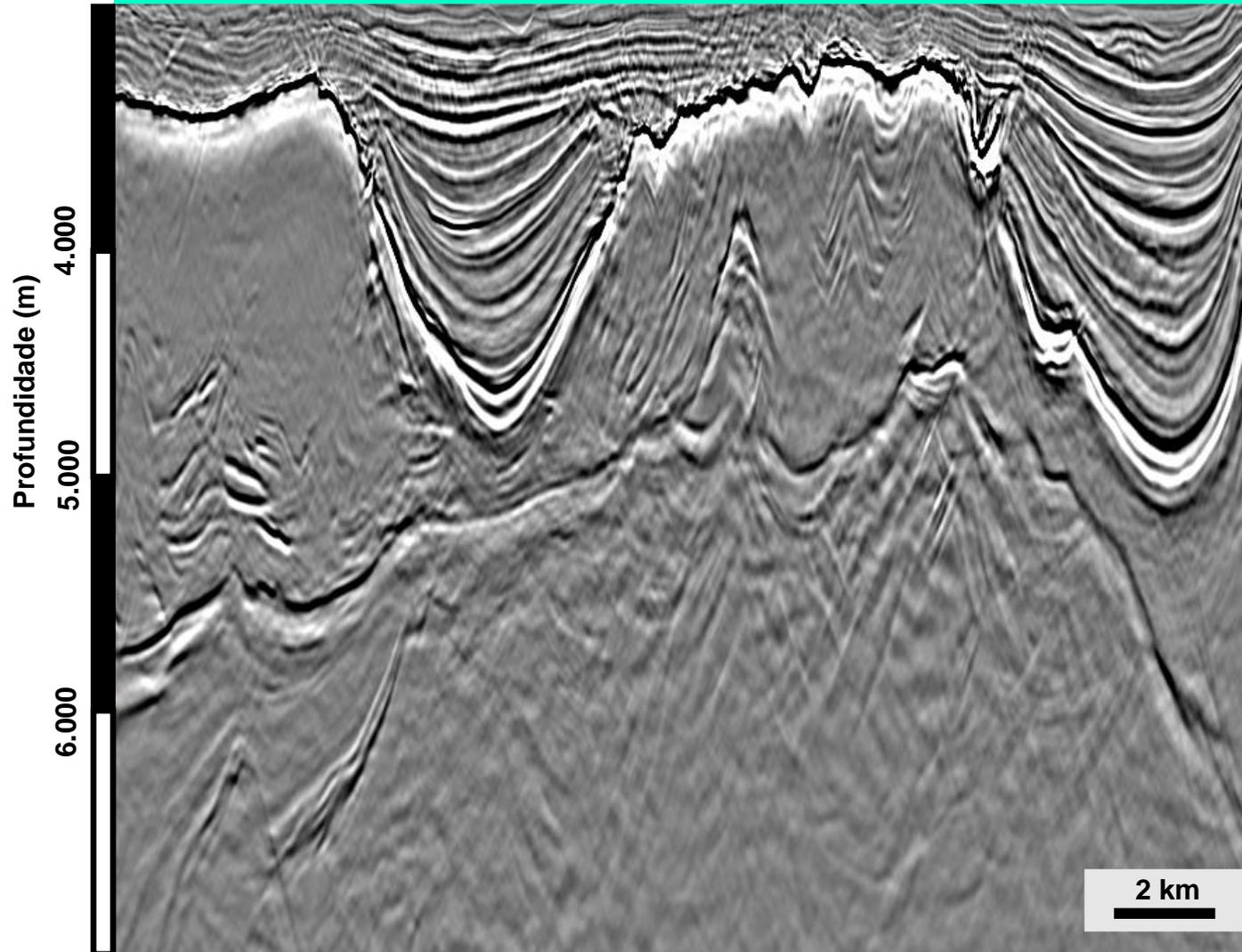


Bloco Saturno

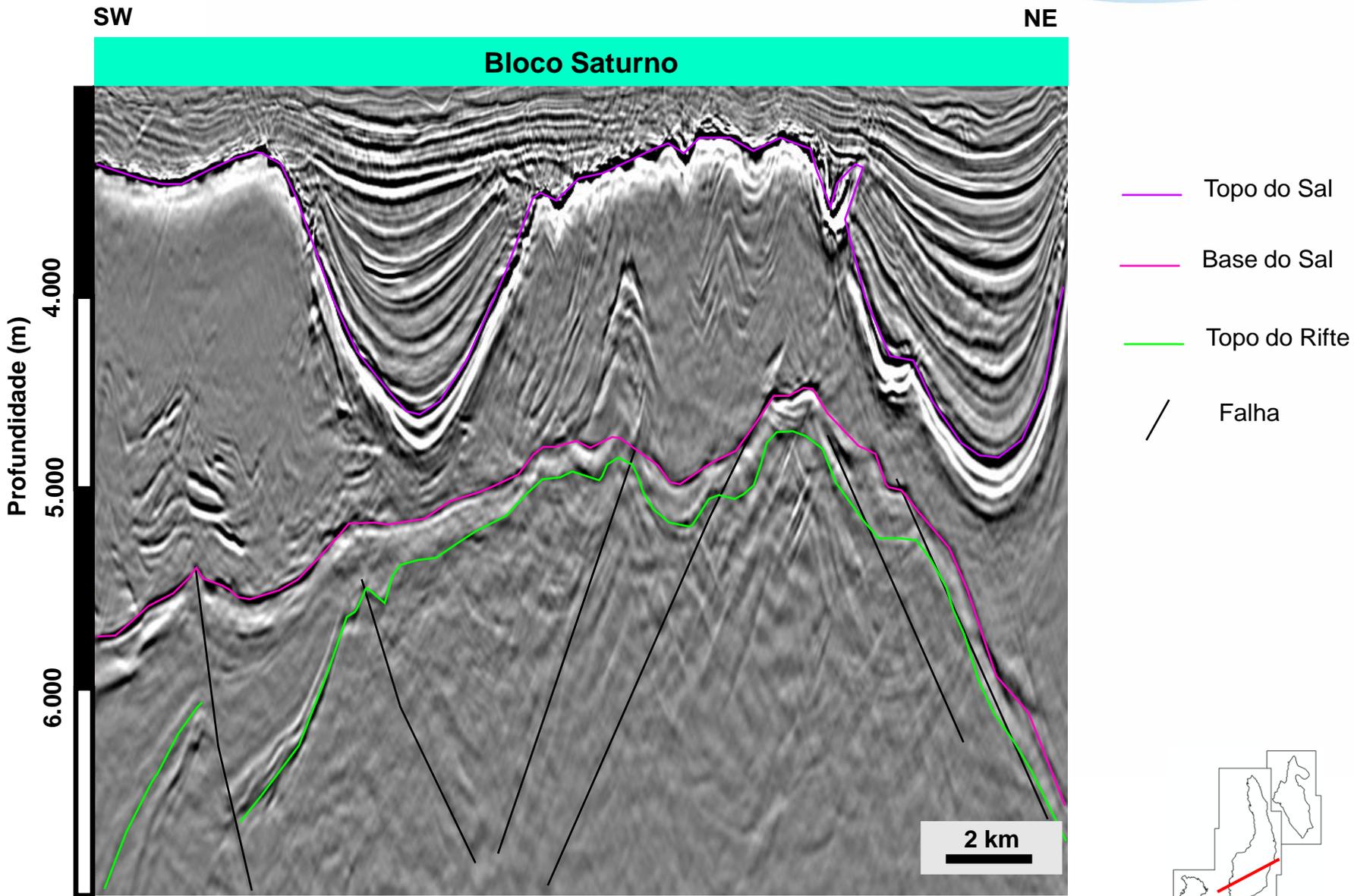
SW

NE

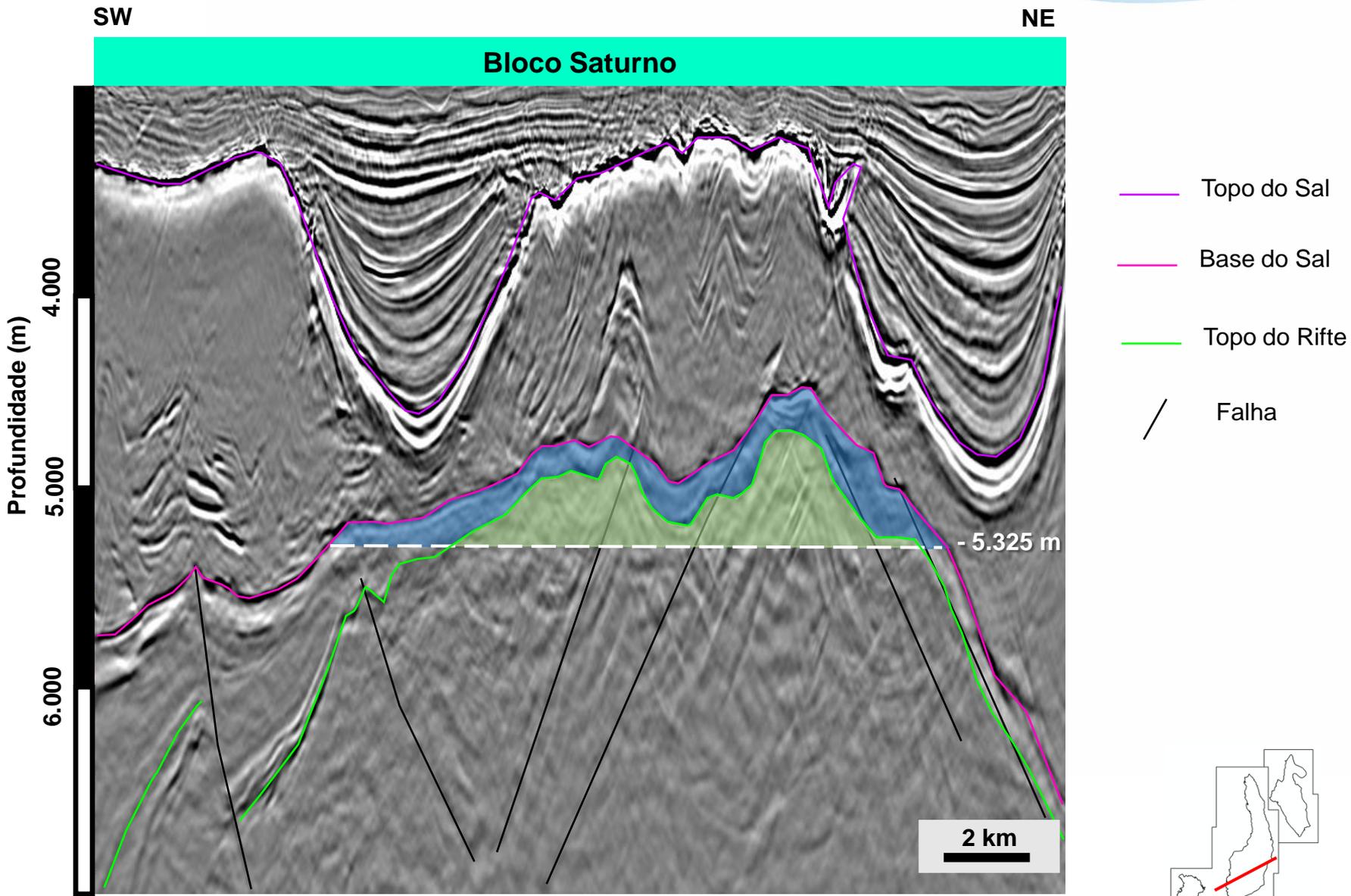
Bloco Saturno



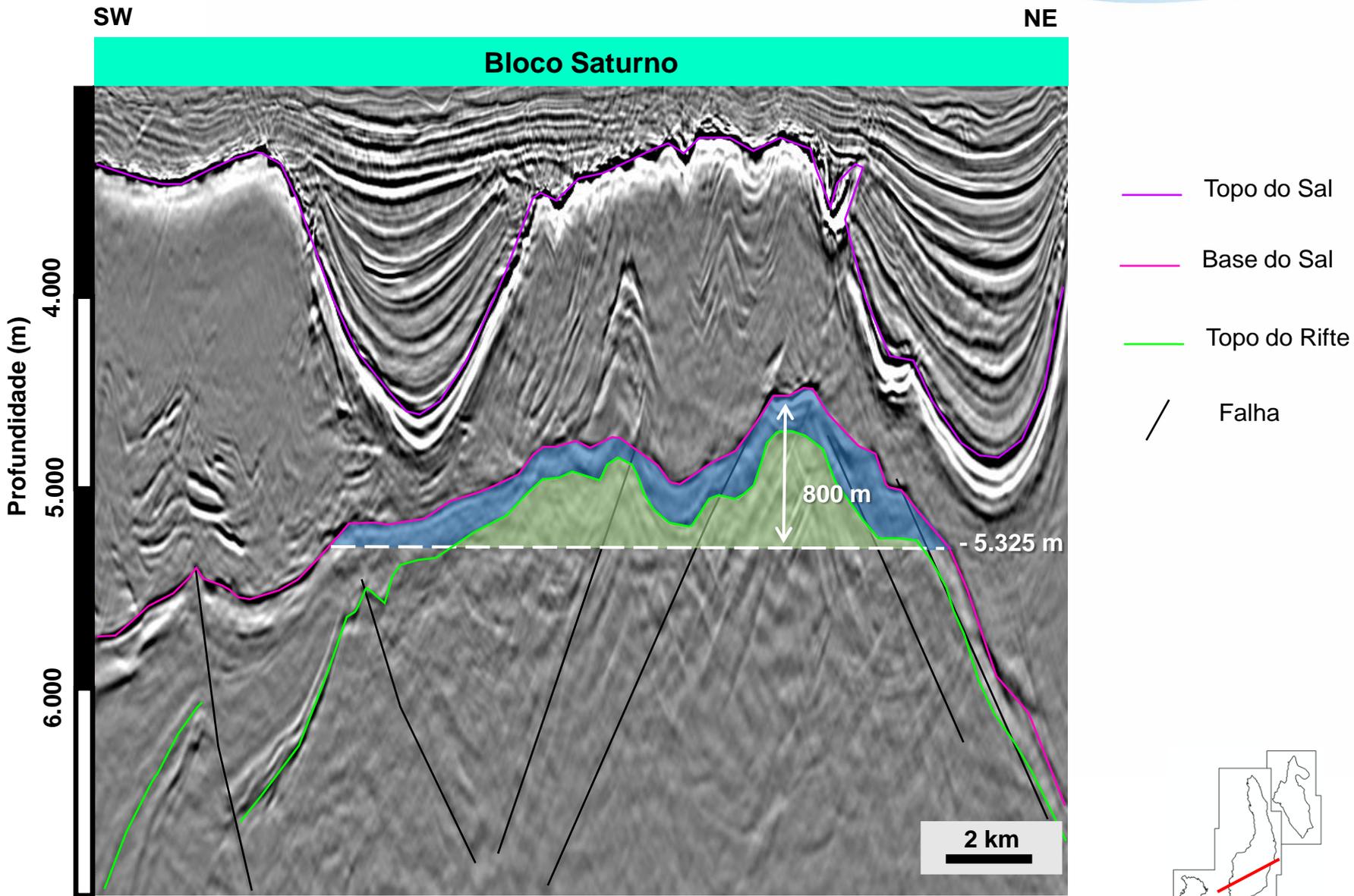
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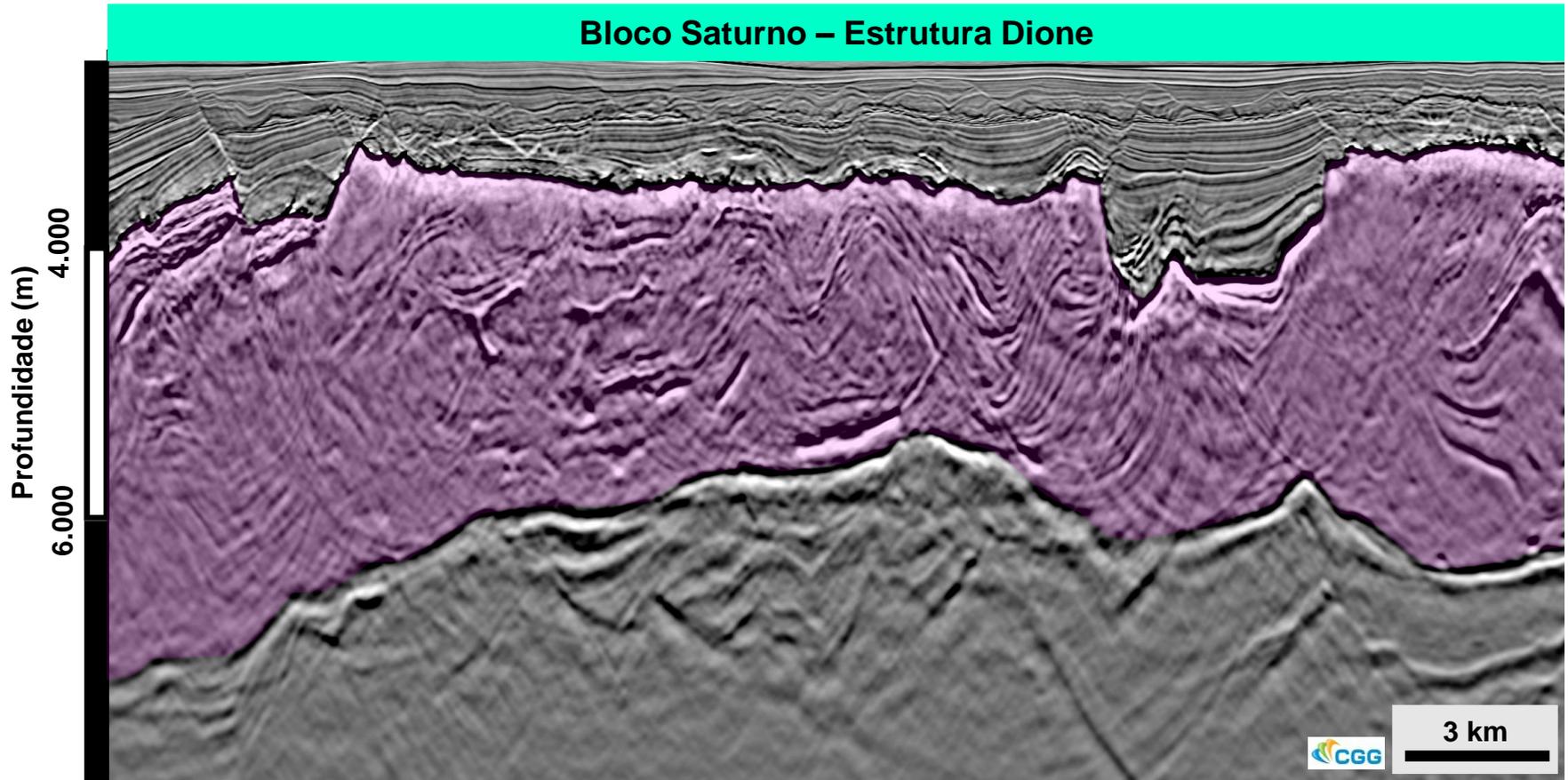
Bloco Saturno



Bloco Saturno

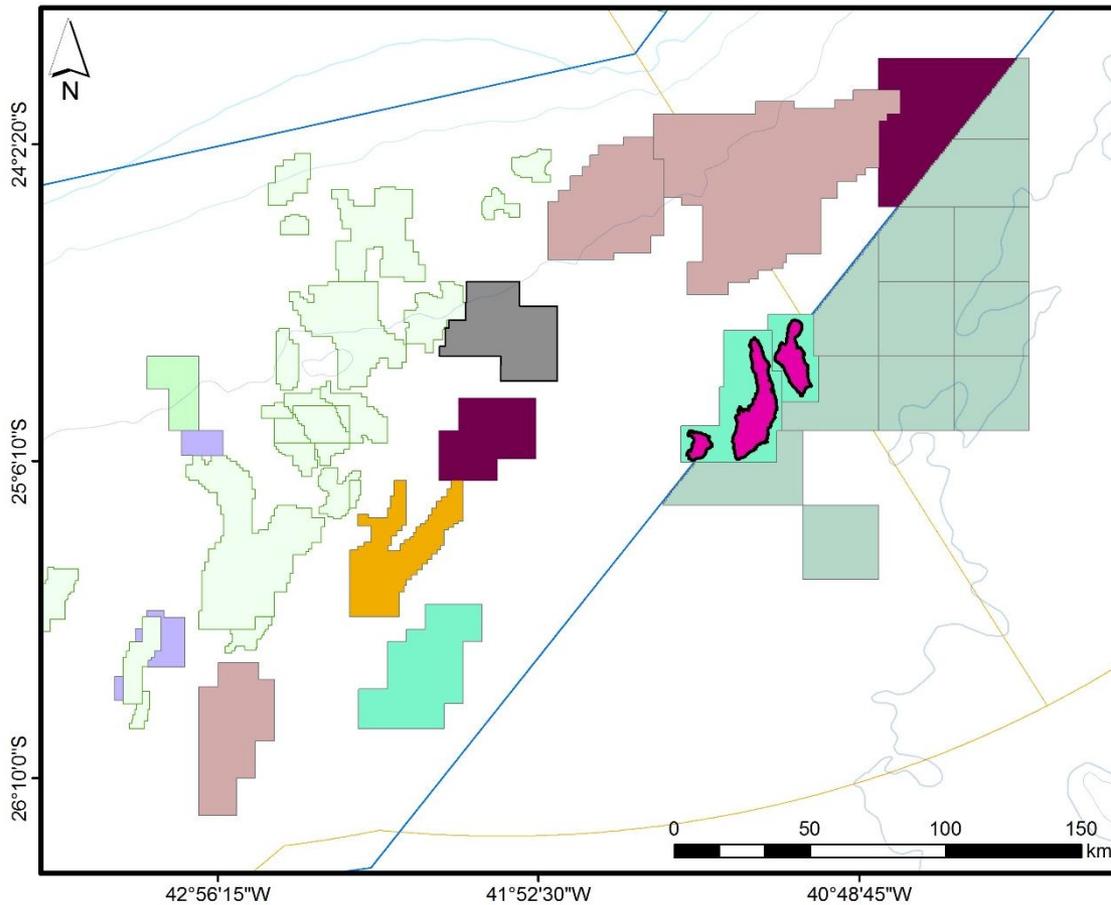


Bloco Saturno



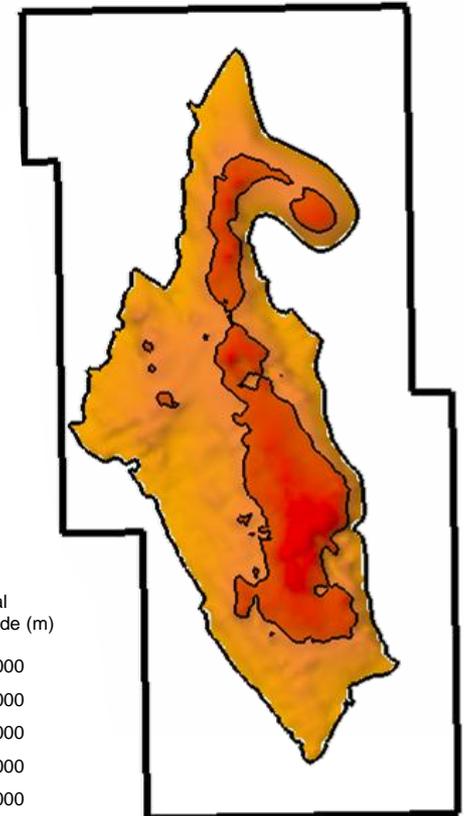
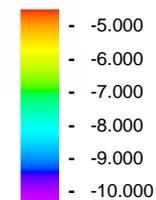
Linha arbitrária – Levantamento 0264_BM_SANTOS_FASE_VII – Cortesia CGG

Bloco Titã

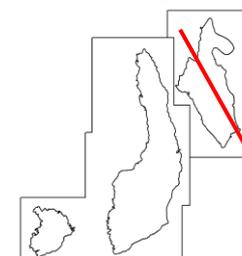
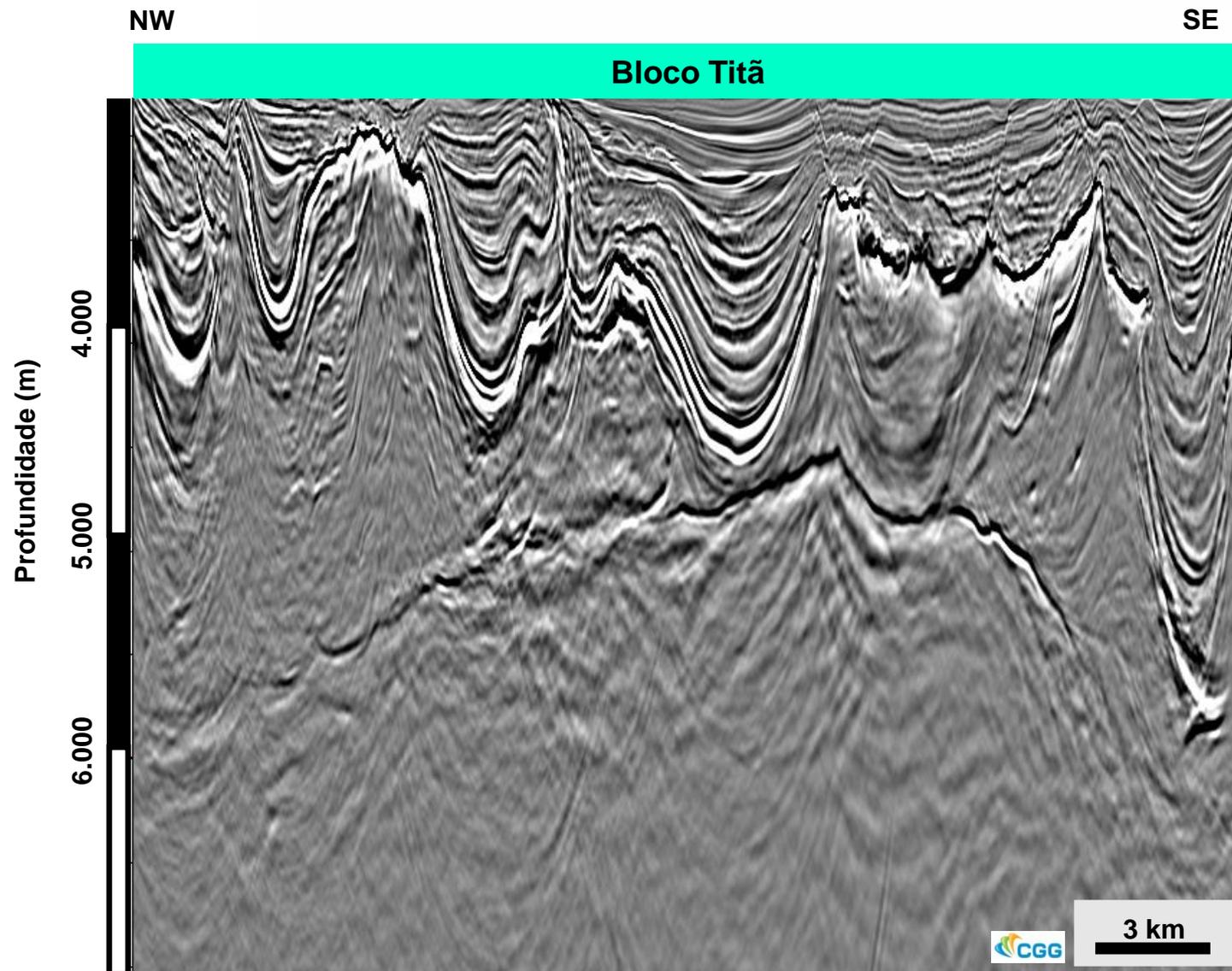


Bloco Titã

Base do sal
Profundidade (m)



Bloco Titã

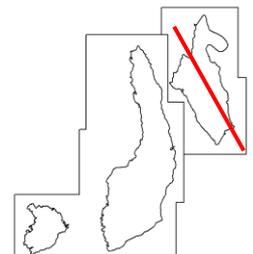
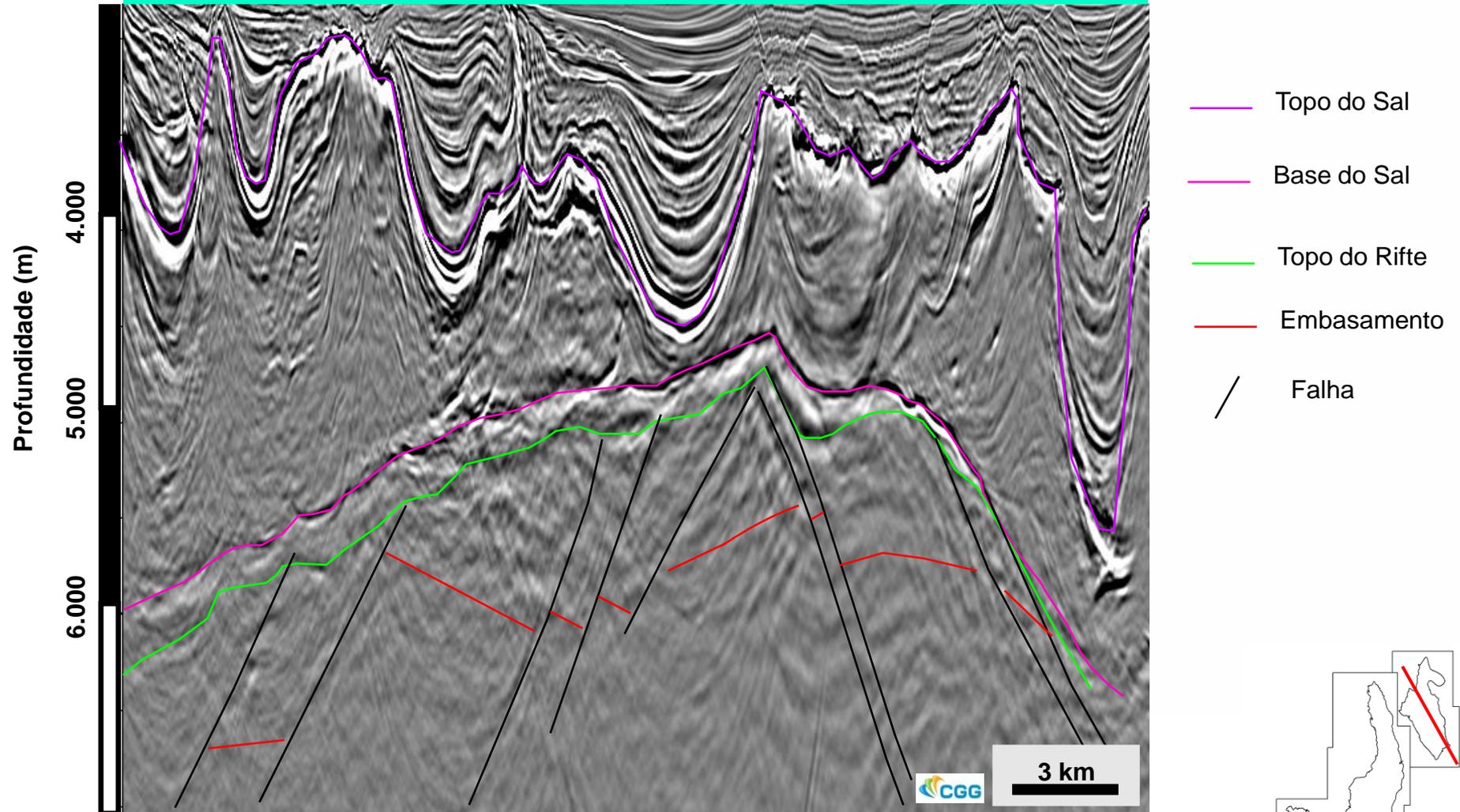


Bloco Titã

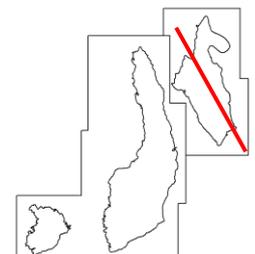
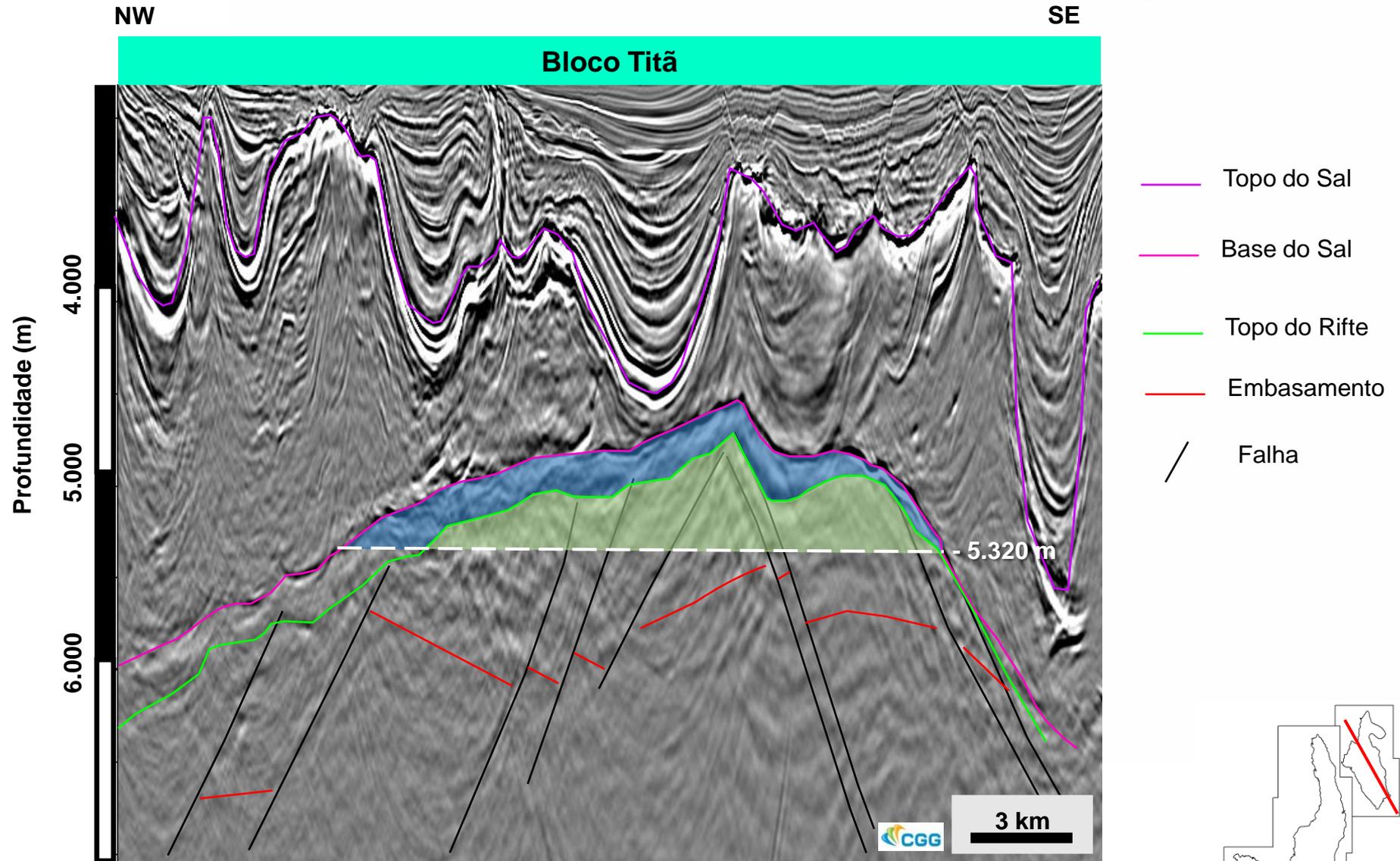
NW

SE

Bloco Titã



Bloco Titã

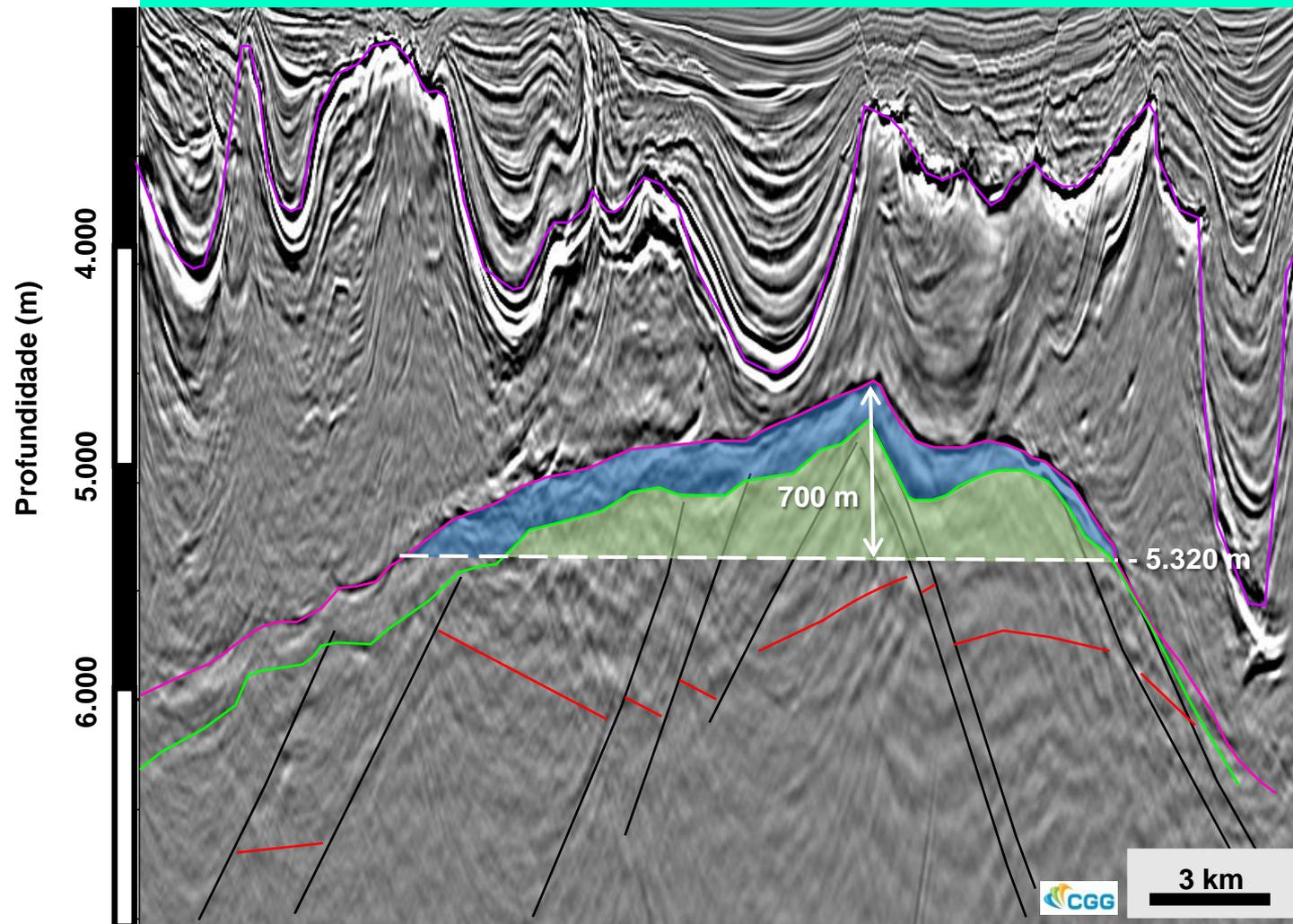


Bloco Titã

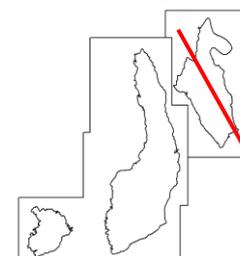
NW

SE

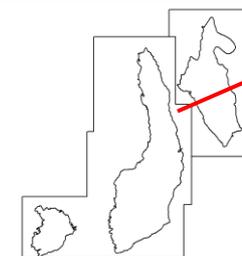
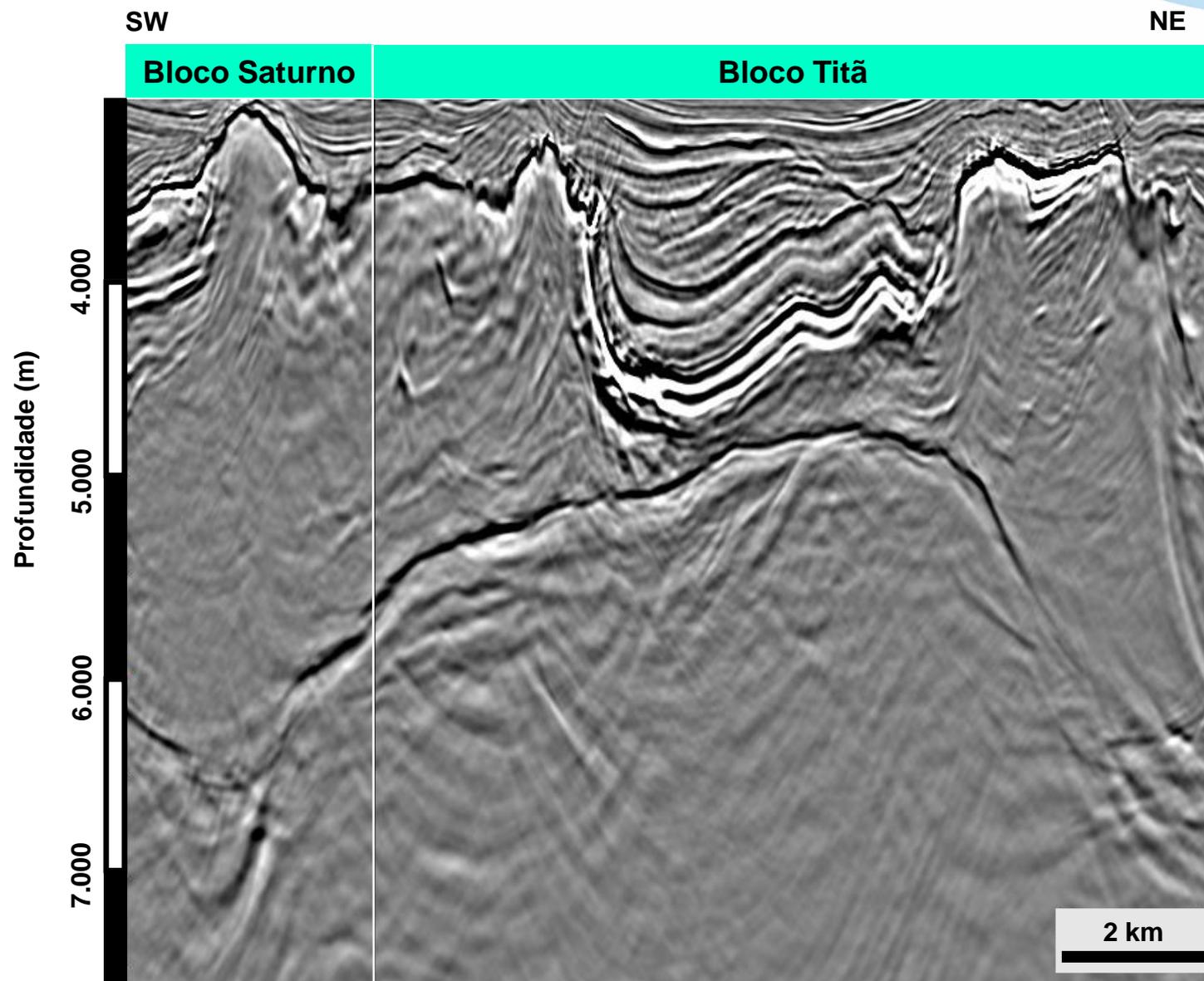
Bloco Titã



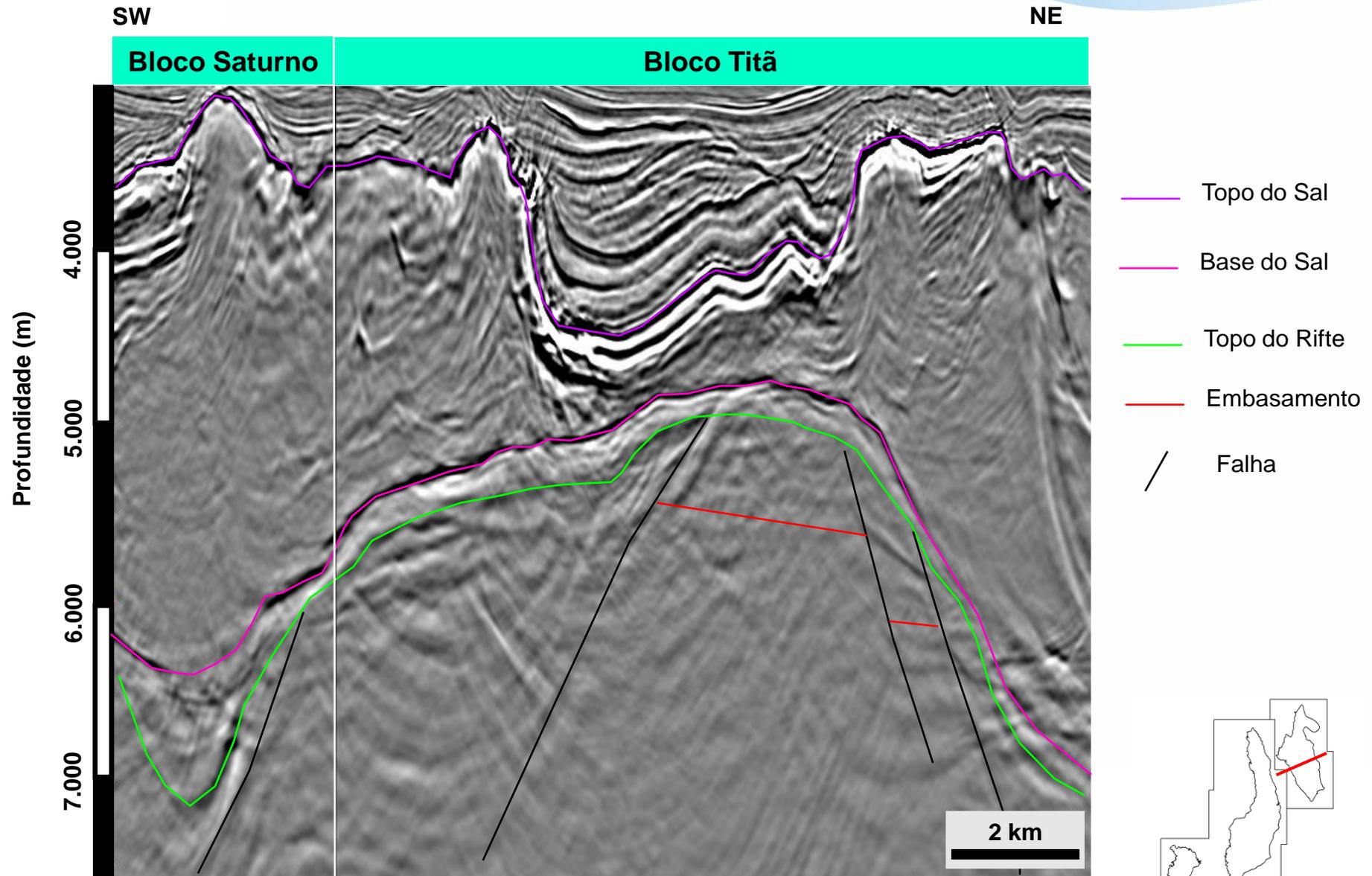
- Topo do Sal
- Base do Sal
- Topo do Rifte
- Embasamento
- / Falha



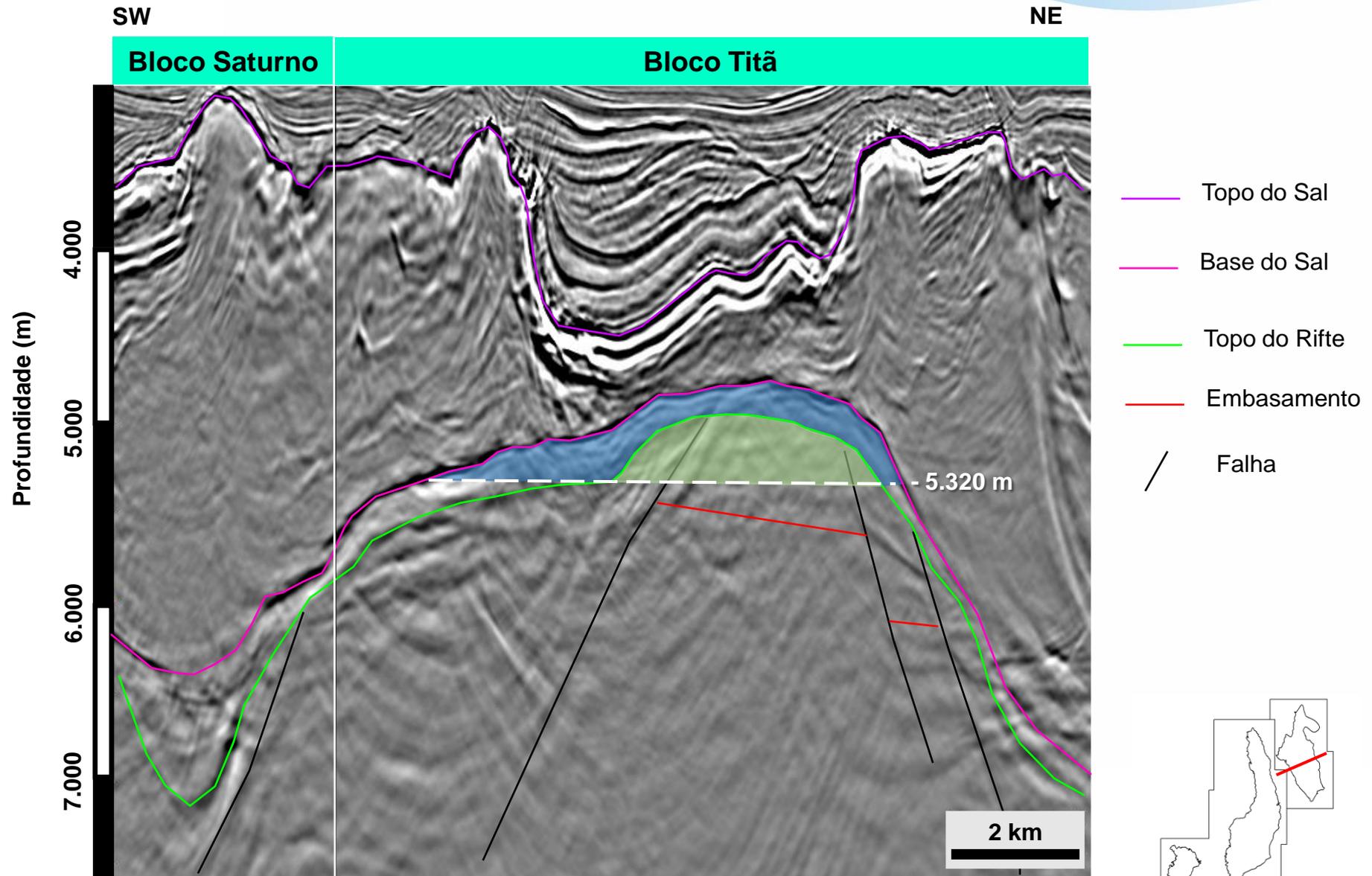
Bloco Titã



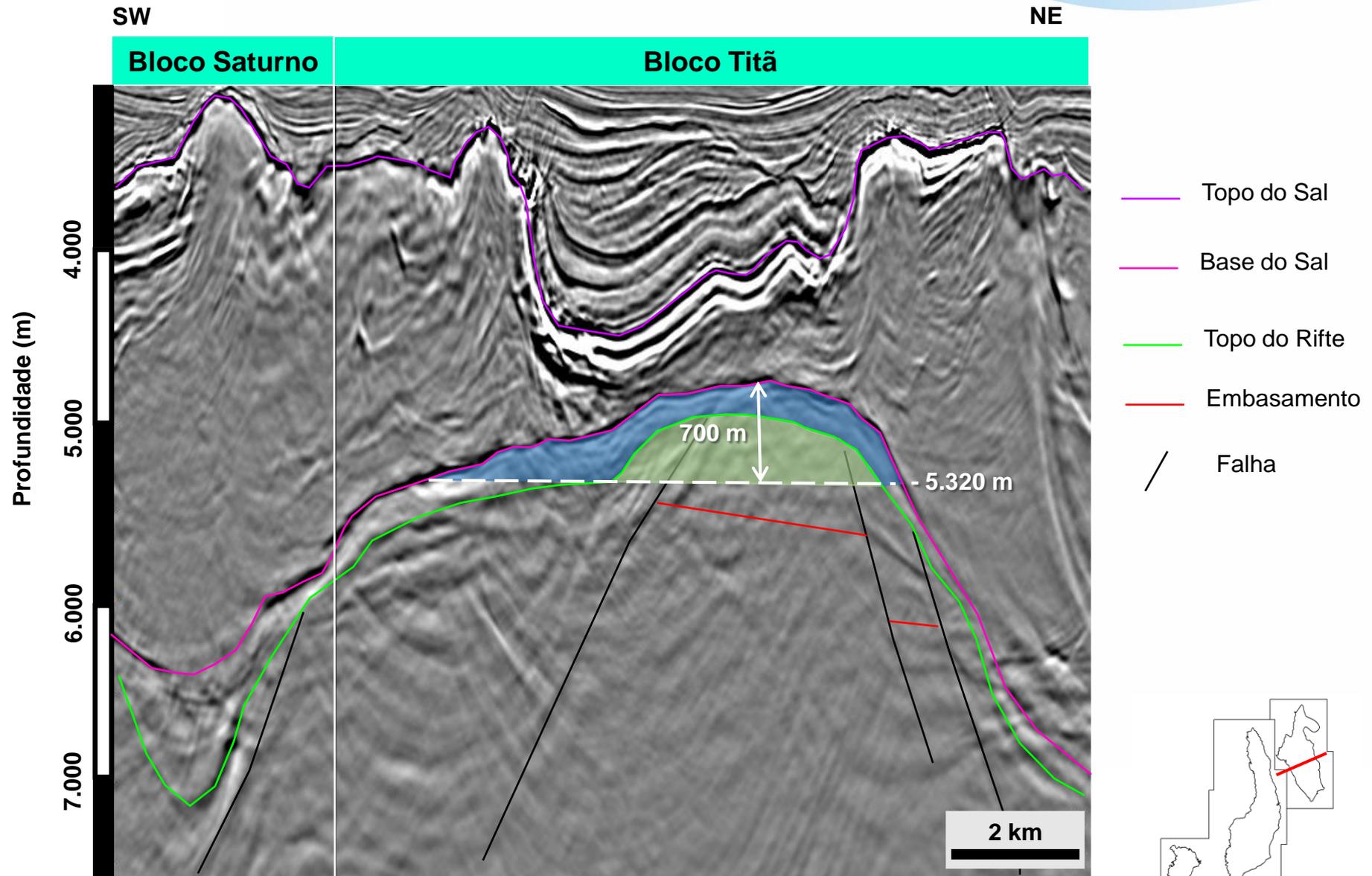
Bloco Titã



Bloco Titã



Bloco Titã

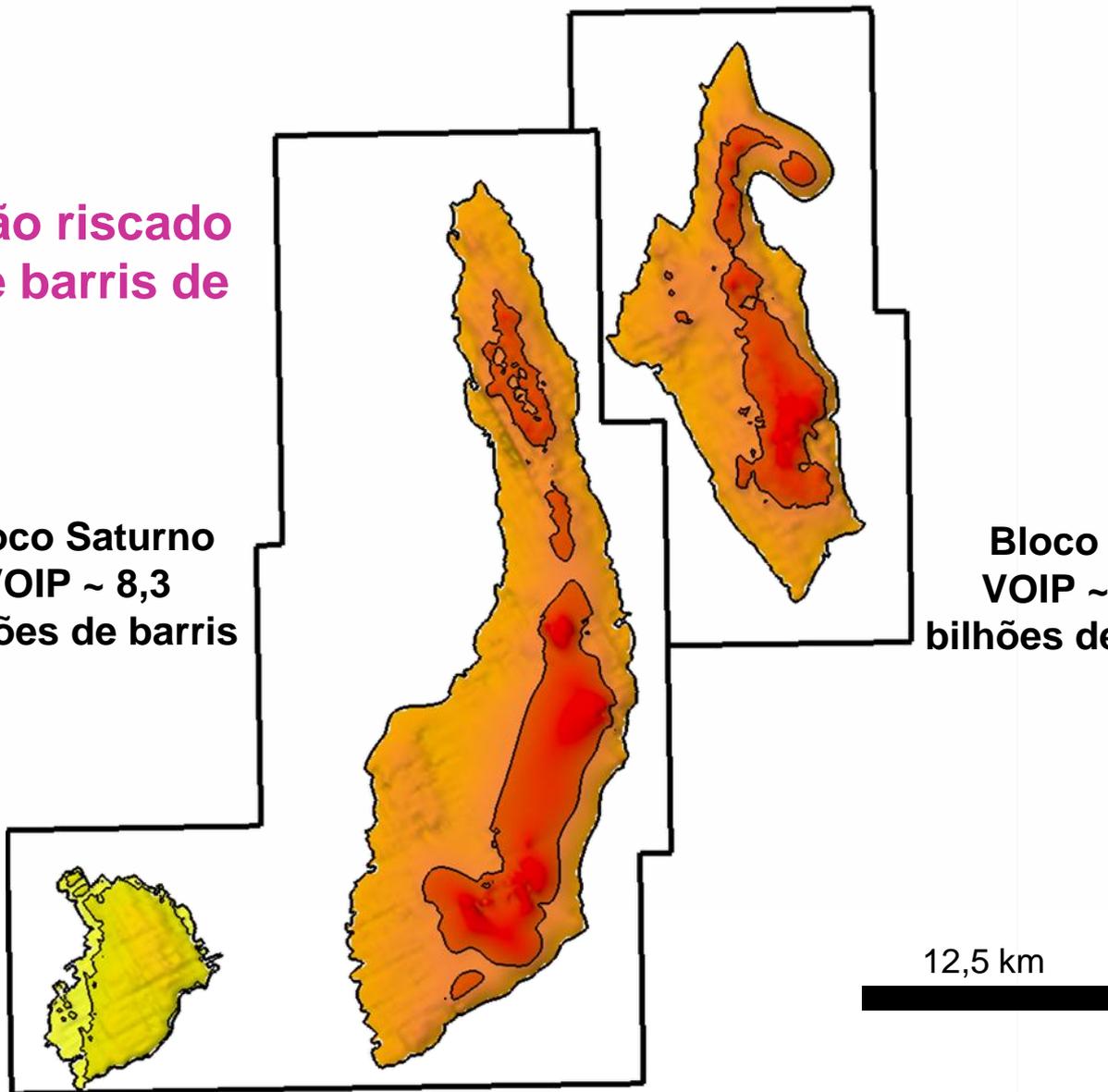


Blocos Saturno e Titã

Volume *in situ* não riscado
~ 12,2 bilhões de barris de
óleo

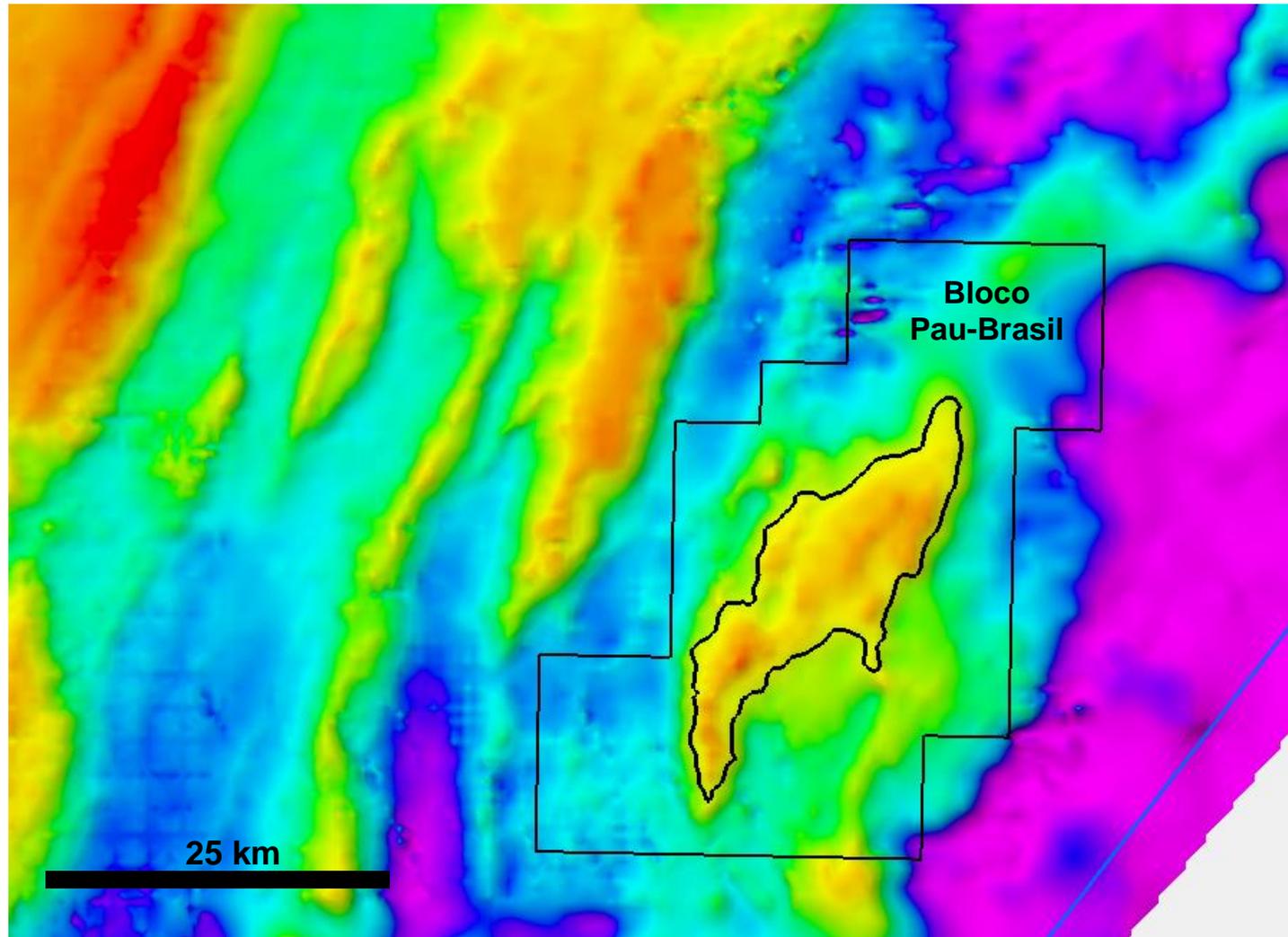
Bloco Saturno
VOIP ~ 8,3
bilhões de barris

Bloco Titã
VOIP ~ 3,9
bilhões de barris

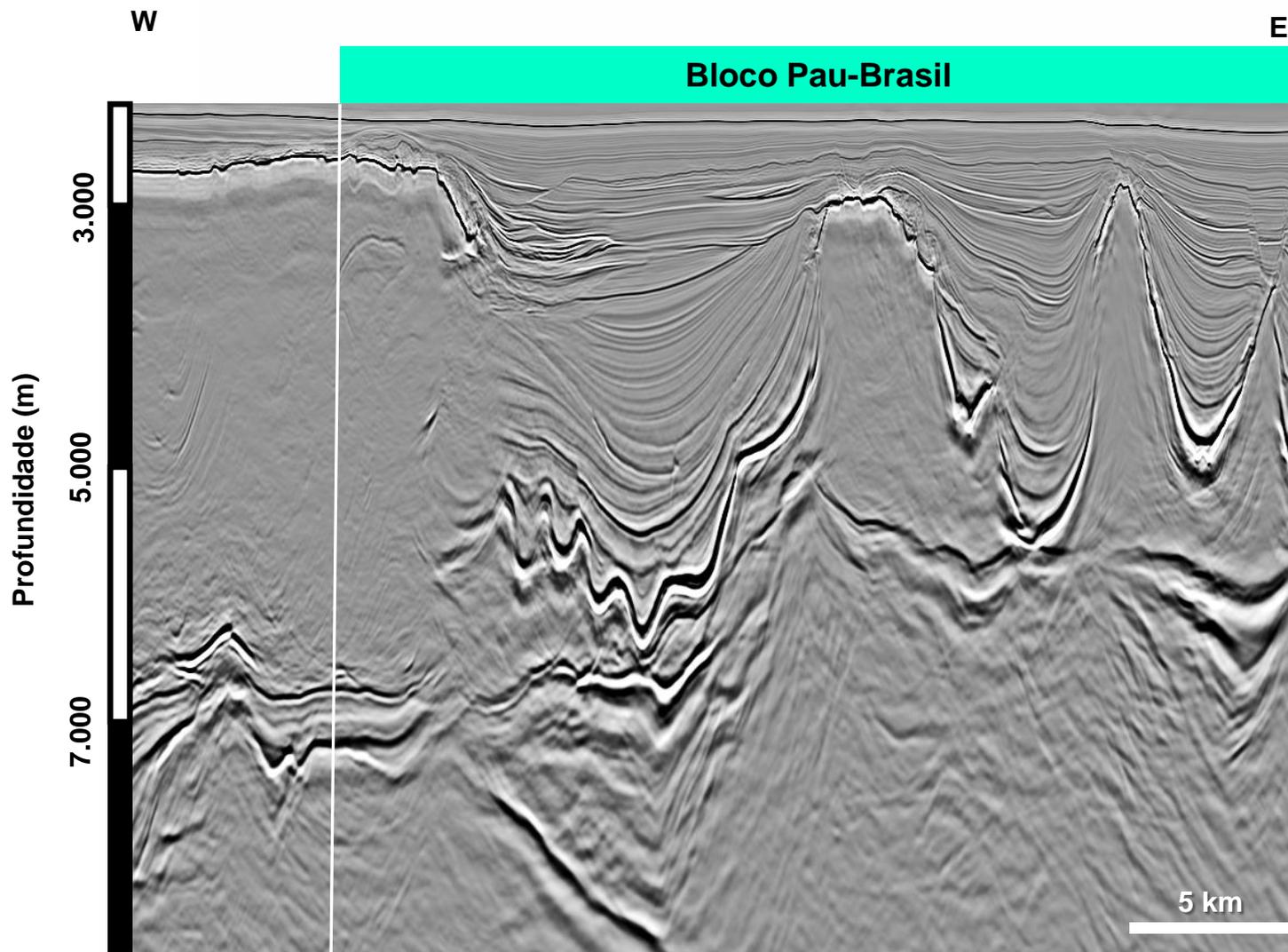


Bloco Pau-Brasil

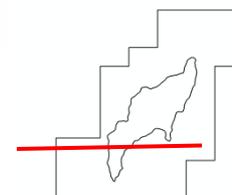
Mapa Estrutural da Base do Sal em Profundidade



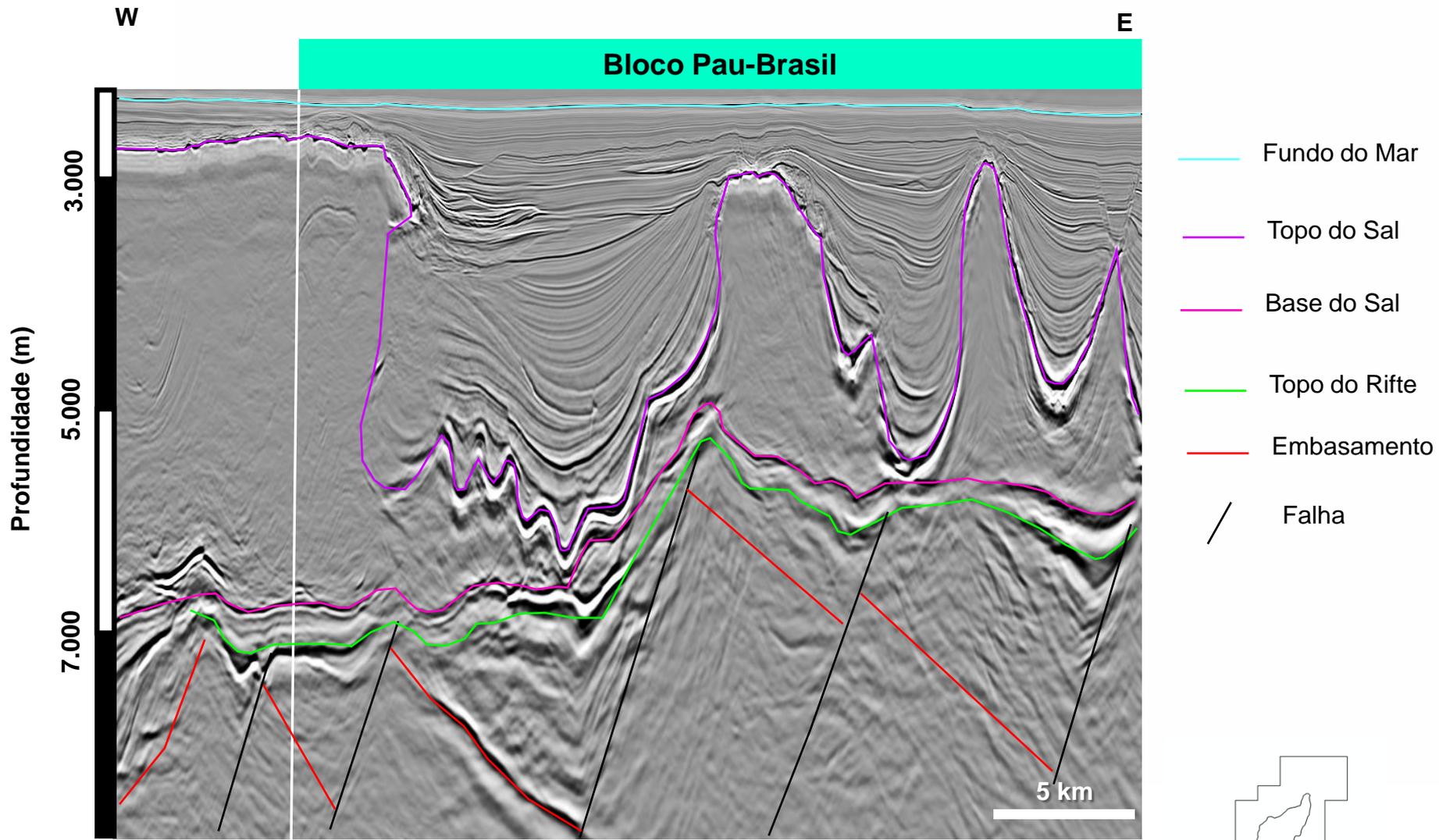
Bloco Pau-Brasil



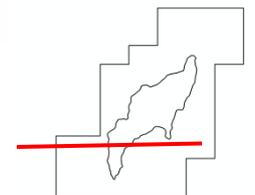
Inline 33820 – Levantamento Constellation – Cortesia CGG



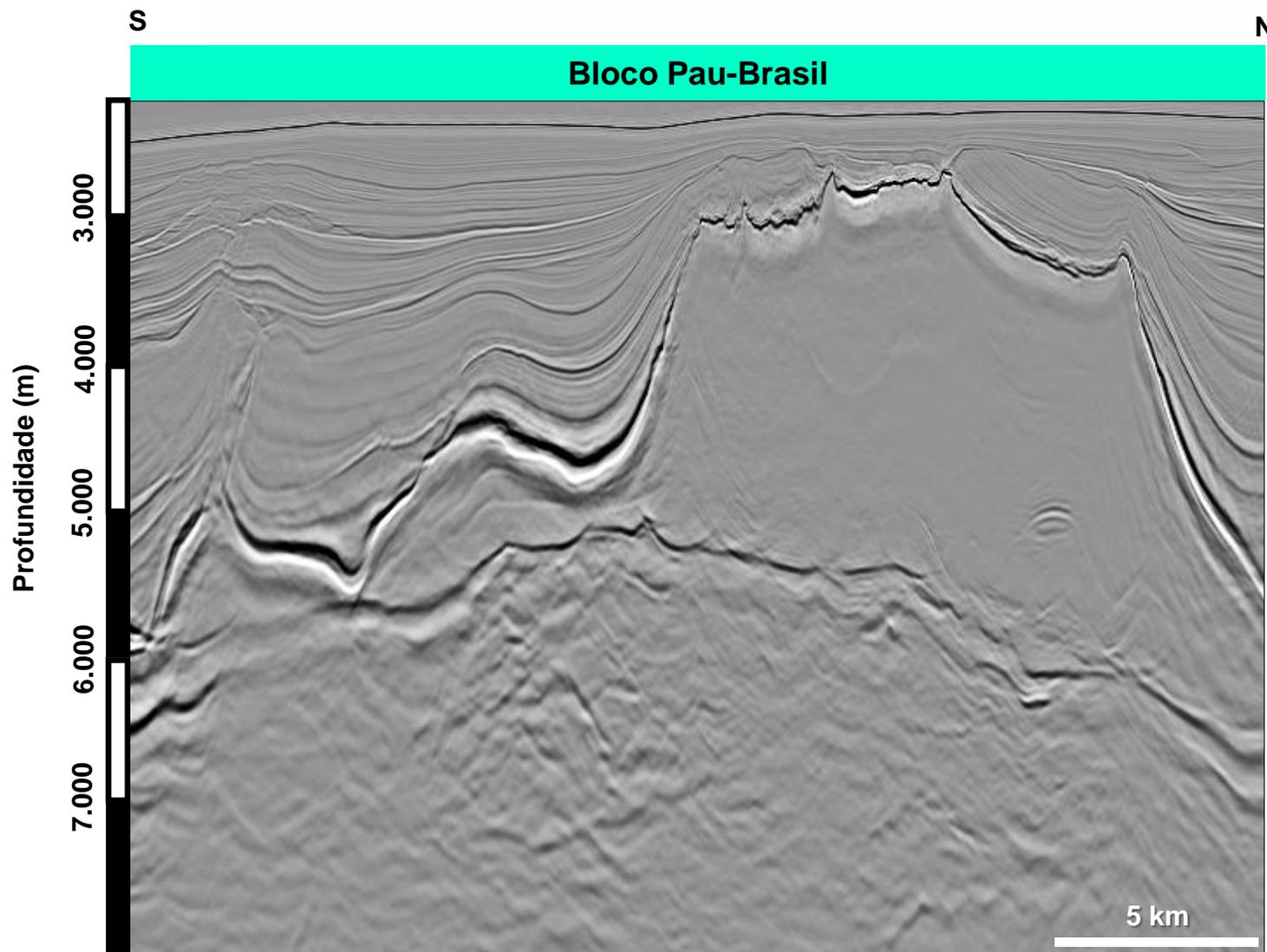
Bloco Pau-Brasil



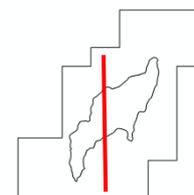
Inline 33820 – Levantamento Constellation – Cortesia CGG



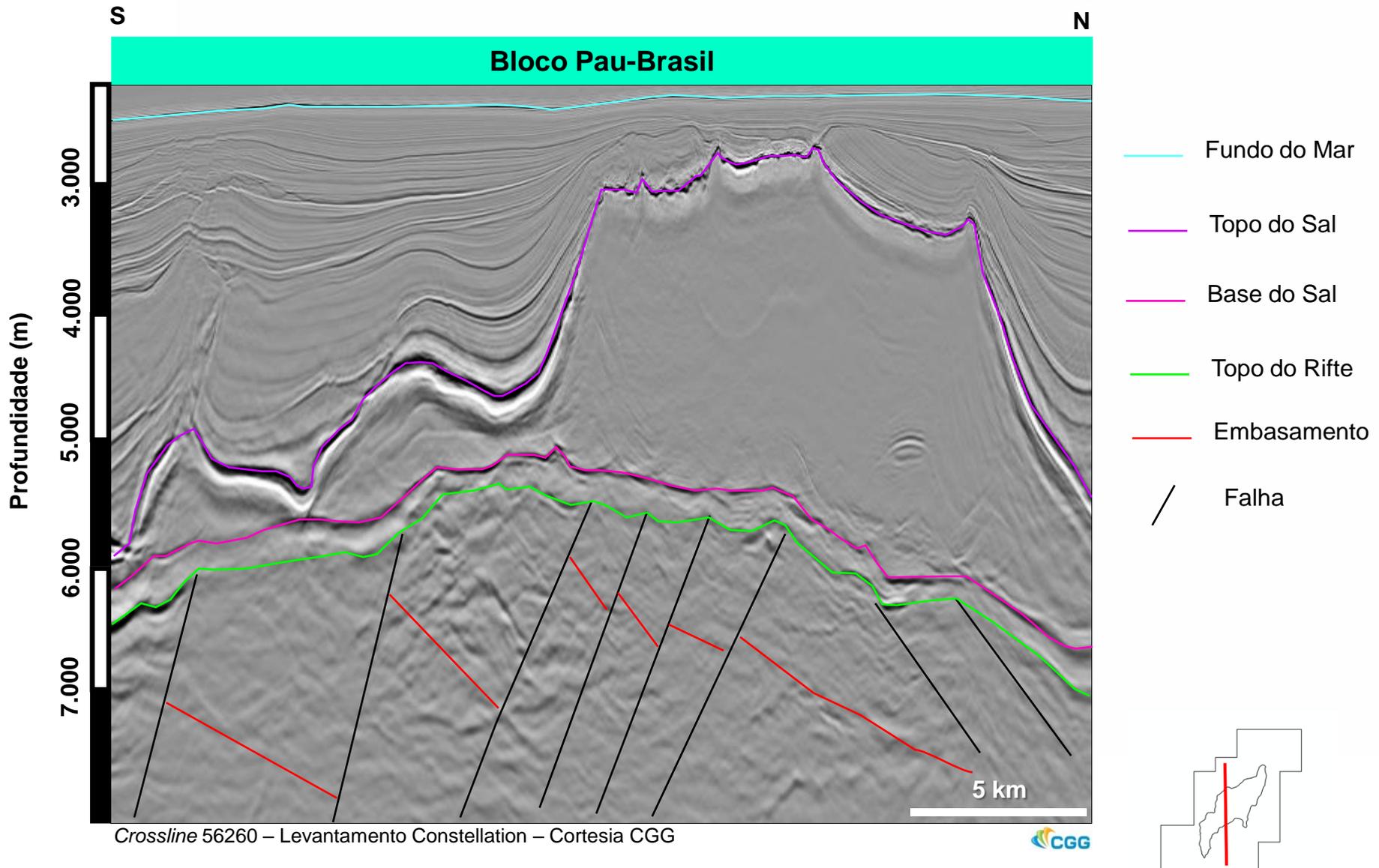
Bloco Pau-Brasil



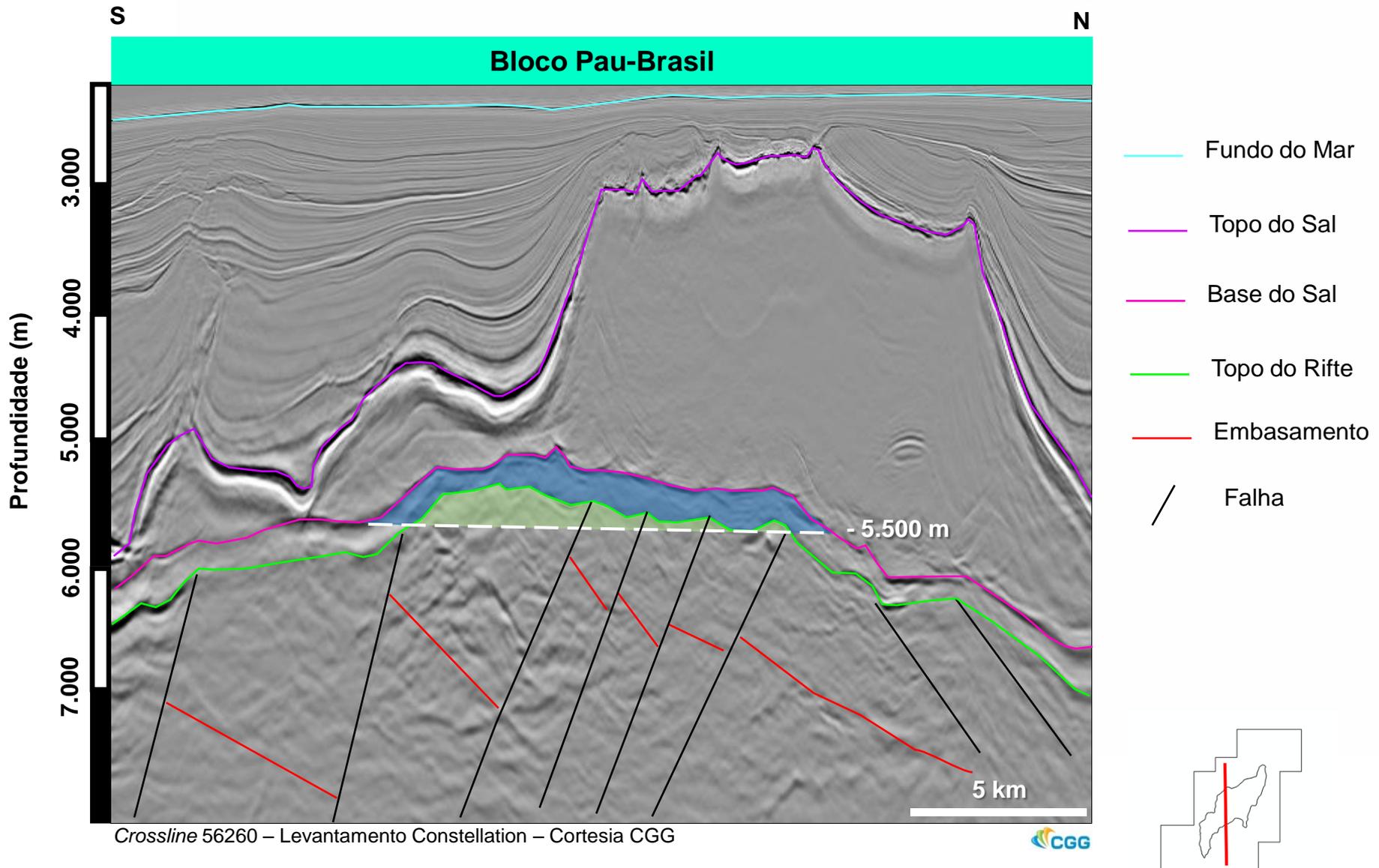
Crossline 56260 – Levantamento Constellation – Cortesia CGG



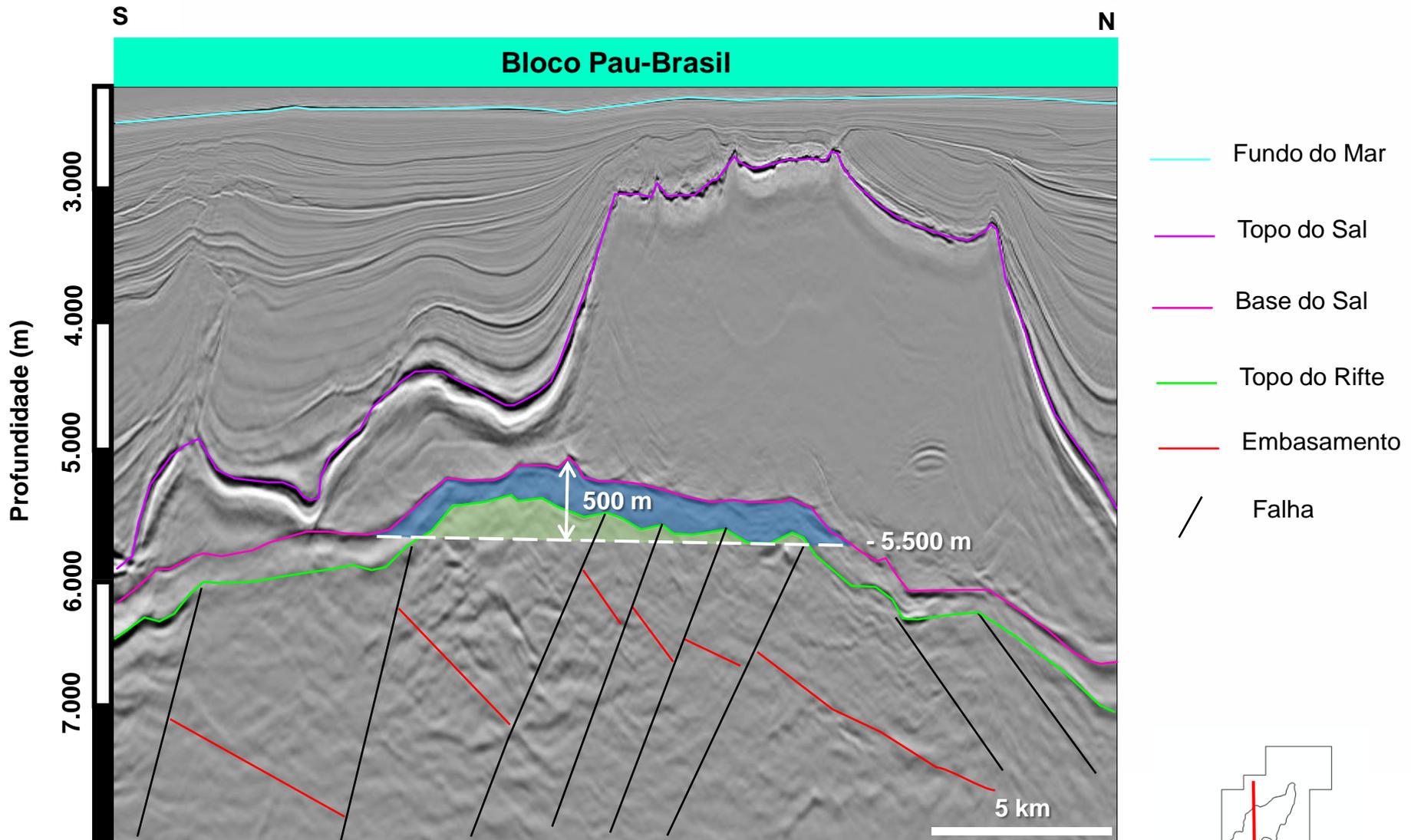
Bloco Pau-Brasil



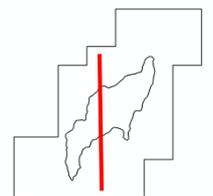
Bloco Pau-Brasil



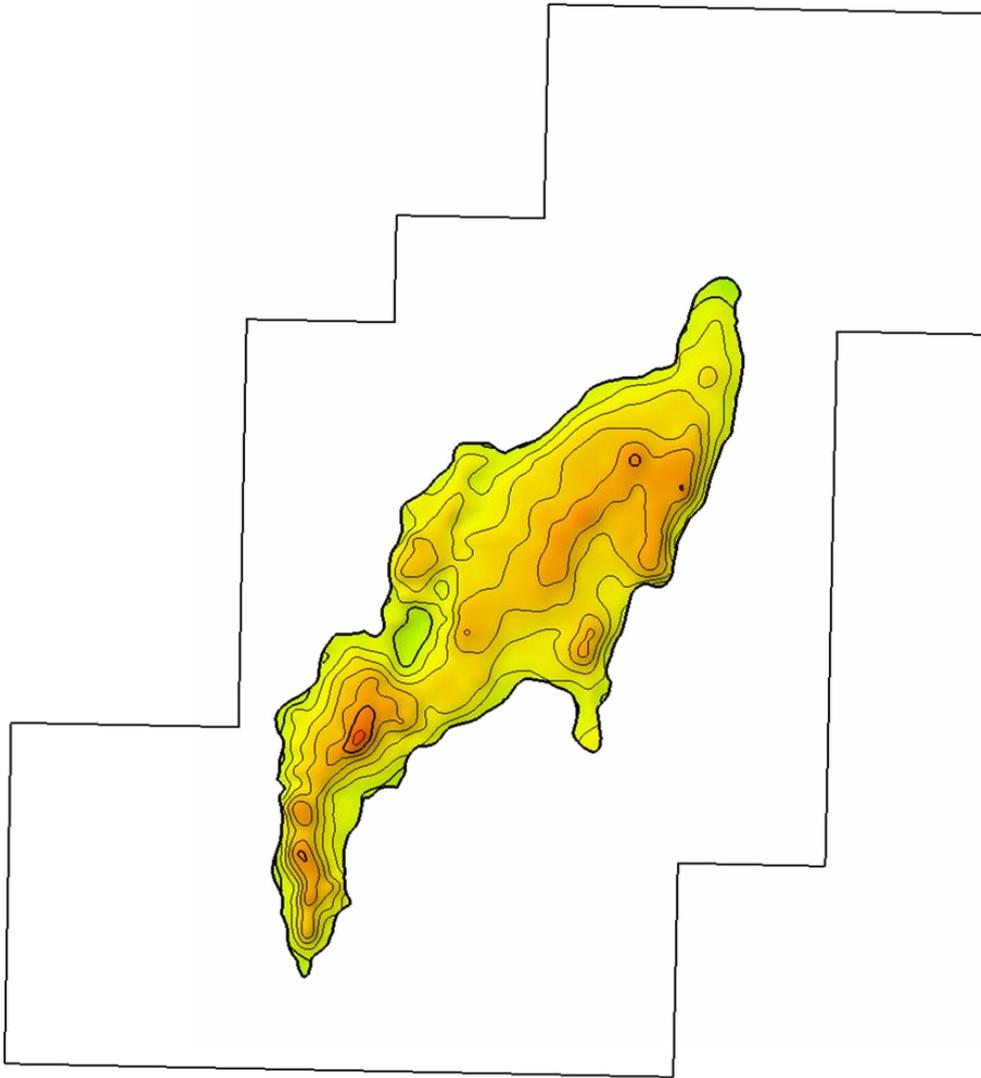
Bloco Pau-Brasil



Crossline 56260 – Levantamento Constellation – Cortesia CGG



Bloco Pau-Brasil



Volume *in situ* não riscado estimado em ~ 3,9 bilhões de barris de óleo

0 10 km



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Considerações Finais

As áreas em oferta na Bacia de Santos na Quinta Rodada do Pré-Sal possuem potencial para descobertas de gigantescas jazidas de petróleo no *play* Pré-Sal.

Os prospectos mapeados são caracterizados por proeminentes altos do embasamento com fechamento bem definido nas quatro direções.

Exibem fácies sísmicas características dos grandes campos produtores do Pré-Sal, além de indicadores da presença de hidrocarbonetos (anomalia de amplitude e *flat spot*, por exemplo).

O volume *in situ* não riscado estimado para os blocos Saturno, Titã e Pau-Brasil é superior a 16 bilhões de barris de petróleo.

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