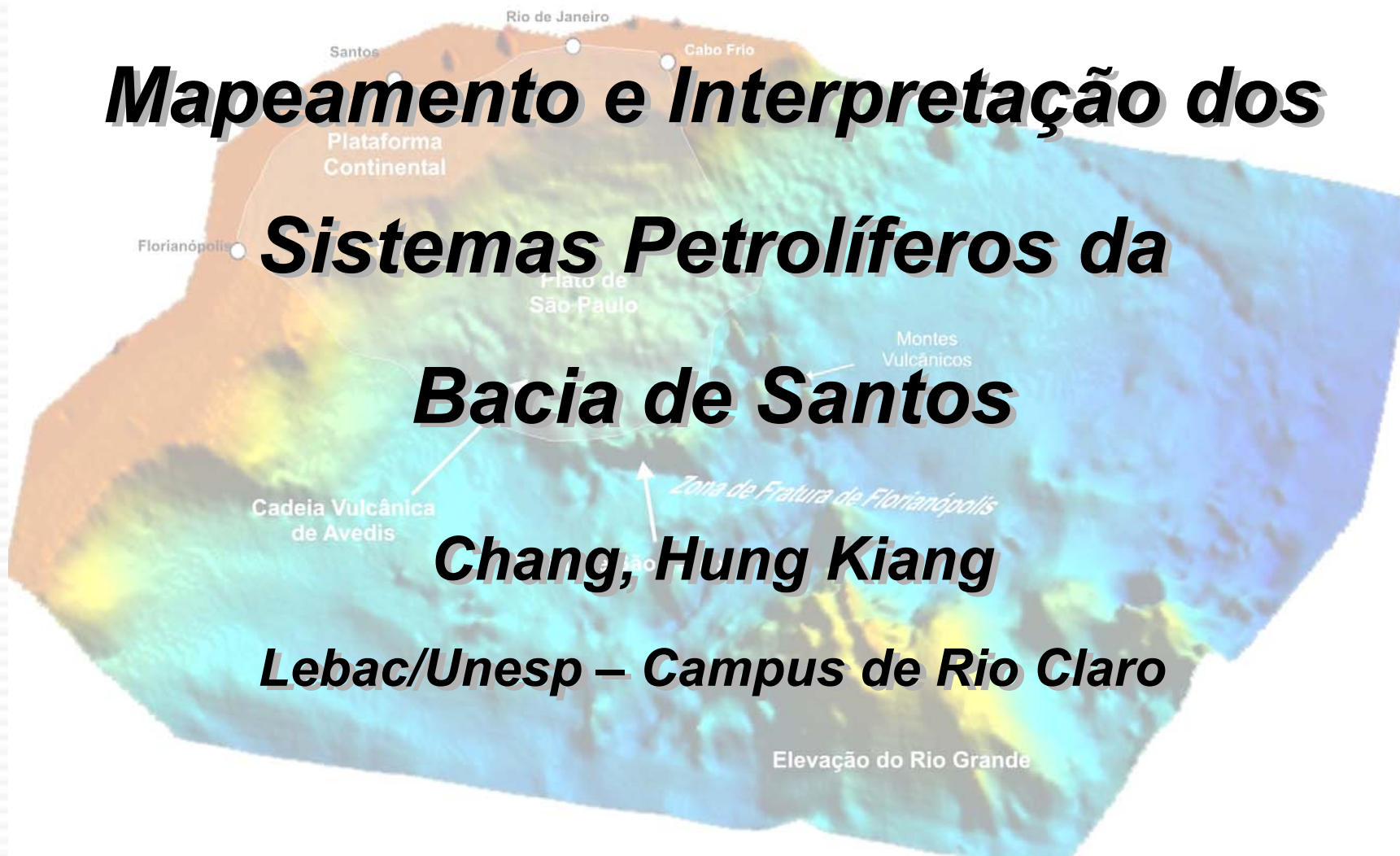


Mapeamento e Interpretação dos Sistemas Petrolíferos da Bacia de Santos

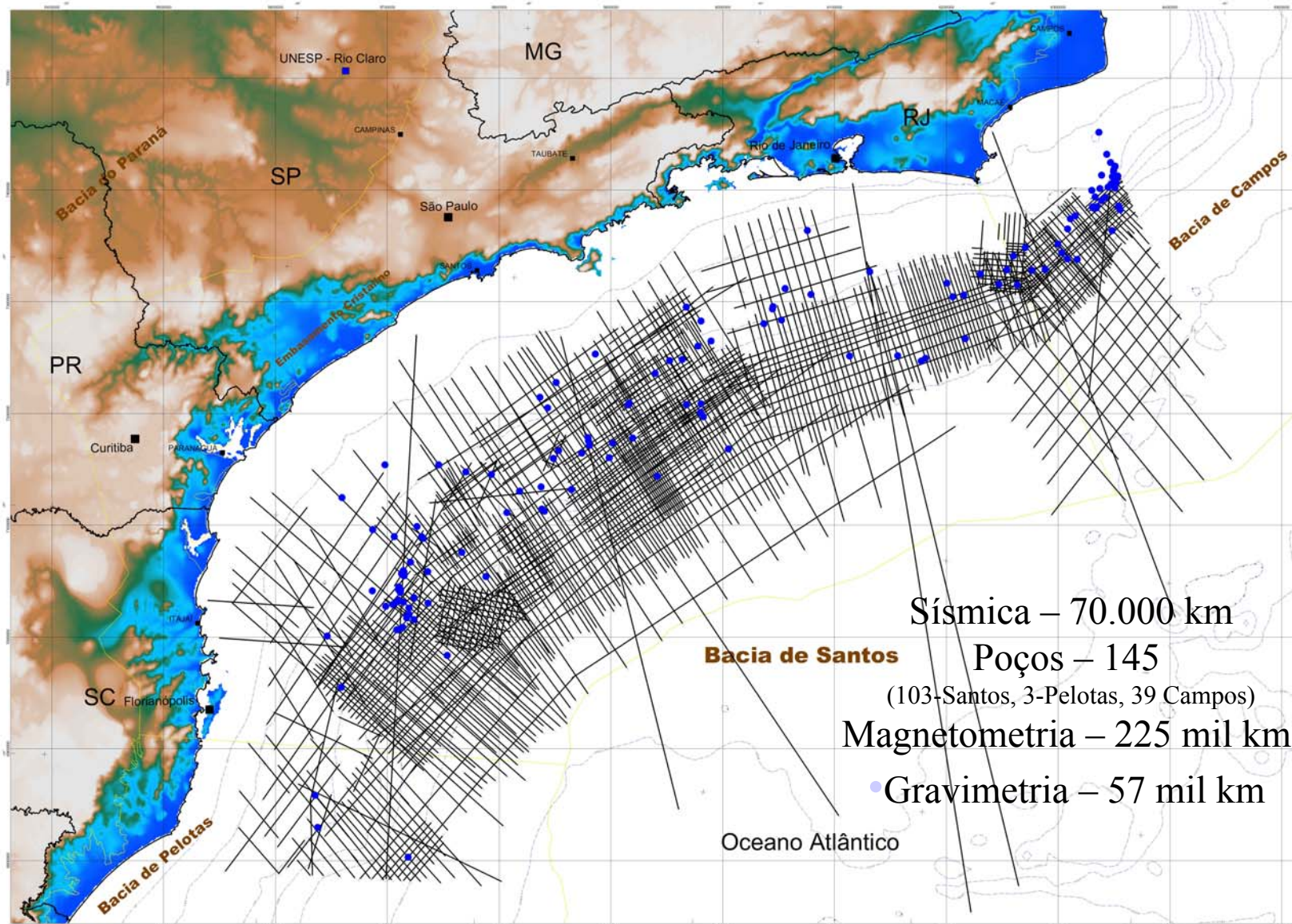
Chang, Hung Kiang

Lebac/Unesp – Campus de Rio Claro

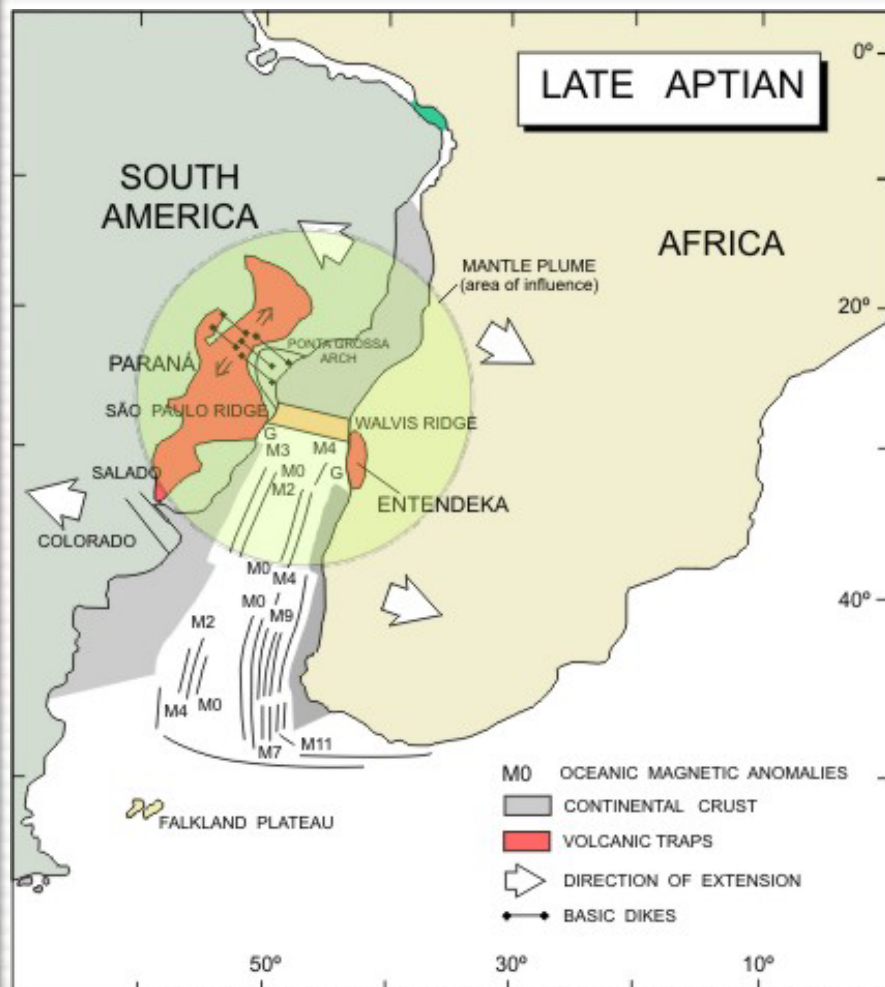


Projeto financiado pela ANP (Agência Nacional do Petróleo)

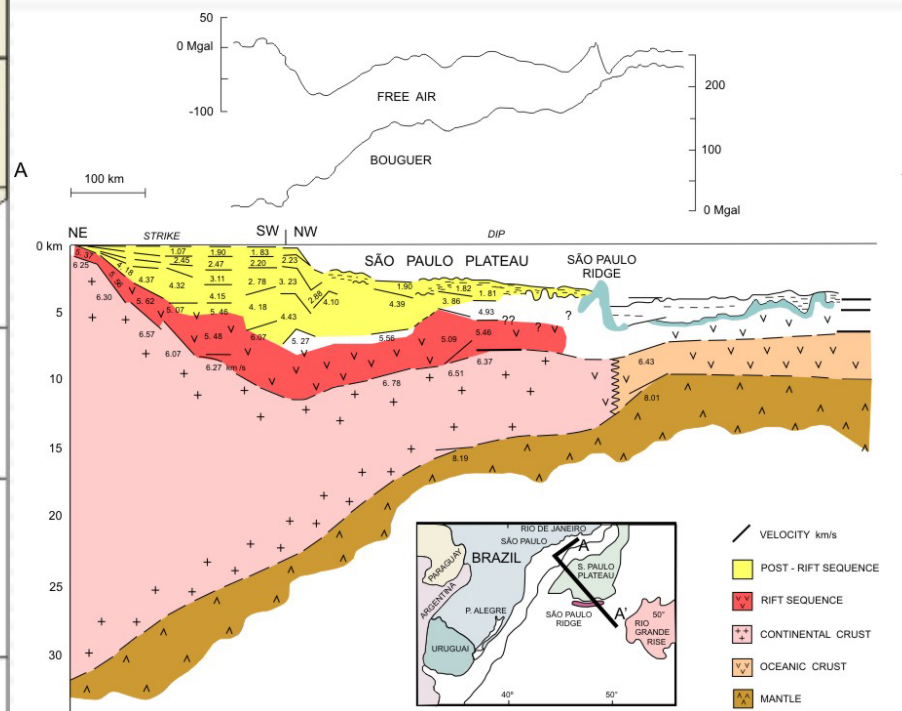
Localização – Base de Dados



Abertura Sul-Atlântica – Margem Vulcânica

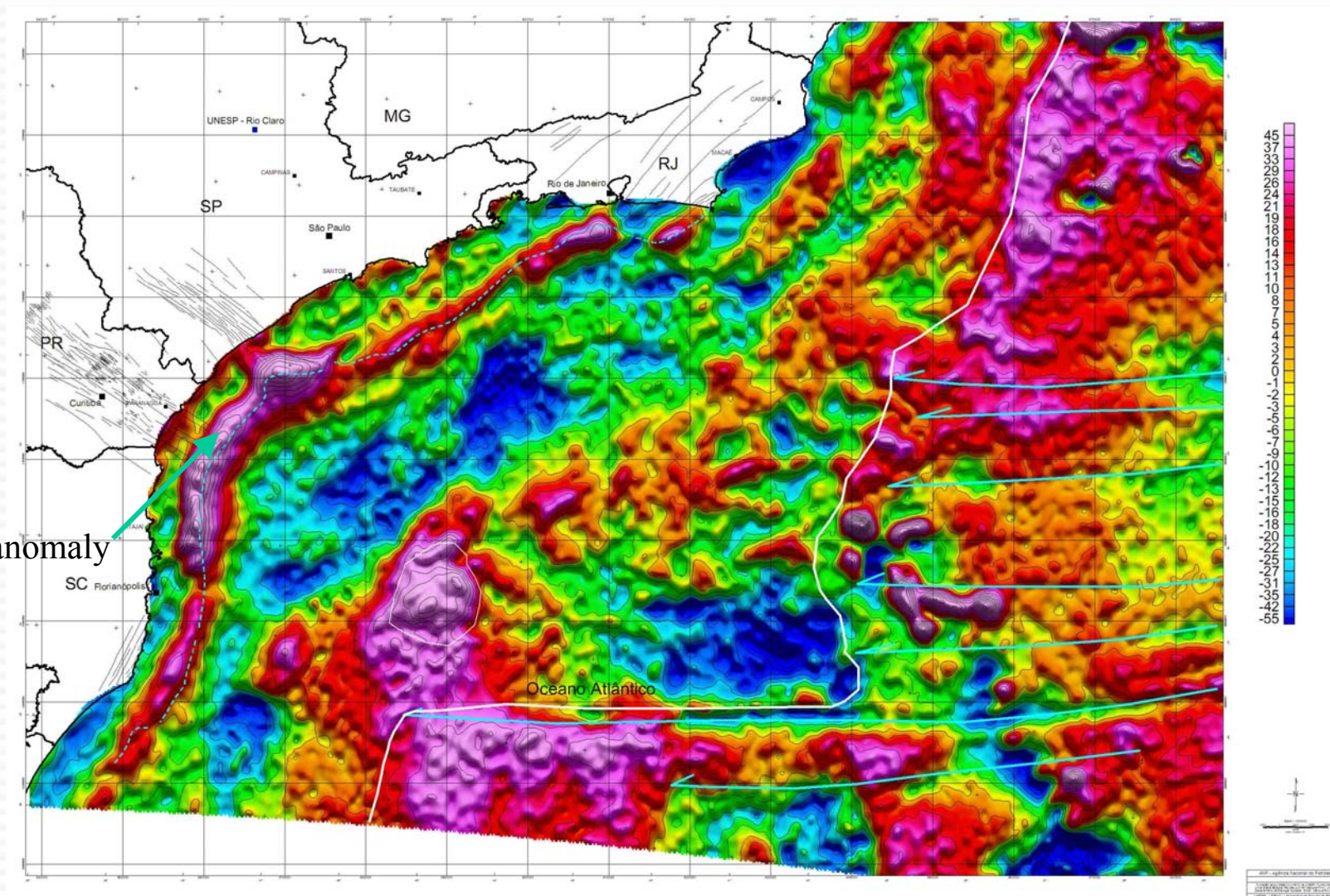


Modified from Rabinowitz and LaBrecque (1979), White & McKenzie (1989) and Chang et al. (1992)

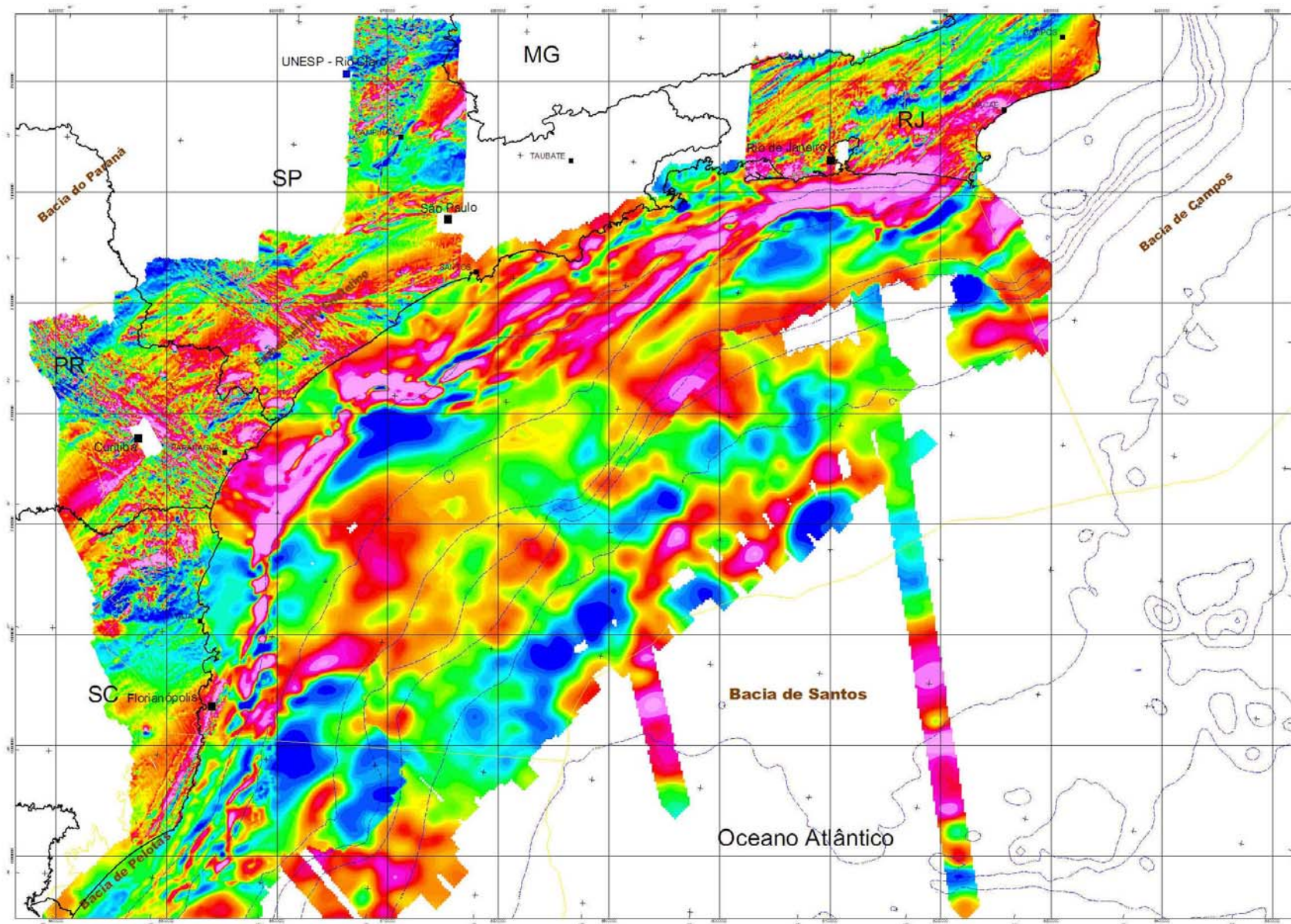


Modificado de Leyden et al., 1976

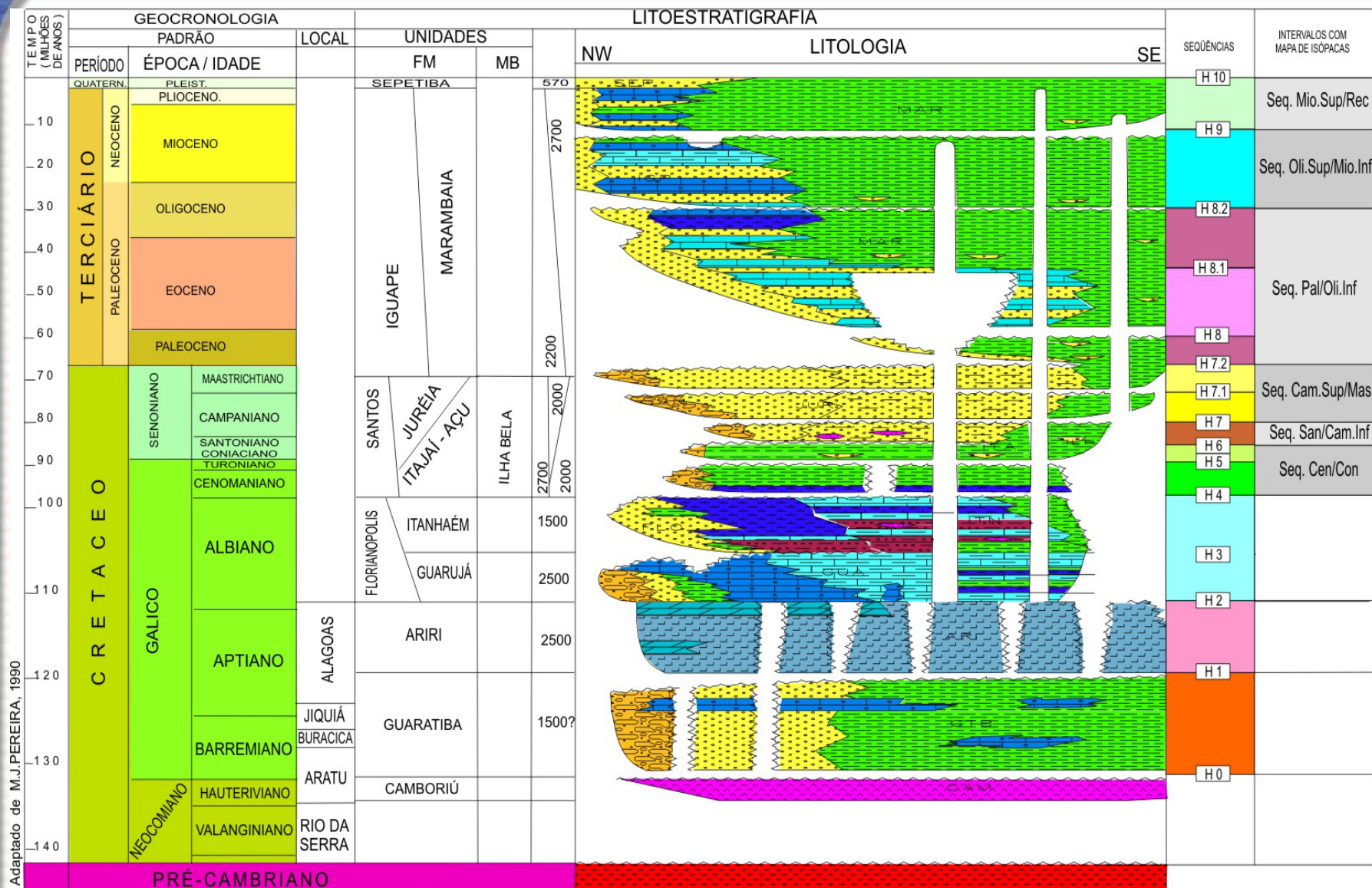
Positive anomaly



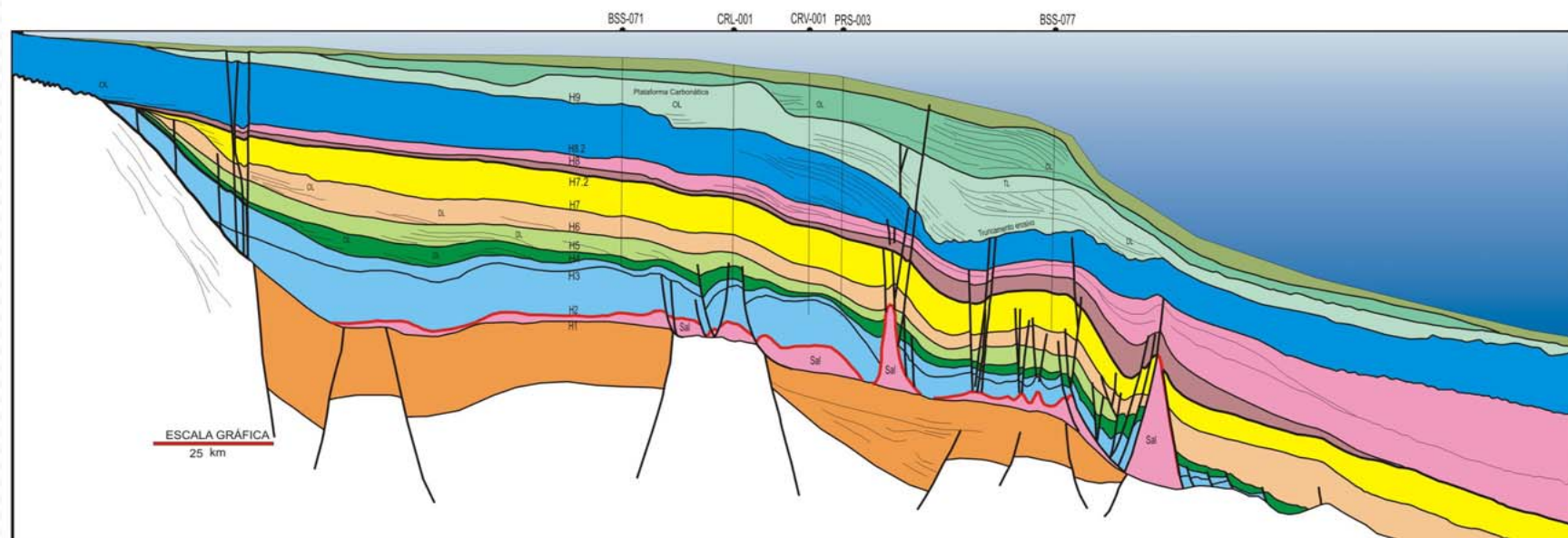
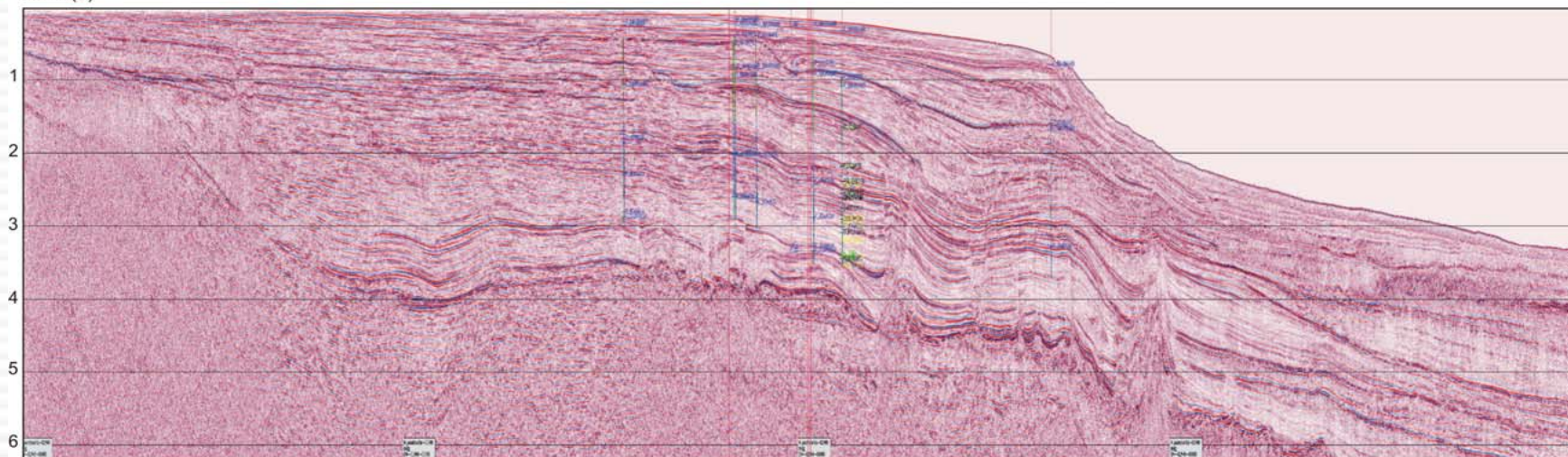
Mapa de Anomalia Magnética (reduzido do IGRF)



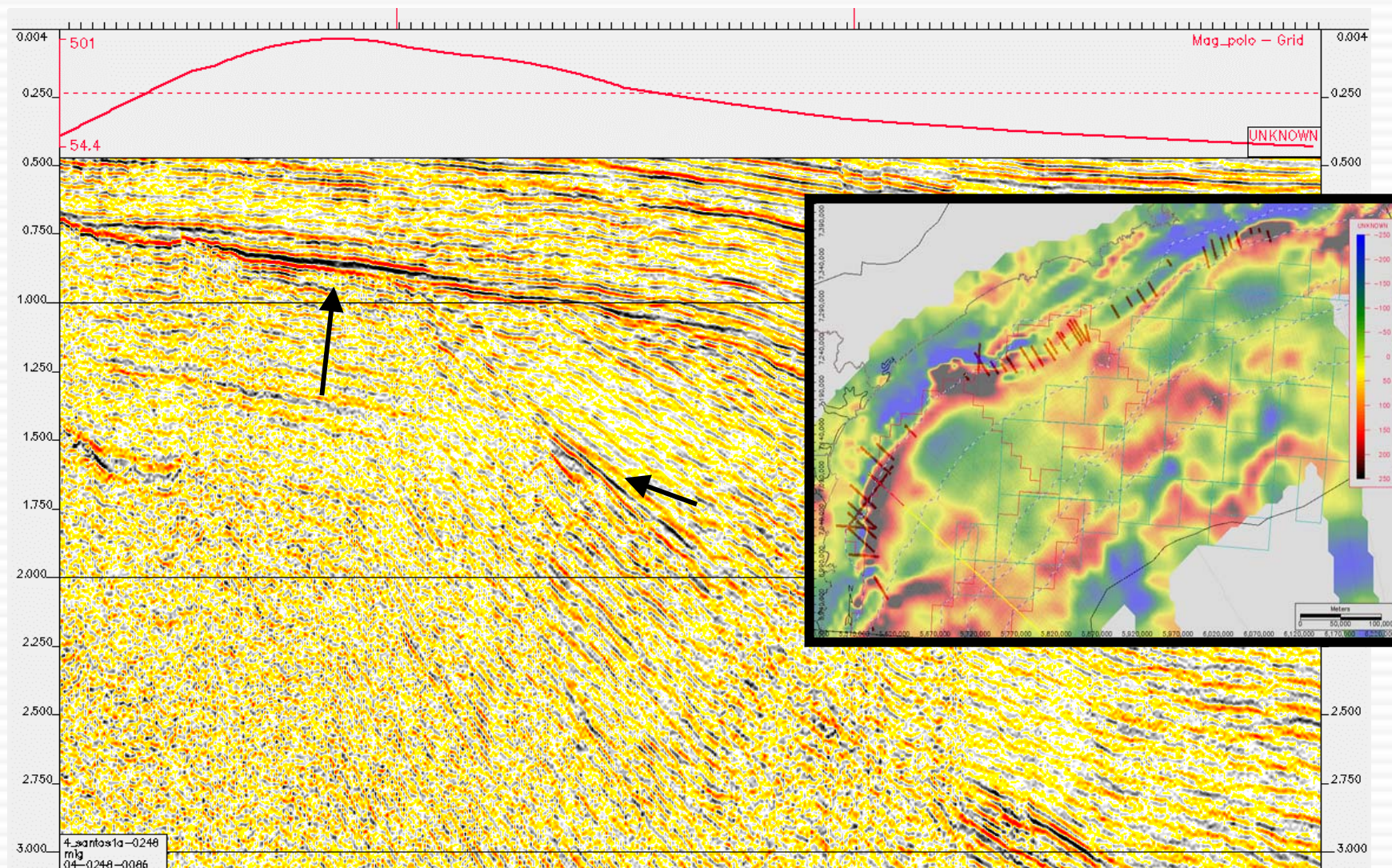
Coluna Litoestratigráfica



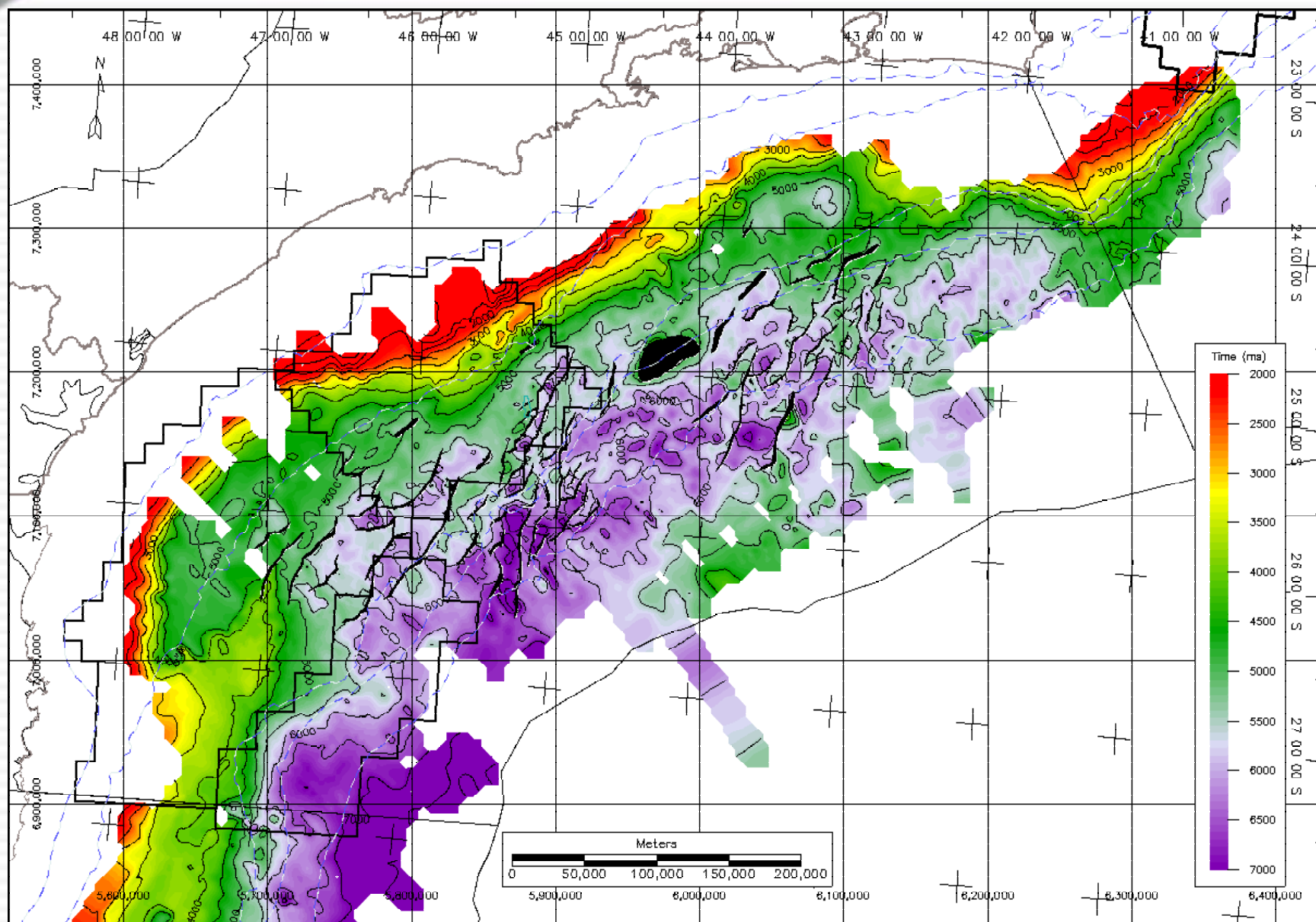
TWT (s)



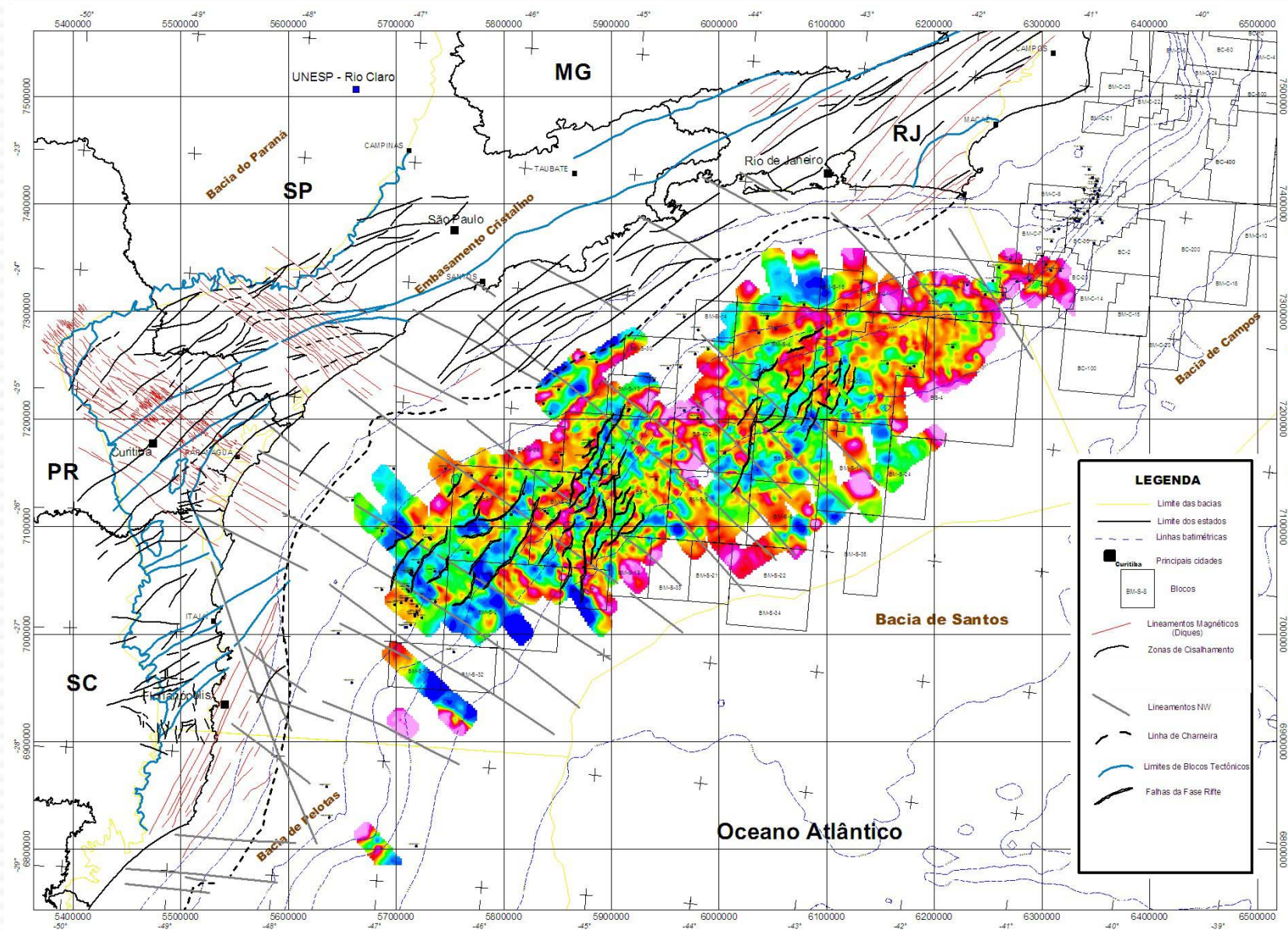
Vulcânica Extrusiva – (0248-0086)



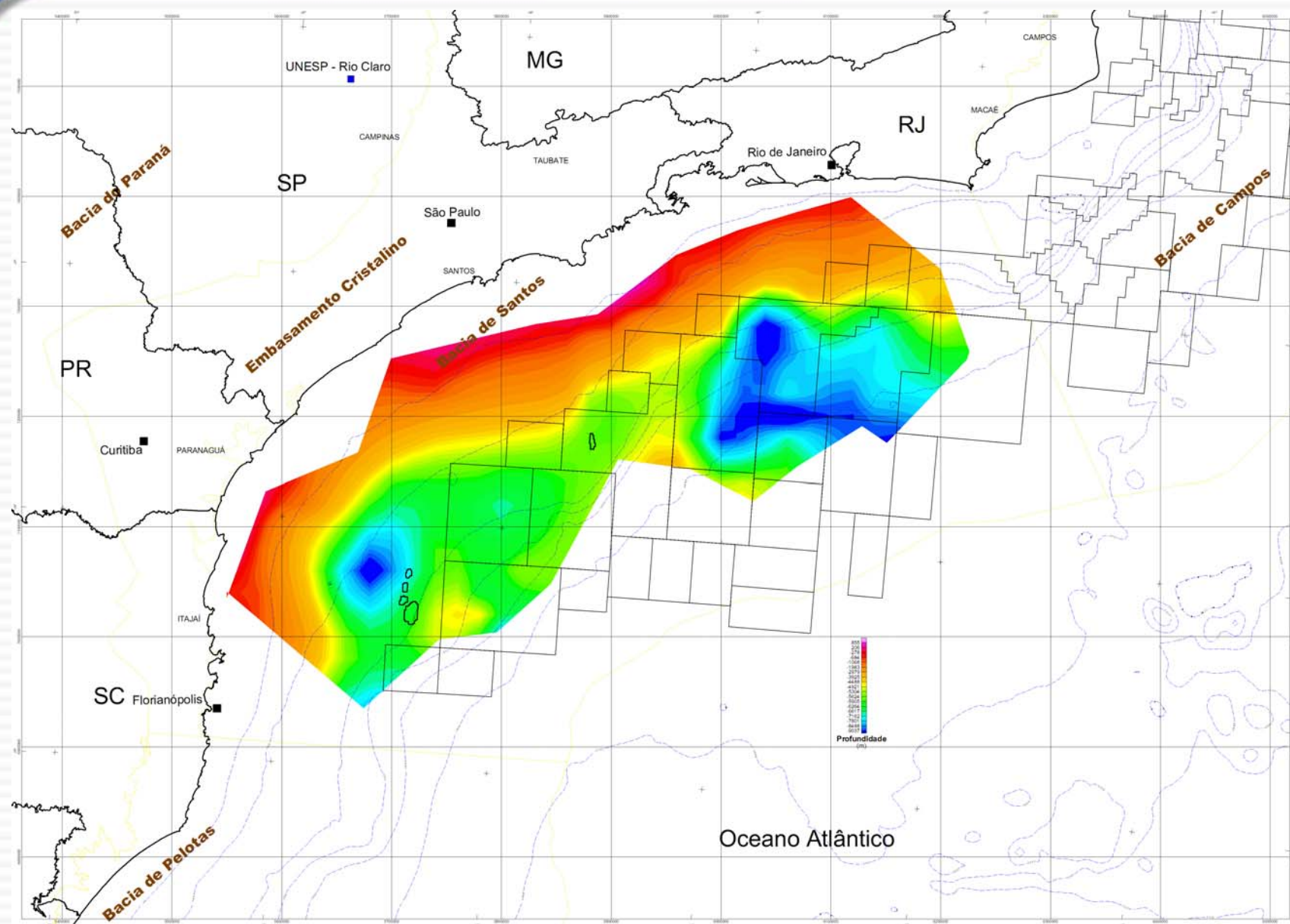
Mapa Estrutural do Topo da Sequência Rifte



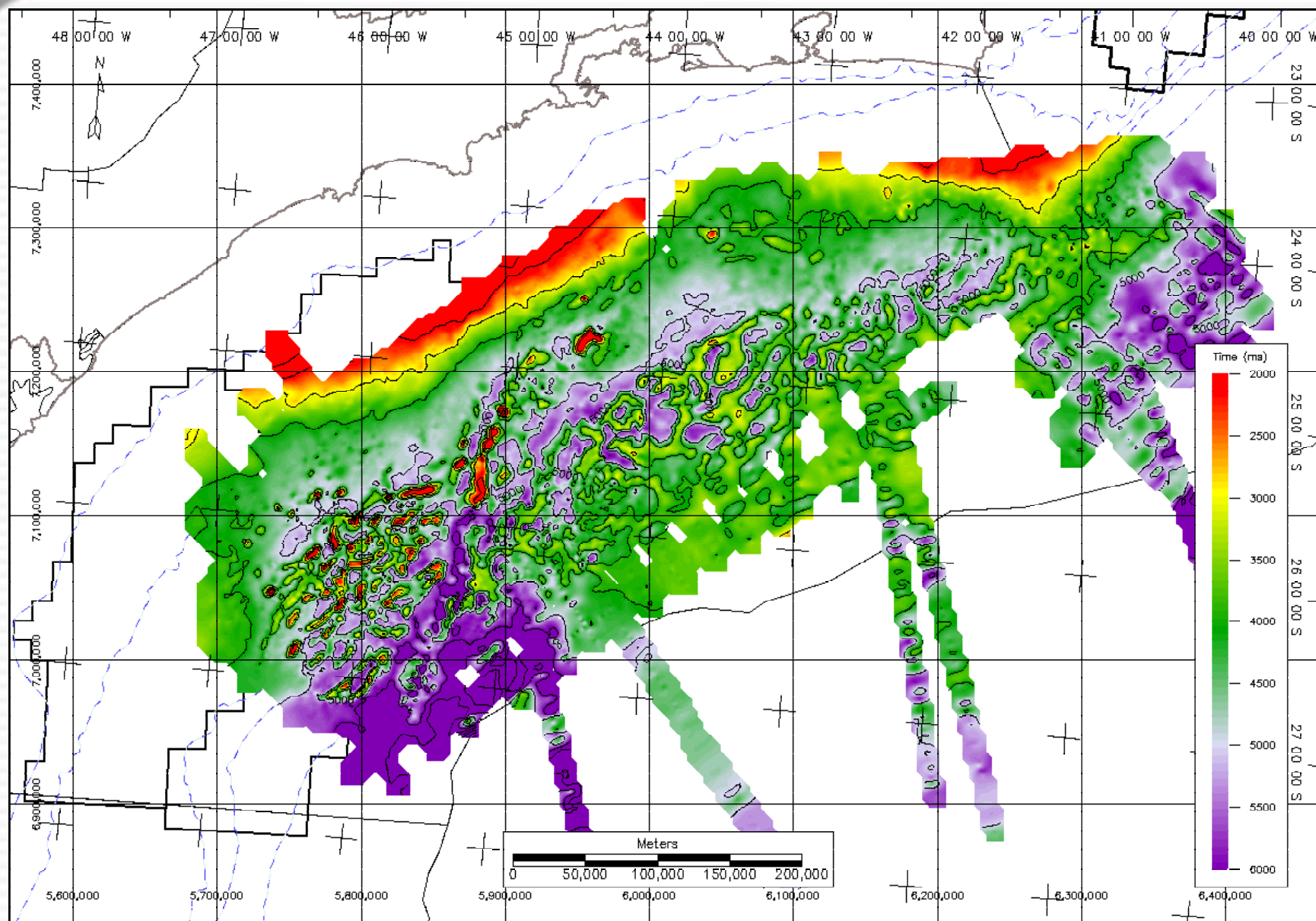
Mapa de Isópaca da Sequência Rifte



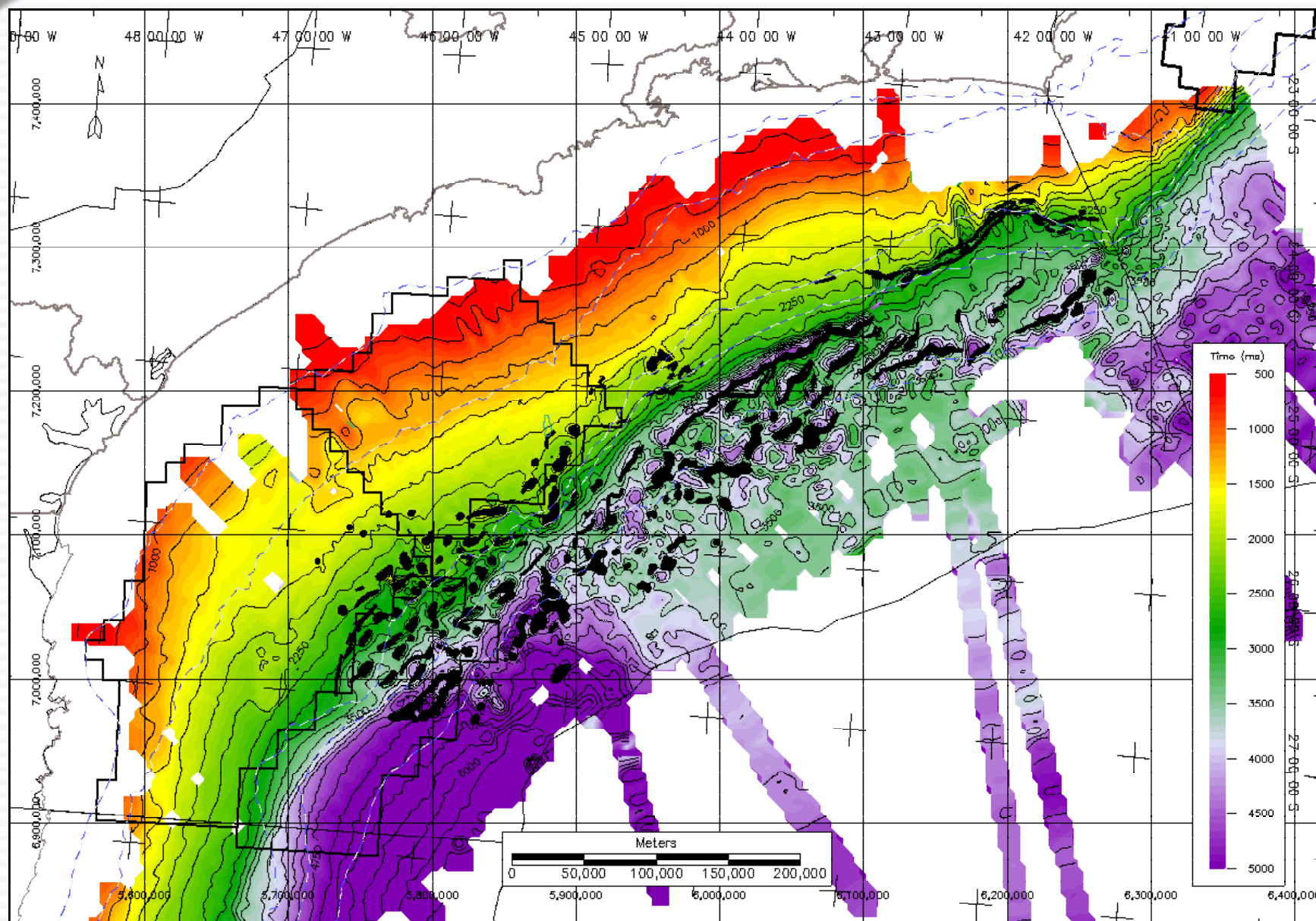
Mapa do Embasamento Magnético (Werner)



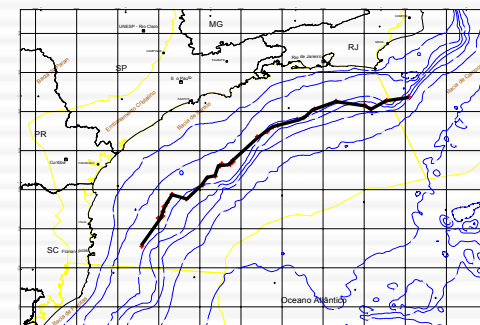
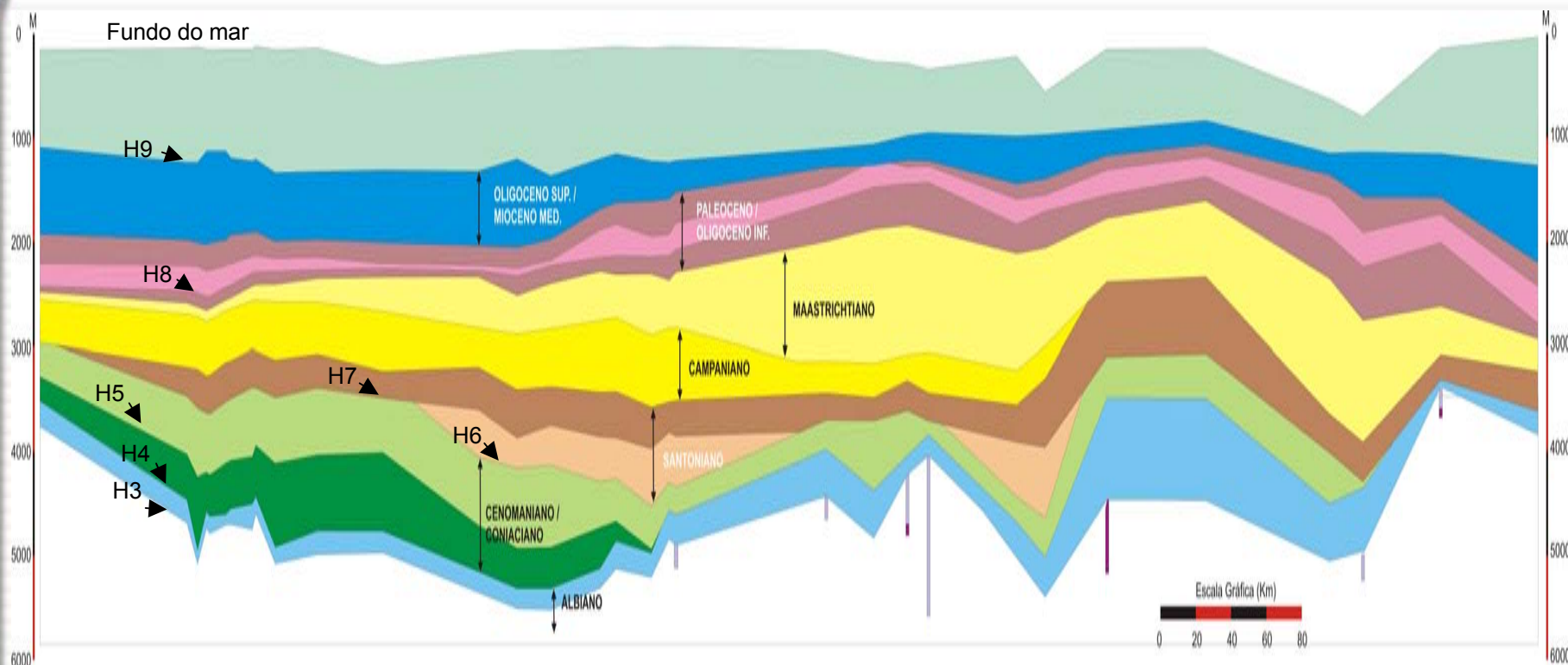
Mapa Estrutural Topo Sequência Evaporítica



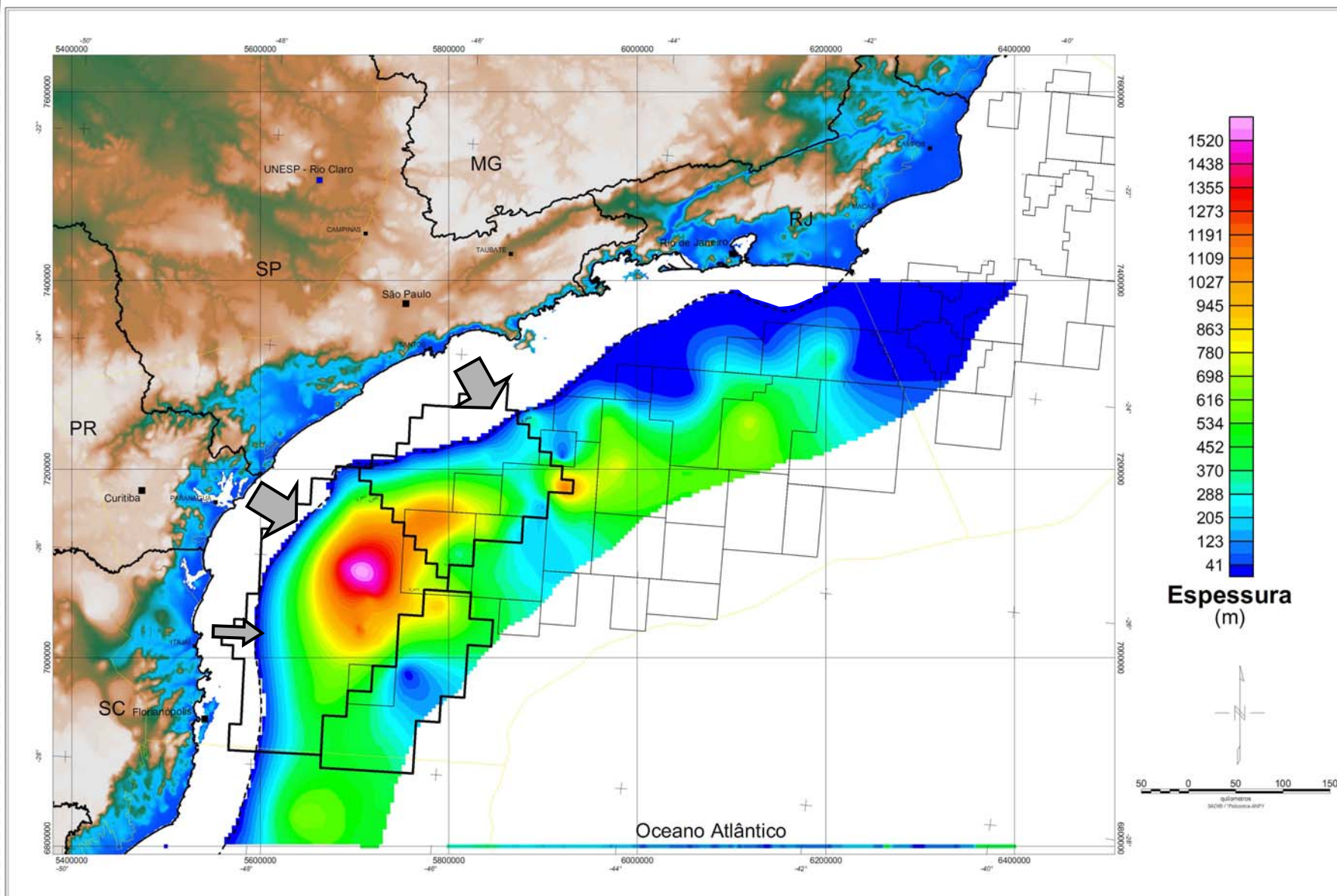
Mapa Estrutural Topo do Maastrichtiano



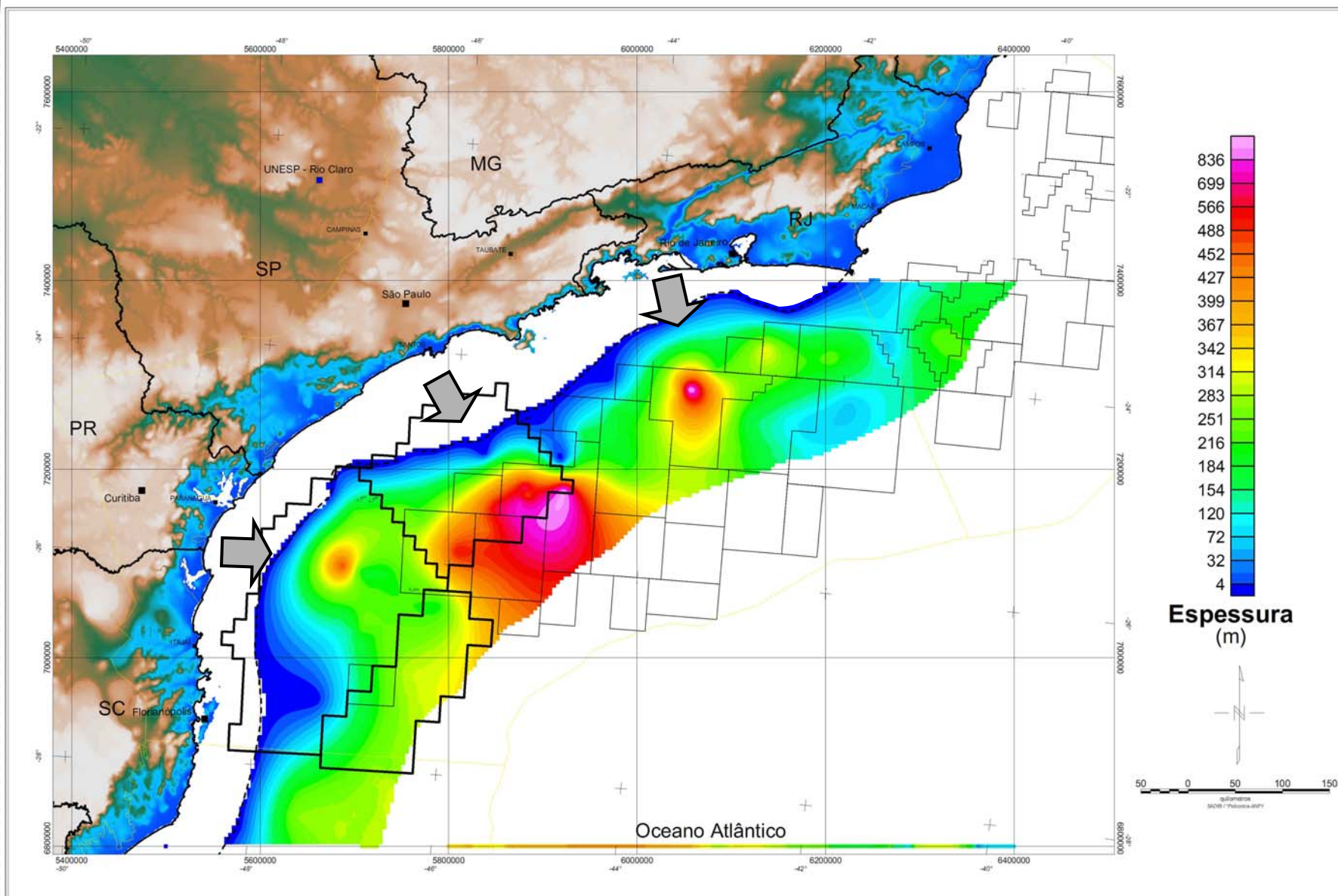
Seção Geológica “Strike” (SW-NE)



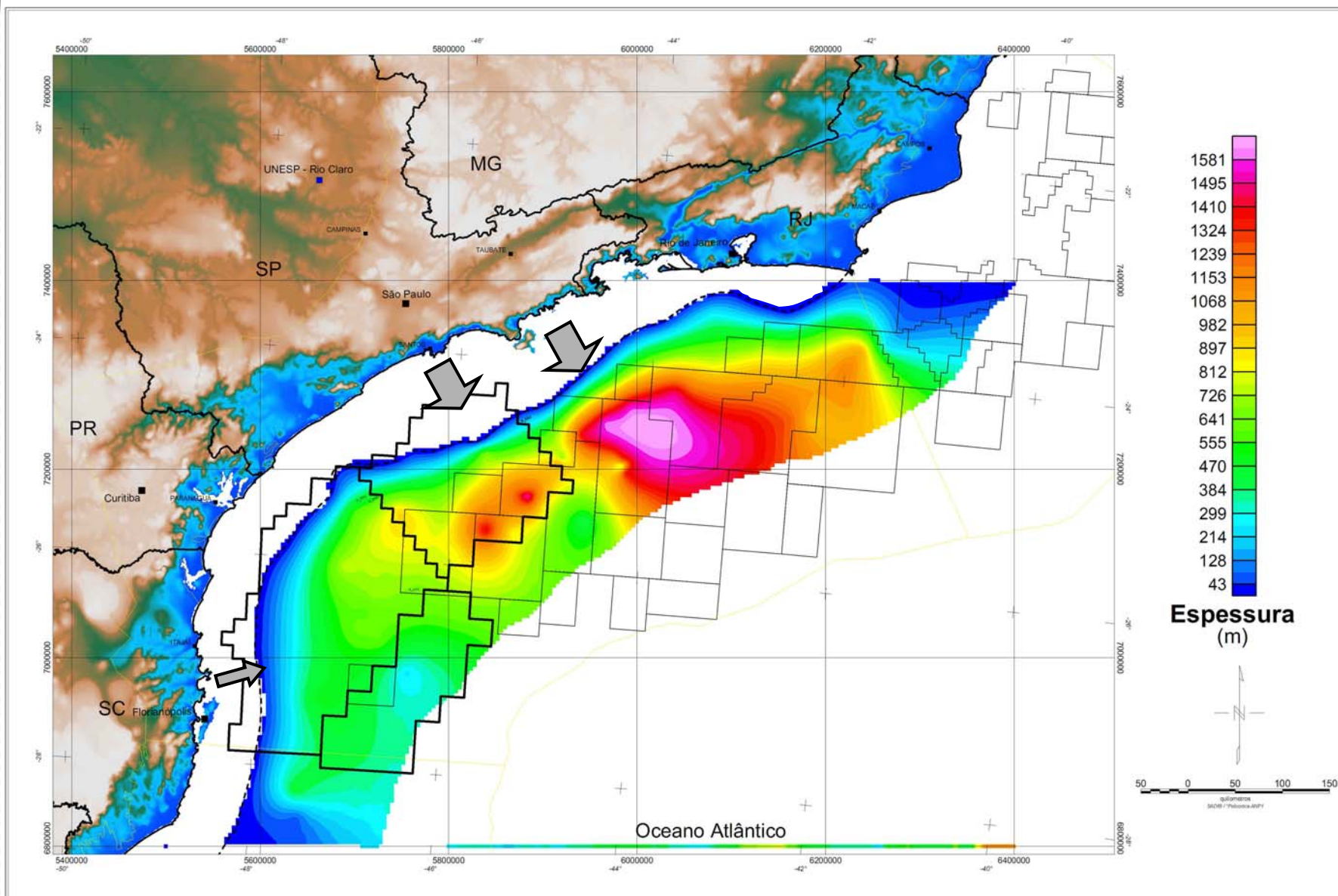
Mapa de Isópacas Cen/Con (H4-H6)



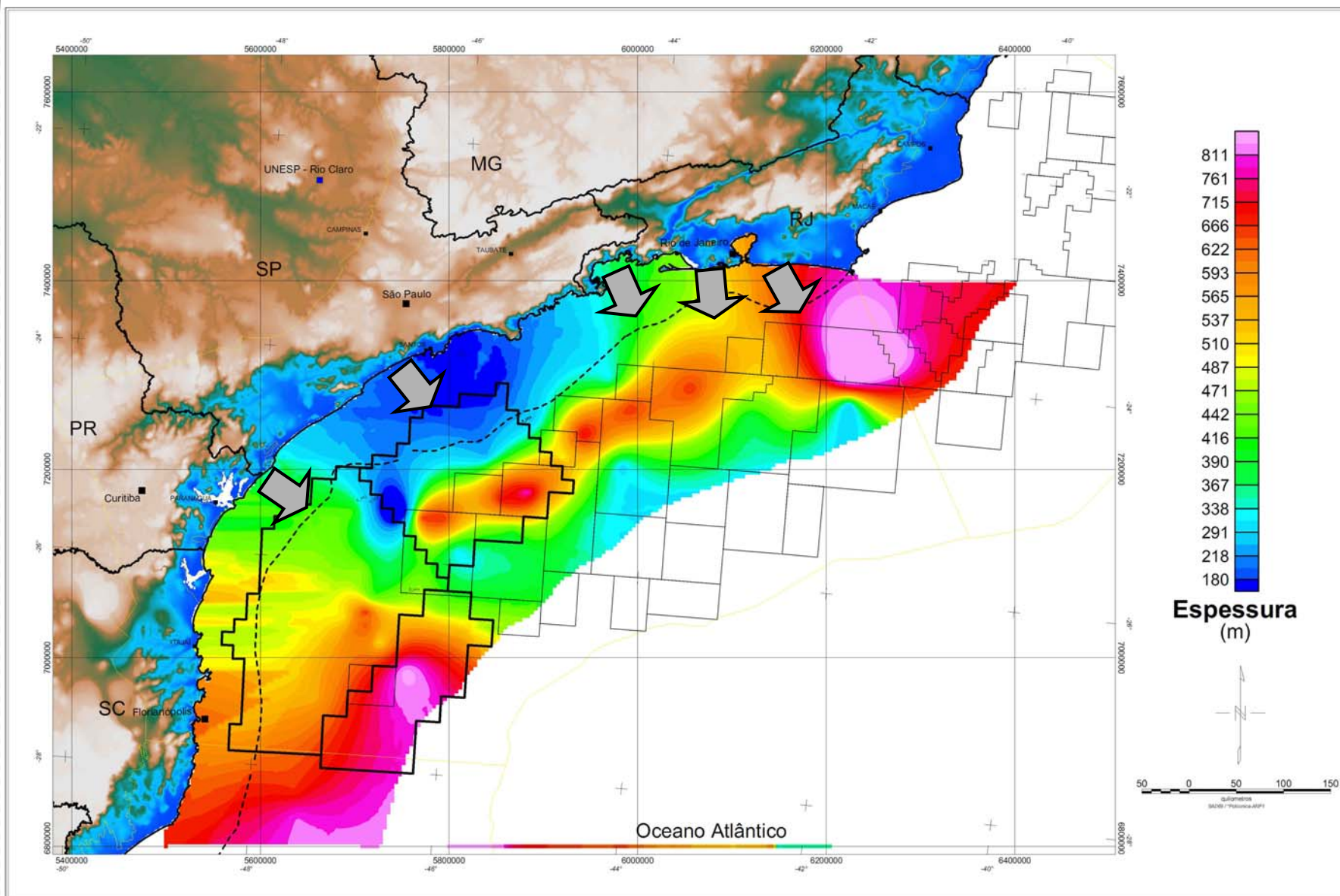
Mapa de Isópacas San/Cam.Inf (H6-H7)



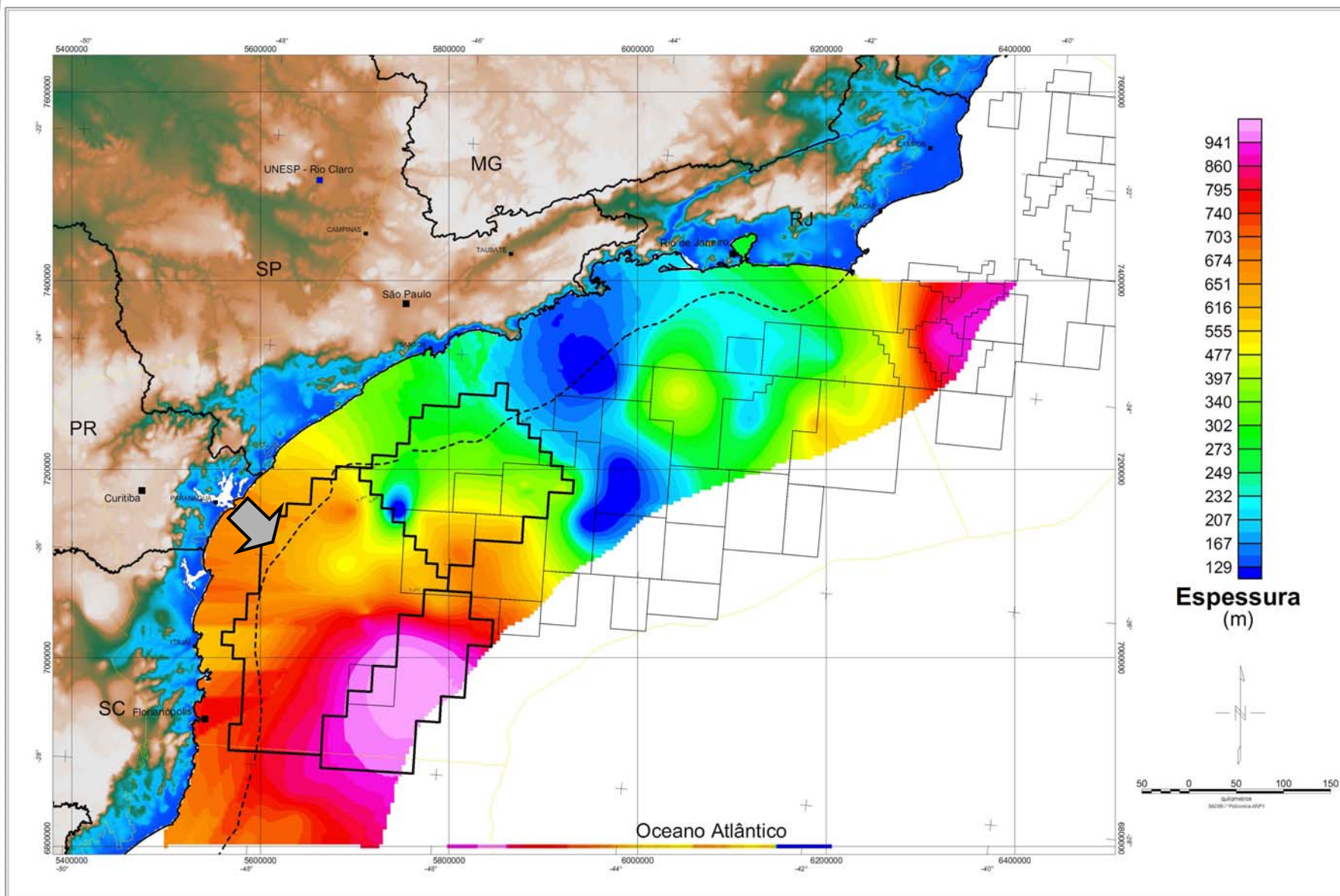
Mapa de Isópacas Cam.Sup/Mas (H7-H7.2)



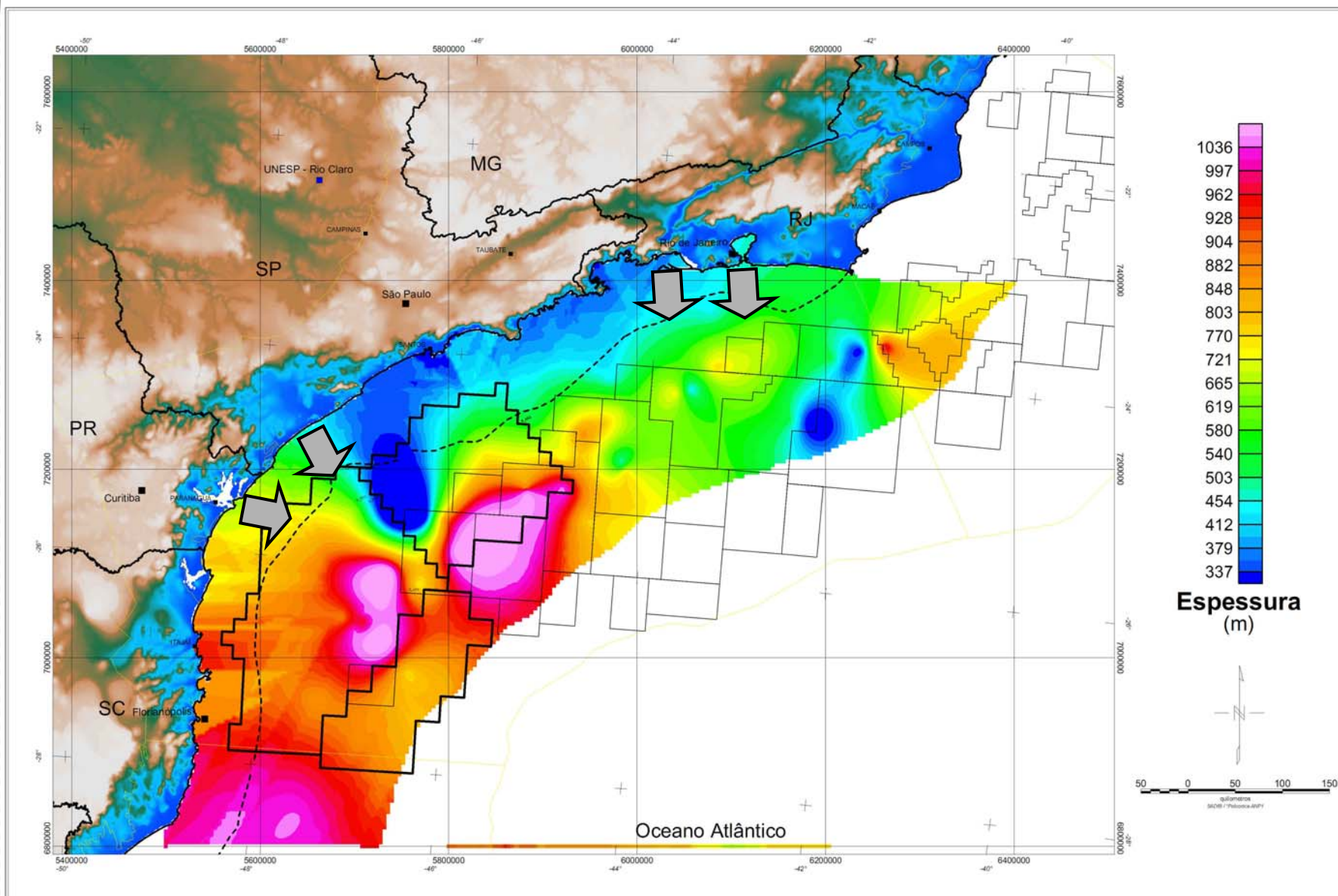
Mapa de Isópacas Pal/Oli.Inf (H7.2-H8.2)



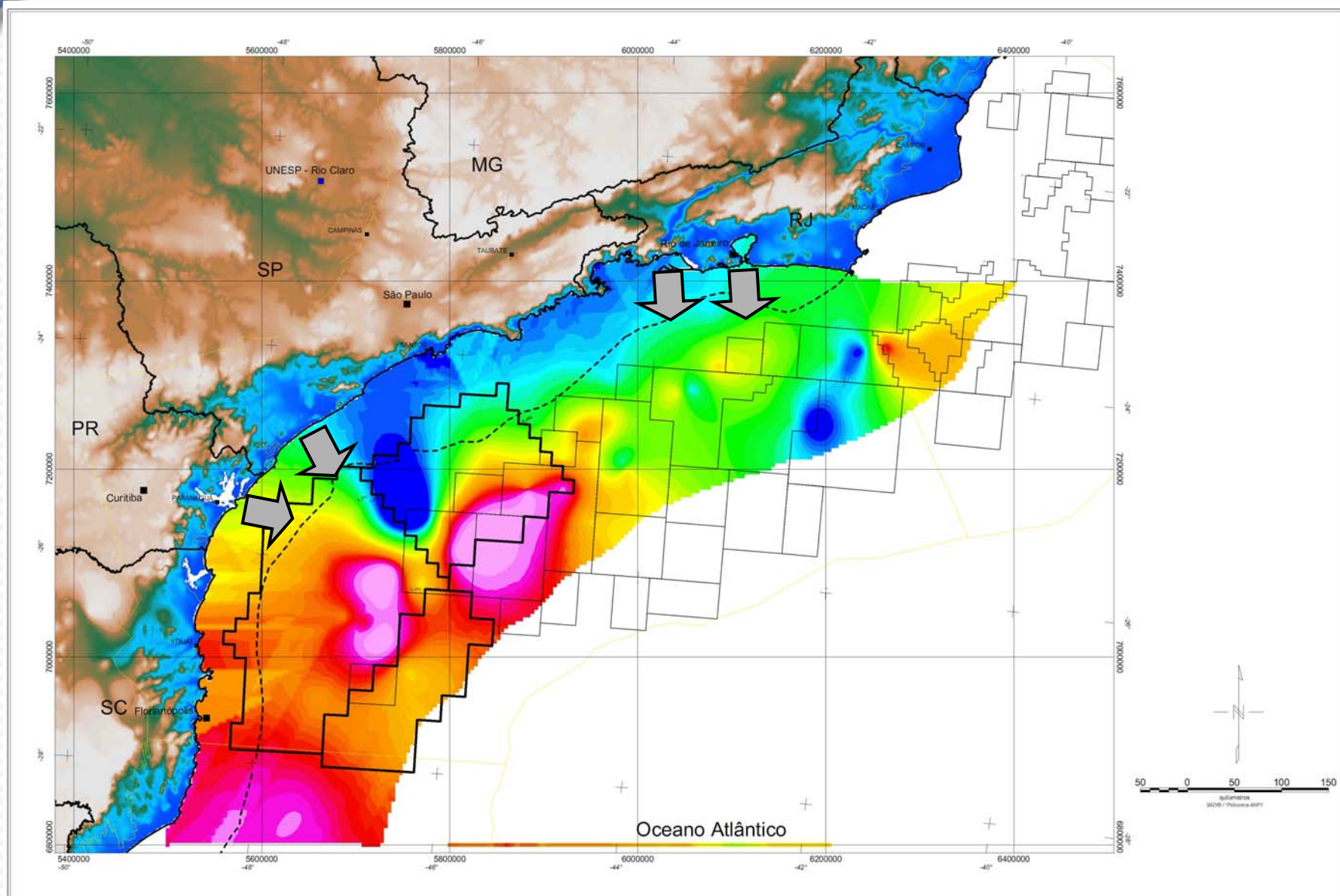
Mapa de Isópacas Oli.Sup/Mio.Inf (H8.2-H9)

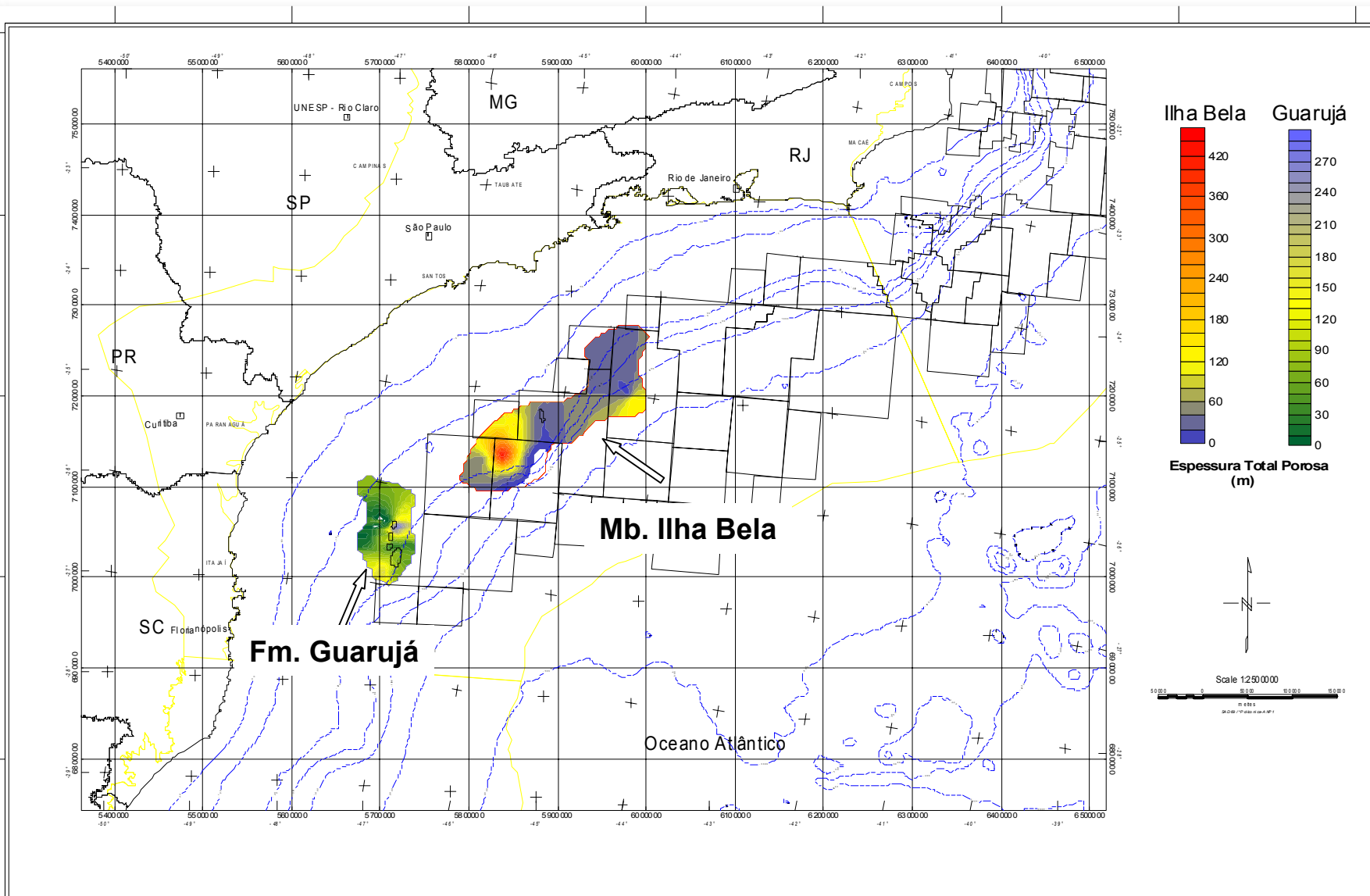


Mapa de Isópacas Mio.Sup/Rec. (H9-H10)



Migração de Depocentros





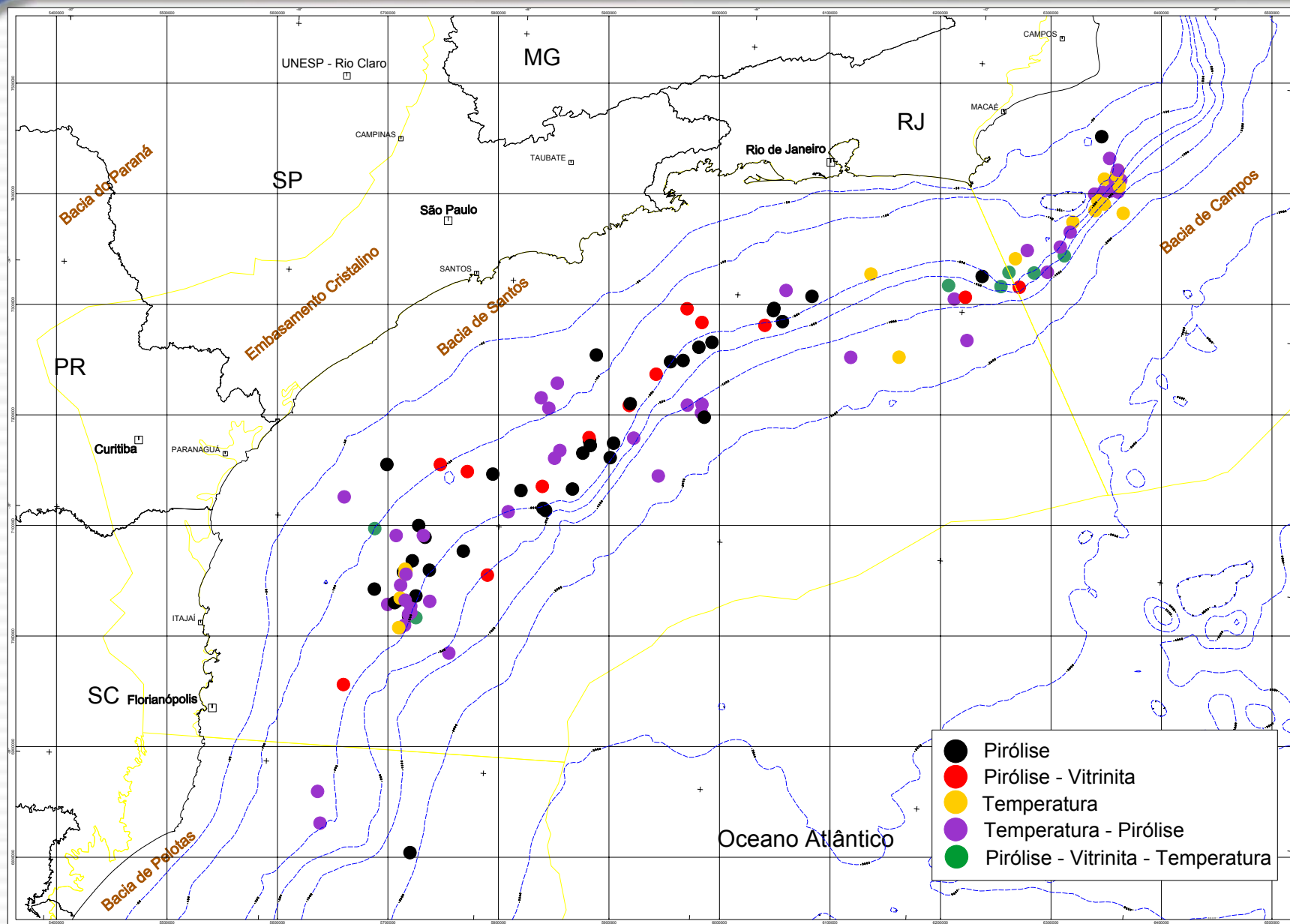
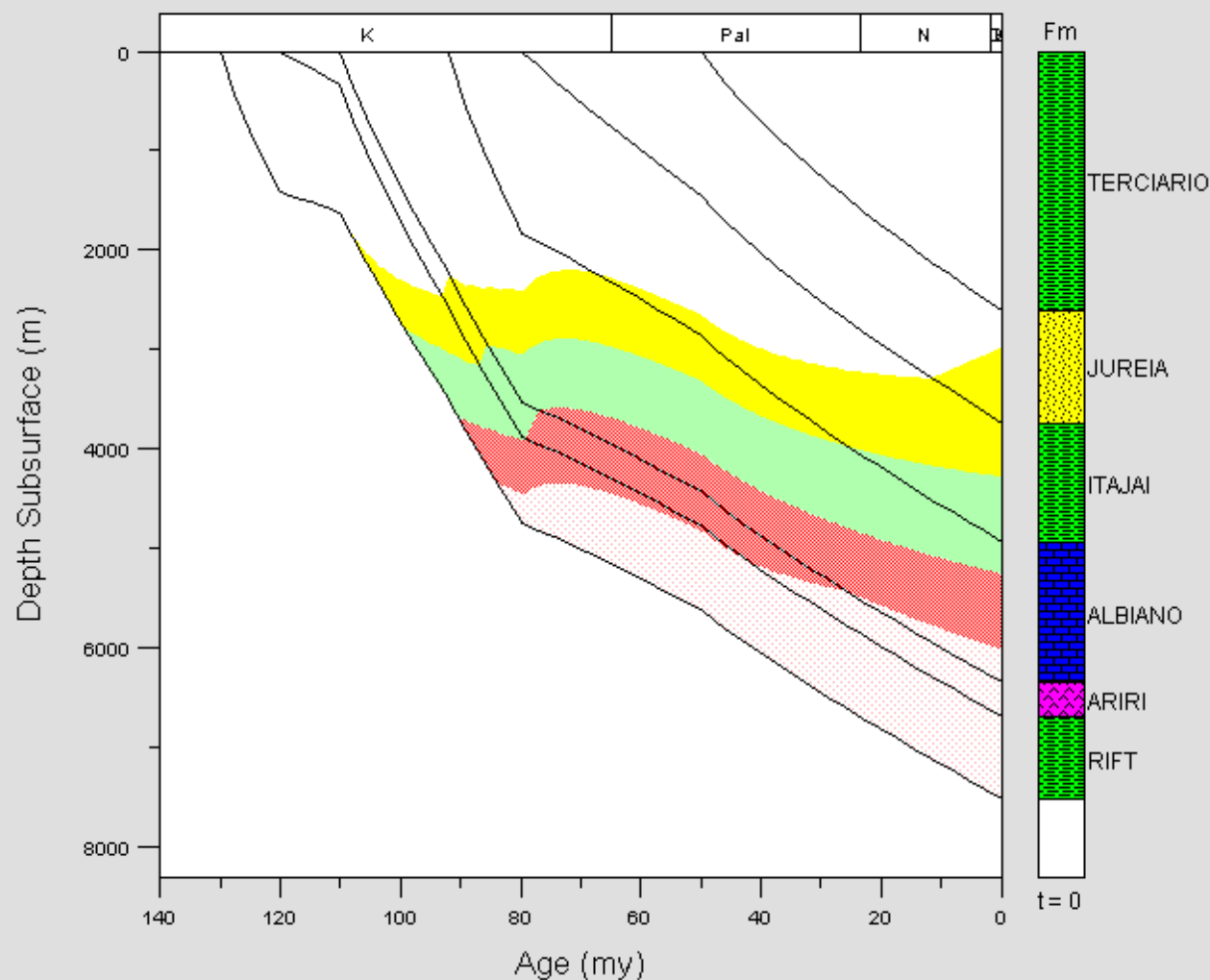
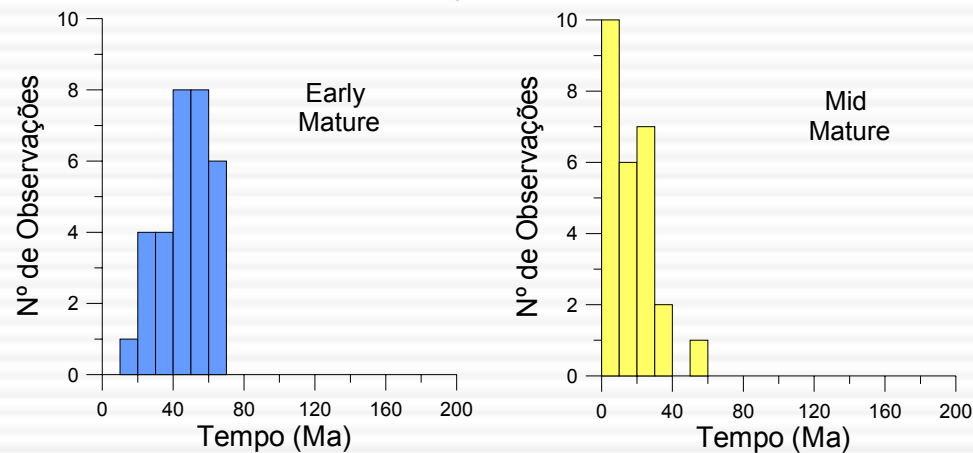


Gráfico de Maturação – TTI

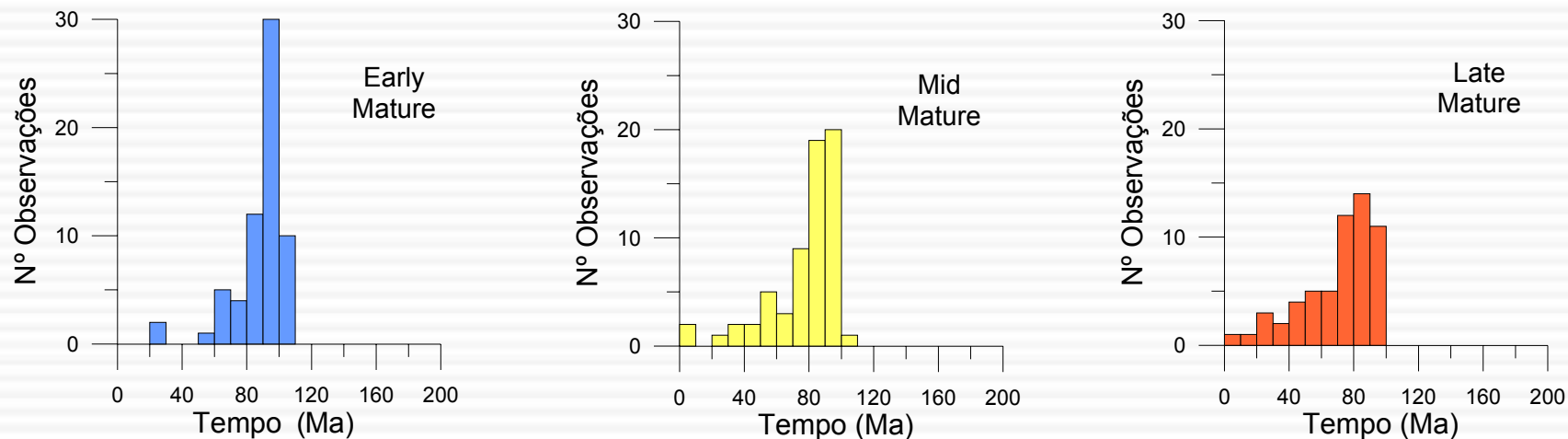
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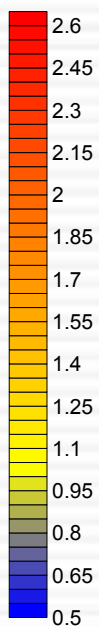
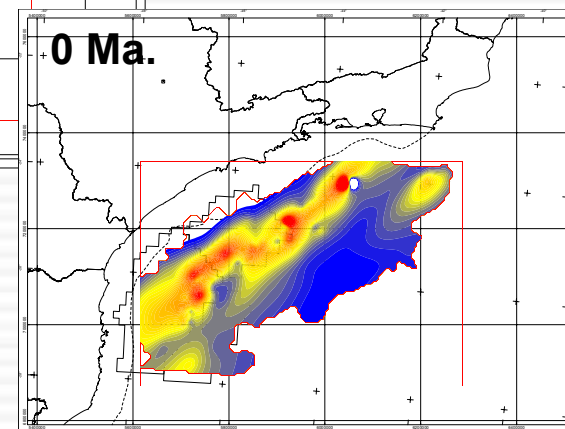
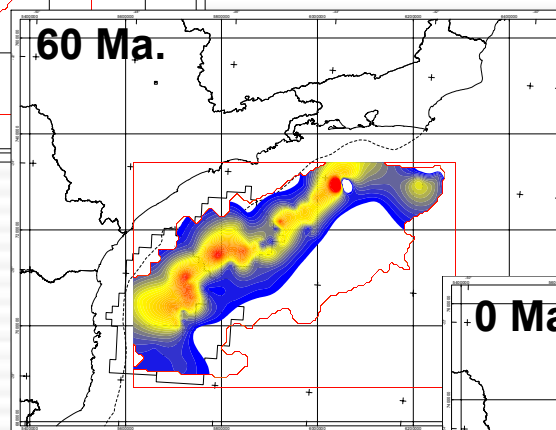
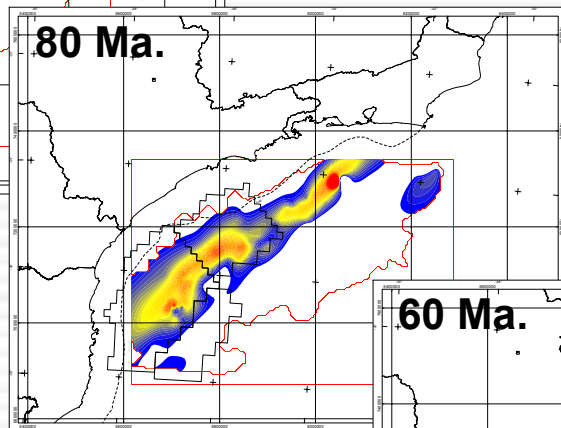
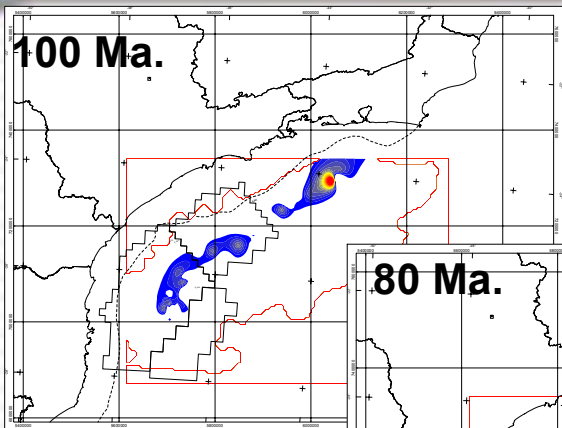


Fm. Itajaí - Açú

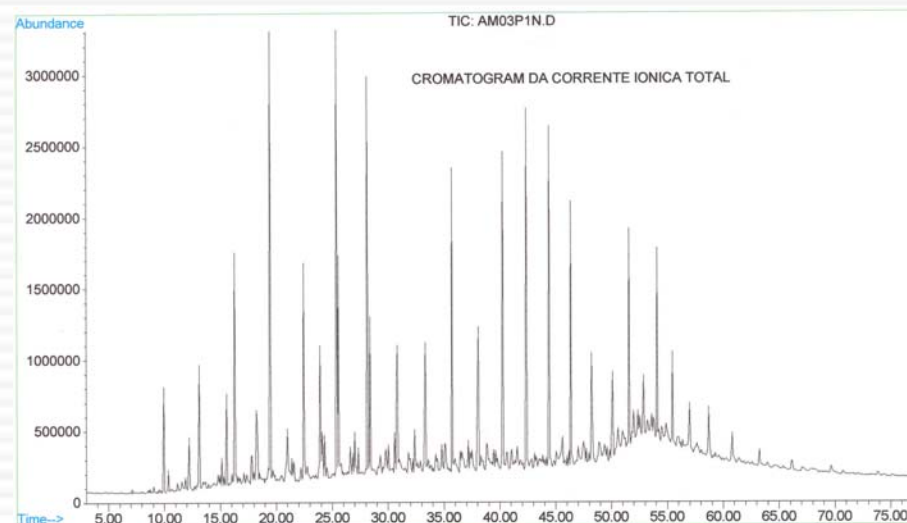
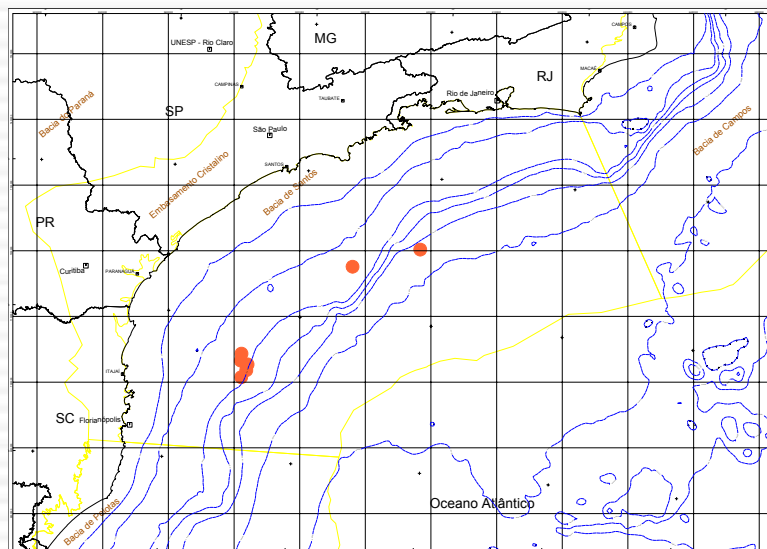


Fm. Guaratiba



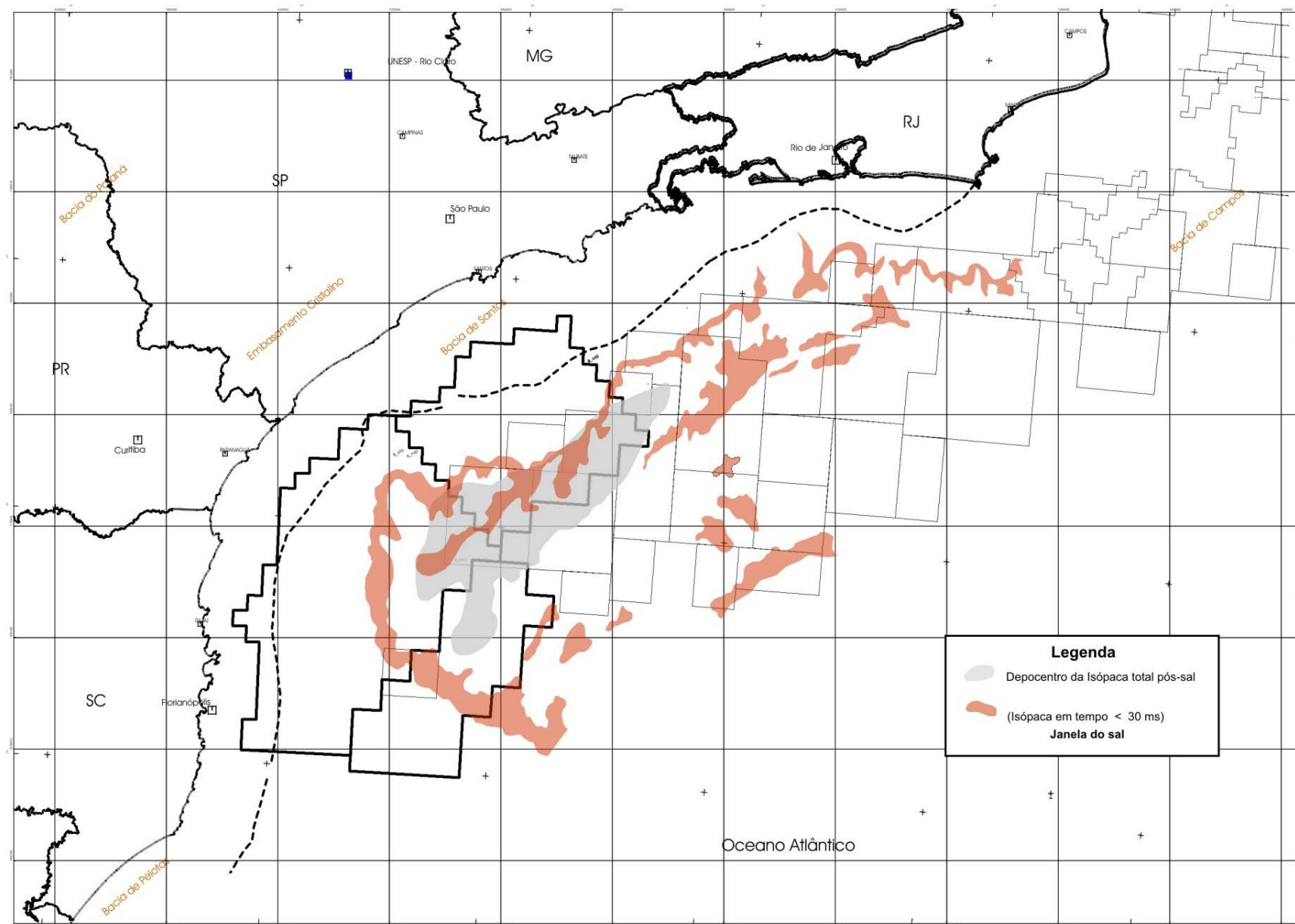


Maturidade LLNL

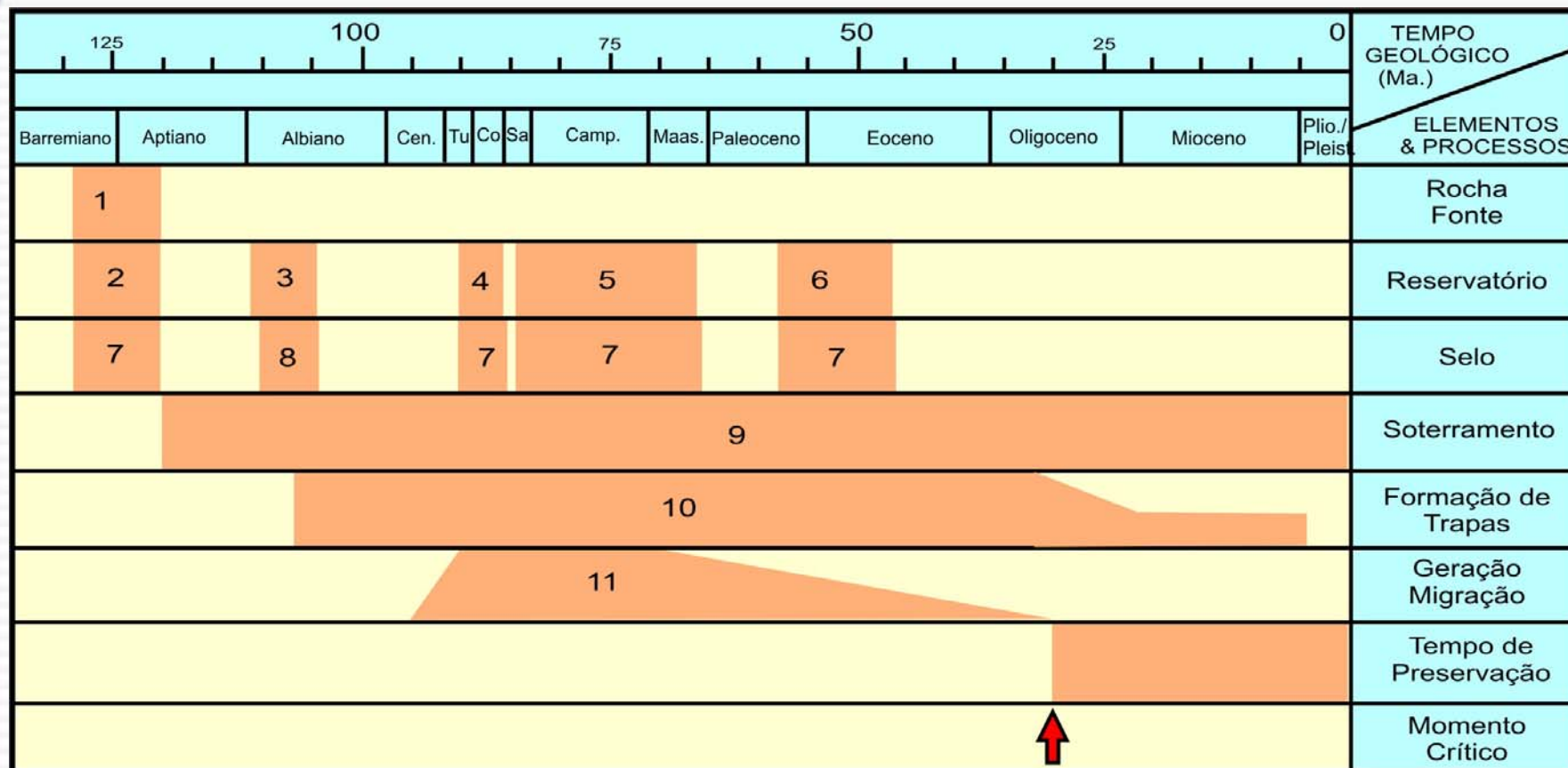


Parâmetro	AM03- 1BSS/0056 901322443	AM07- 1BSS/0075 940410554	AM13- 1BSS/0065 920466752	AM17- 7MLZ -0004D 931768847	AM22- EM0002BSS TRF01 – 920291452	AM24- 1BSS/0060 TRF02A – 950968621	AM25- 1BSS/0064 TRF02 – 9208285212
°API	40	29,9	42,8	-	41	39,7	42,7
P/F	2,9	4,6	3,3	3,8	3,9	4,8	3,0
Tm/Ts	0,46	0,94	0,14	0,36	0,66	0,17	0,30
Tm/(Tm+Ts)	32	48	12	26	40	15	23
Gamacerano	61	48	20	12	20	87	17
Hopano/Colestano	-	-	-	-	-	-	-
Colestano 20S/(20S+20R)	49	66	66	59	37	67	39

Mapa da Janela de Sal



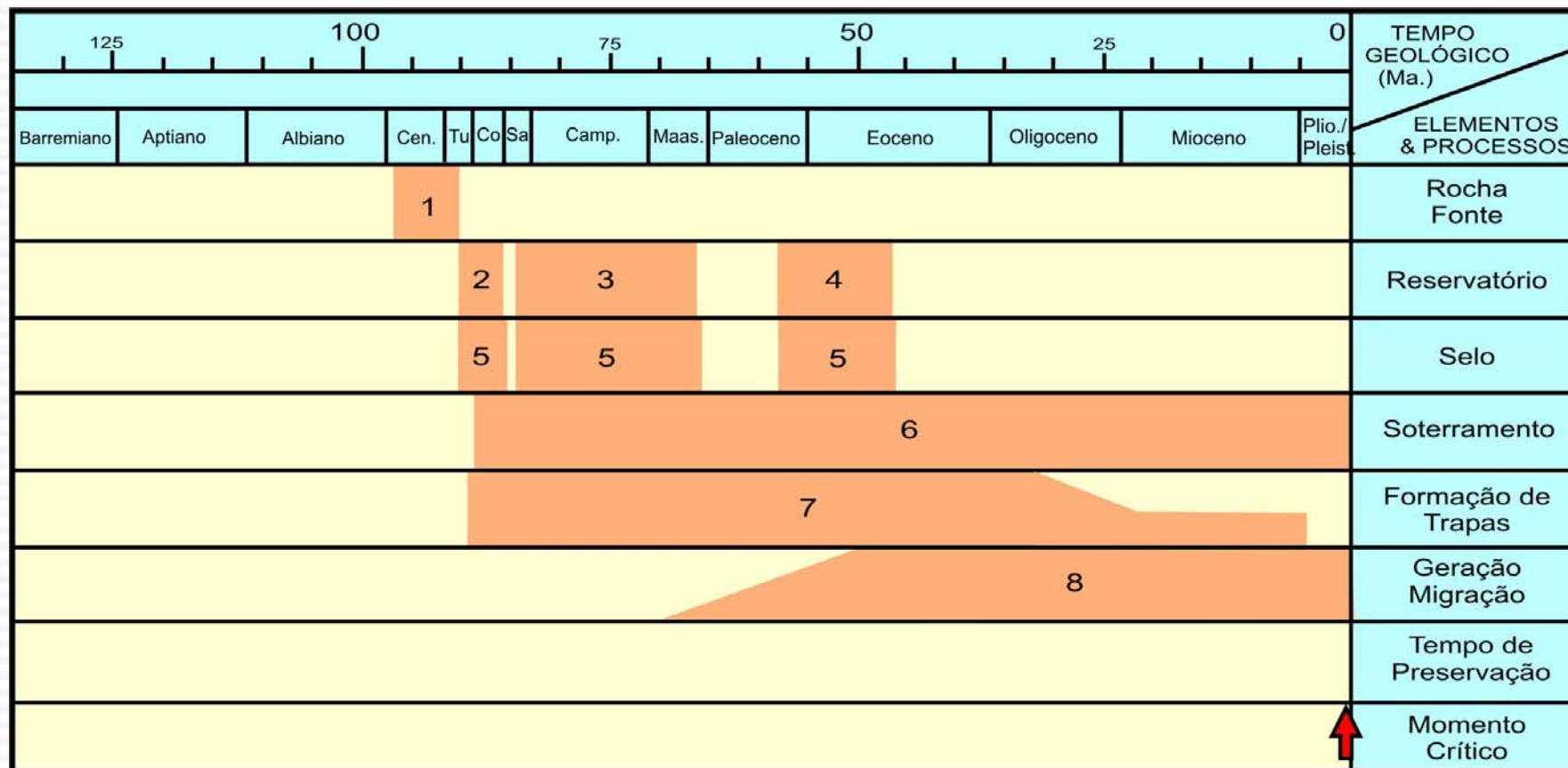
Carta de Eventos dos Sistemas Petrolíferos Gerador Fm. Guaratiba (Fase Rife)



LEGENDA:

- | | |
|----------------------------------|---|
| 1 - Fm. Guaratiba - gerador | 7 - Folhelhos intercalados |
| 2 - Fm. Guaratiba - reservatório | 8 - Calcilutitos Intercalados |
| 3 - Fm. Guarujá | 9 - Seção pós-rifte |
| 4 - Mb. Ilha Bela | 10 - Halocinese - fase principal |
| 5 - Turbiditos Ksup. | 11 - Fase principal de geração-migração |
| 6 - Areias Paleoceno-Eoceno | |

Carta de Eventos dos Sistemas Petrolíferos Gerador Fm. Itajaí-Açu (Cen.-Tur.)



LEGENDA:

- | | |
|-----------------------------|--|
| 1 - Fm. Itajaí-açu | 5 - Folhelhos intercalados |
| 2 - Mb. Ilha Bela | 6 - Seção pós-rifte (pós Turoniano) |
| 3 - Turbiditos Ksup. | 7 - Halocinese |
| 4 - Areias Paleoceno-Eoceno | 8 - Fase principal de geração-migração |

1. Seqüência Rifte ocorre ao longo de toda Bacia, mais espessa e contínua na porção Norte. Na porção Sul, foi identificada uma grande calha, localizada a Oeste do *trend* de Tubarão.
2. Fm. Guaratiba é a principal unidade geradora da bacia, inferida através de análises de óleo com características de ambiente lacustre salino.
3. Pico de geração ocorre do Turoniano ao Maastrichtiano. No entanto, o efeito chaminé do sal pode ter retardado a maturação.
4. Depocentro da seqüência eo-mesoalbiana de água rasa está localizado na porção Sul da bacia. No Cretáceo Superior há migração do depocentro do Sul para Norte. Padrão muda drasticamente no Terciário Inferior (2 depocentros).

5. Progradação de cunhas clásticas (Santoniano ao Maastrichtiano) promoveu descolamento da seqüência salina, *rafting*, formação de muralhas e de janelas, colocando tais cunhas em contato direto com o rifte/embasamento.
6. *Plays* principais: Calcários do Eo-Mesoalbianos, Turbiditos Mb. Ilha Bela, Turbiditos do Ksup, Areias do Paleoceno/Eoceno; Trapa estrutural ou mista.
7. *Plays* não testados: Reservatórios siliciclásticos da Fm. Guaratiba em trapas estruturais ou mistas.