

**CARACTERIZAÇÃO ATRAVÉS DE
DADOS DE GEORRADAR
DA PLANÍCIE COSTEIRA DO
LITORAL NORTE DO ESPÍRITO
SANTO**

Organização da Fala:

- 1) Linha de Pesquisa
- 2) Contexto
- 3) Seções GPR (aquisição e processamento)
- 4) Resultados
- 5) Considerações Finais

GEOFÍSICA - OBJETIVOS

Caracterizar a arquitetura sedimentar dos depósitos costeiros através do georradar

Duas etapas de aquisição:

Regional (grande fase de preenchimento-superfícies maiores)

Local (detalhe da geometria dos depósitos sedimentares)



Milene Fornari

Eduardo G. Barboza

Felipe Caron

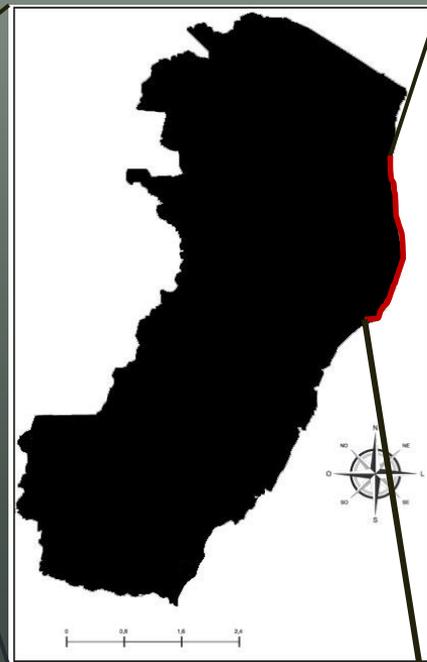
Maria Luiza C.C. Rosa



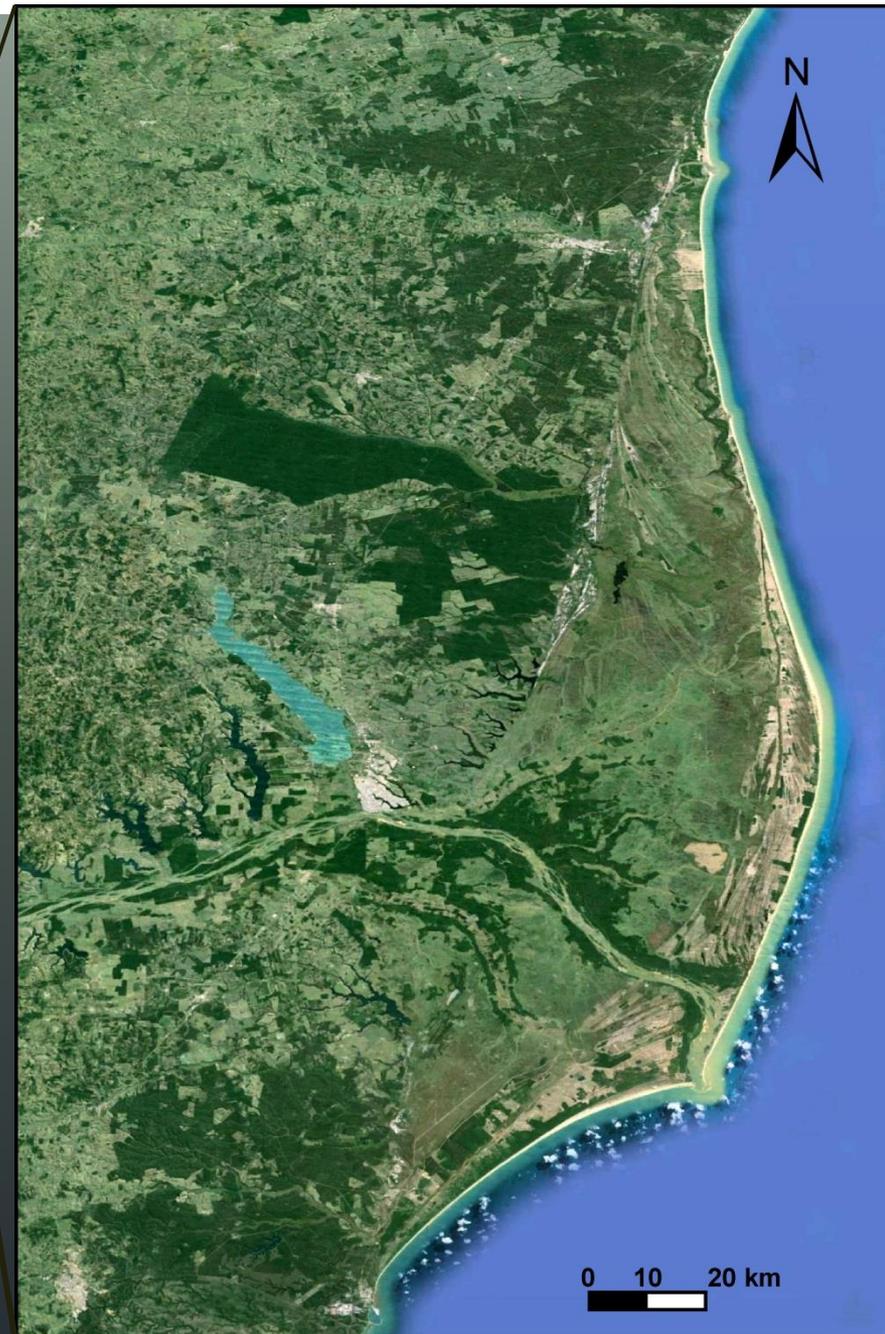
CONTEXTO



SEÇÕES GPR



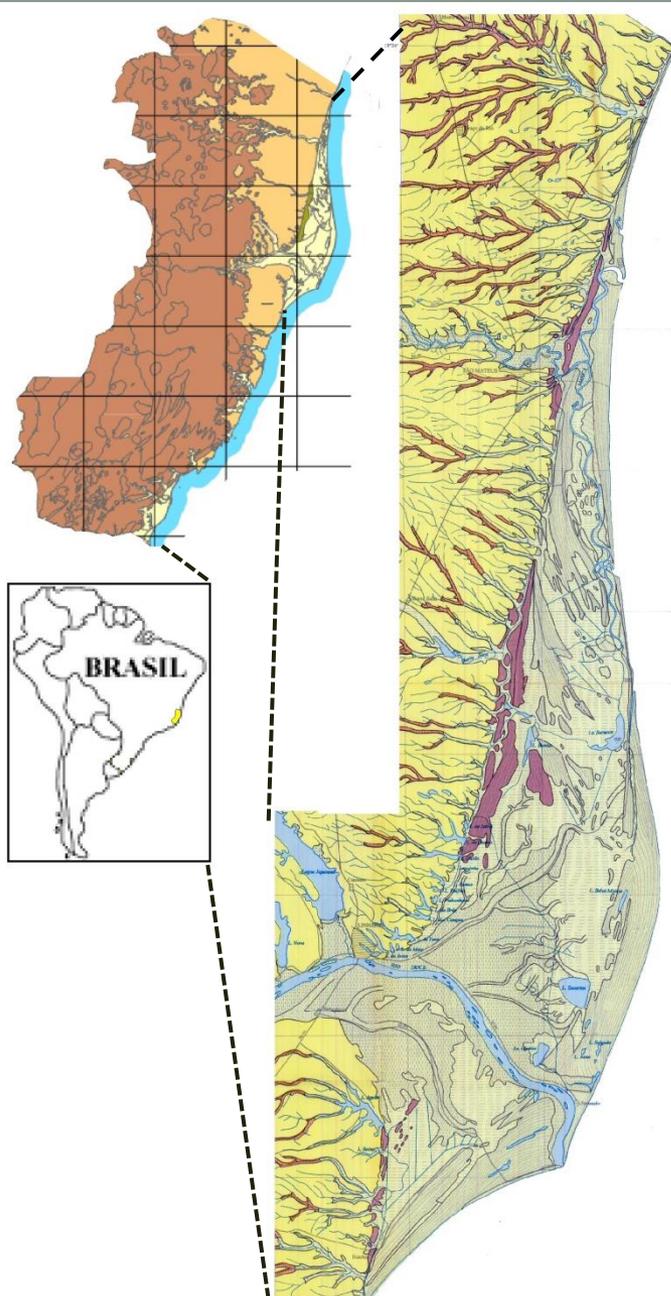
RESULTADOS



C. FINAIS



A PCES representa a porção mais jovem, atualmente emersa, da BACIA DO ESPÍRITO SANTO



Marinho Holocênico

Lagunar Holocênico

Fluvial Holocênicos (delta intralagunar)

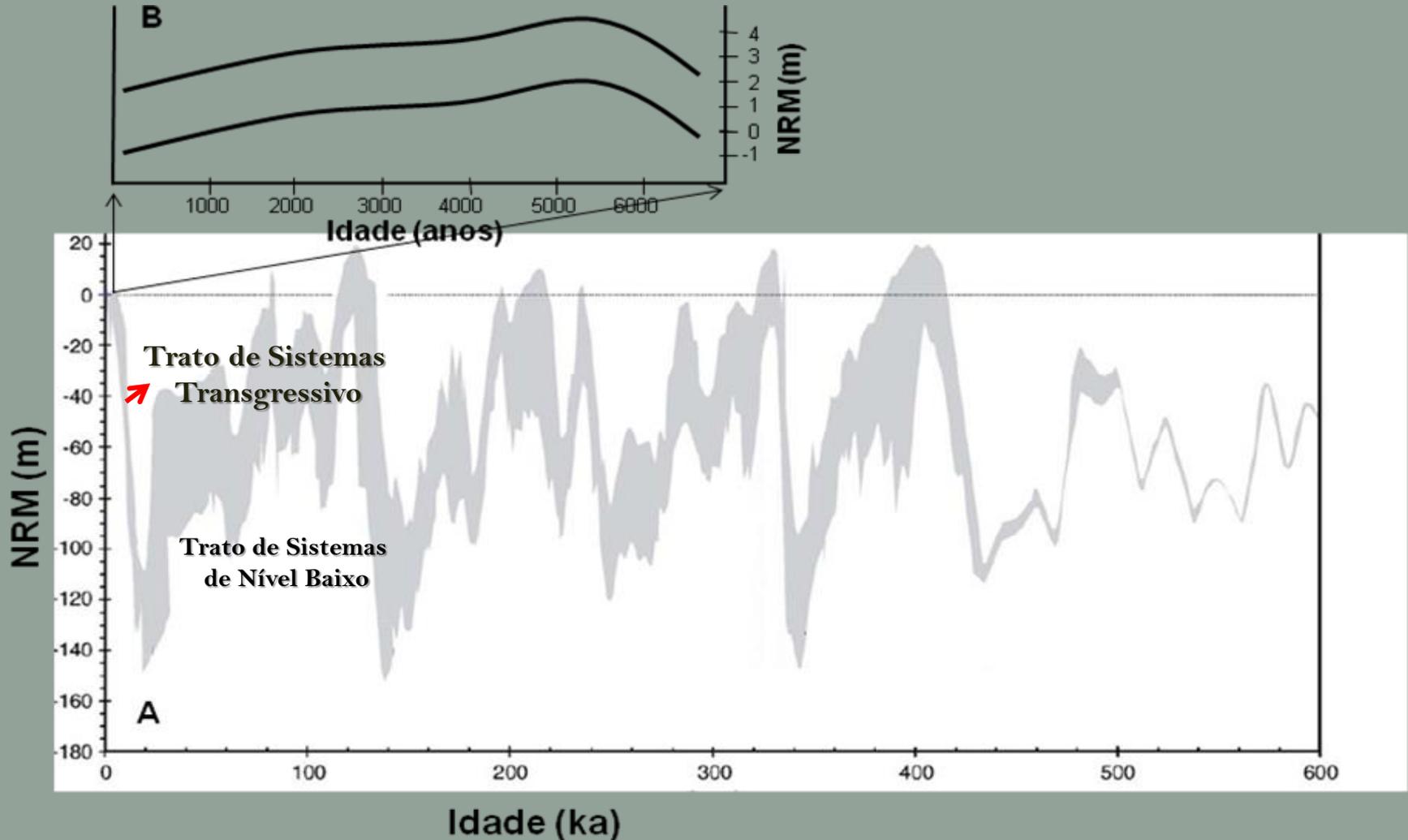
Marinho Pleistocênico



Sequência deposicional de alta frequência

Trato de Sistemas de Nível em Queda

Trato de Sistemas de Nível Alto



Comportamento não uniforme da linha de costa:

Setores em progradação

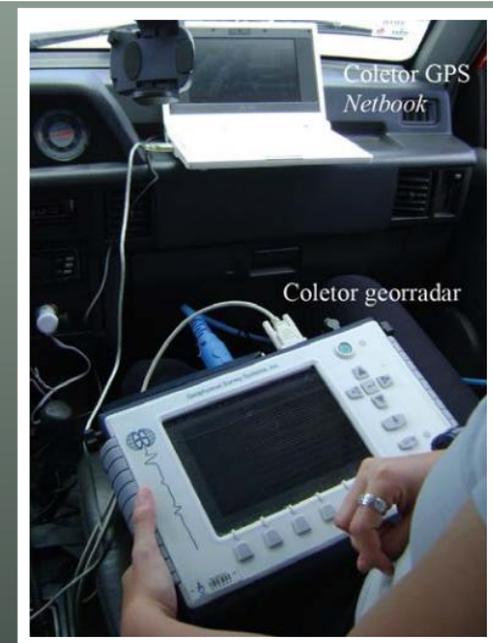
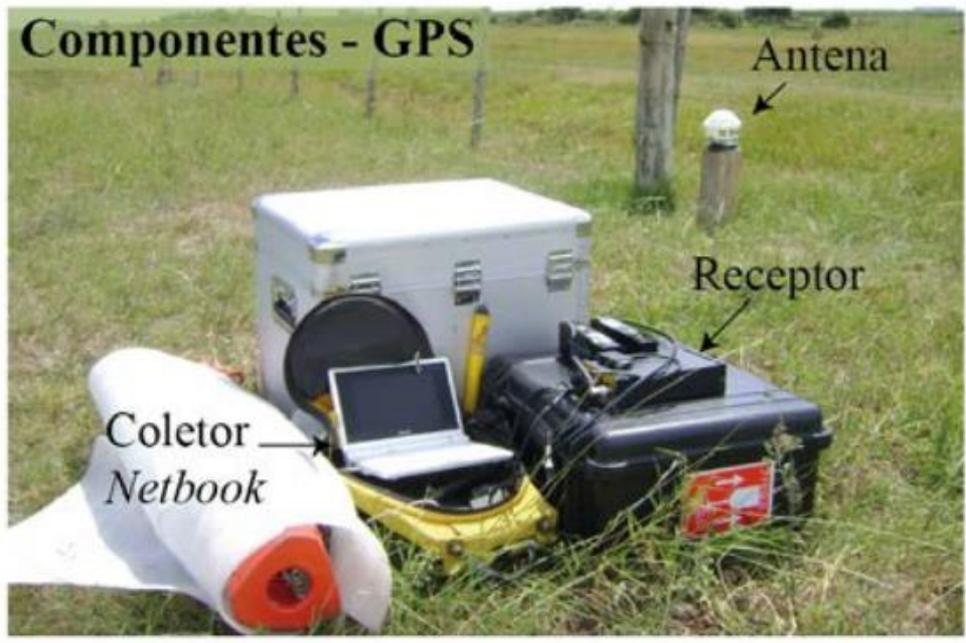
Setores em retrogradação

Ondas
NE-E
SE-S

Albino et al. 2000

Deriva litorânea resultante S

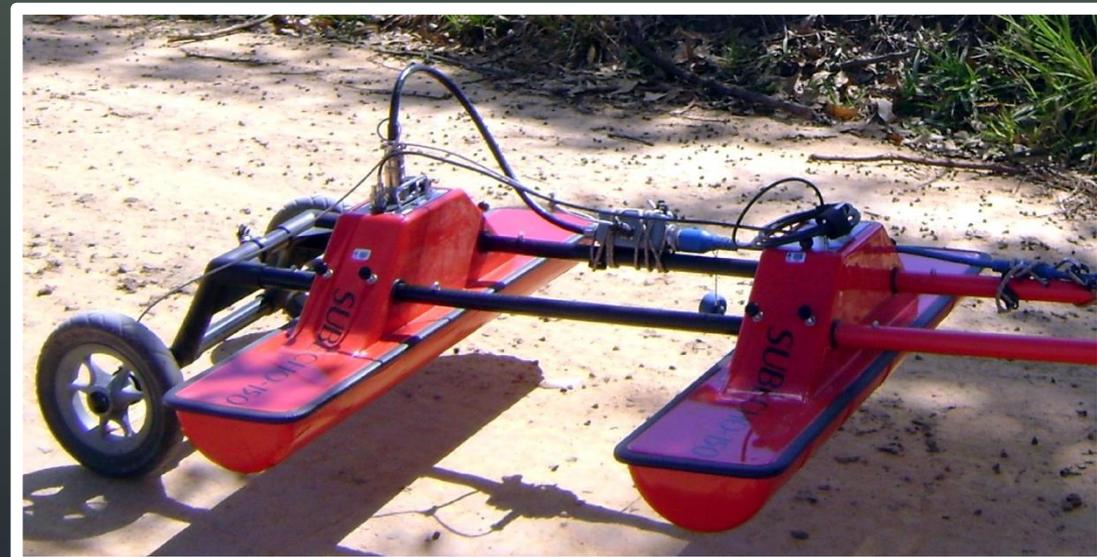


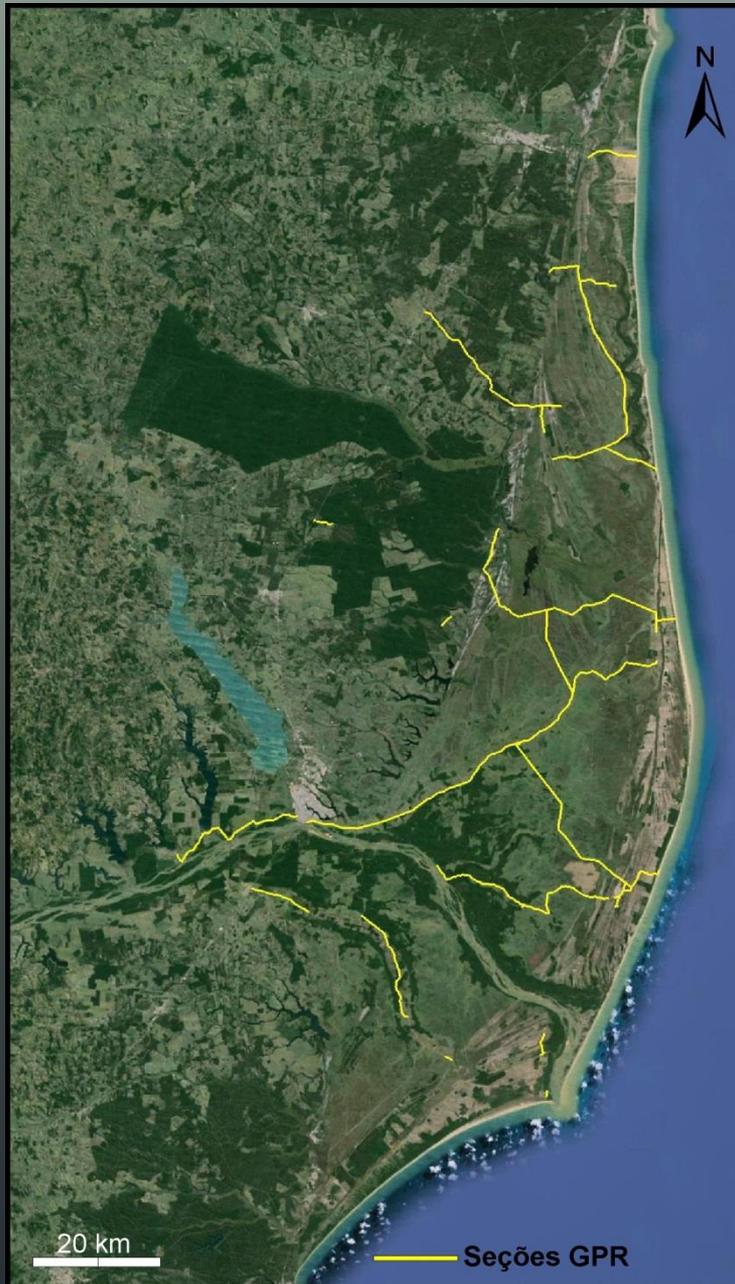




Antenas 150 MHz

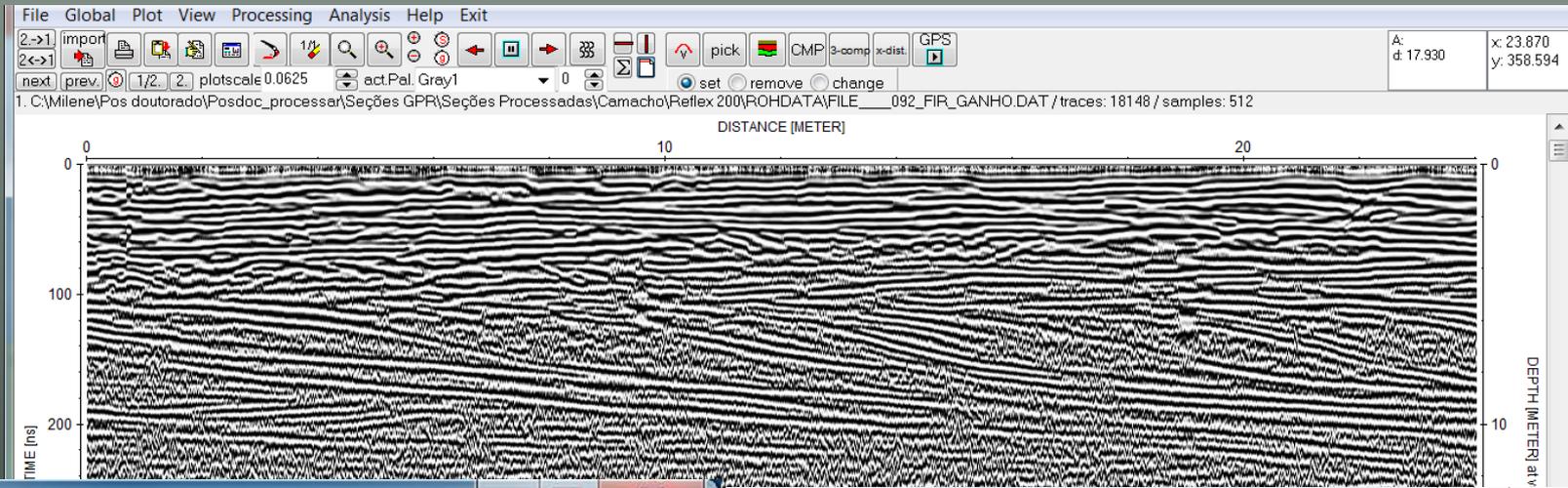
Unidade e módulo amplificador





342 km = 118 seções
Perpendicular (*dip*) e
oblíqua a paralela
(*strike*)
a linha de costa

342 km = 118 seções



Reflex-Win

Project Modules Global Help Exit

Reflexw_Modules

- 2D-dataanalysis
- 3D-datainterpretation
- modelling
- CMP-vel.analysis
- travelttime analysis

REFLEXW the 2D processing and 2D/3D interpretation software for

- GPR reflection seismics
- refraction

ReflexW Version 7.0.1 from 15.01.2013
copyright by K.J. Sandmeier
All rights reserved
licence number 257
licenced to
USP Inst. de Geofisica

RADAN

File View Project Help

RADAN
Patent Pending

Ready

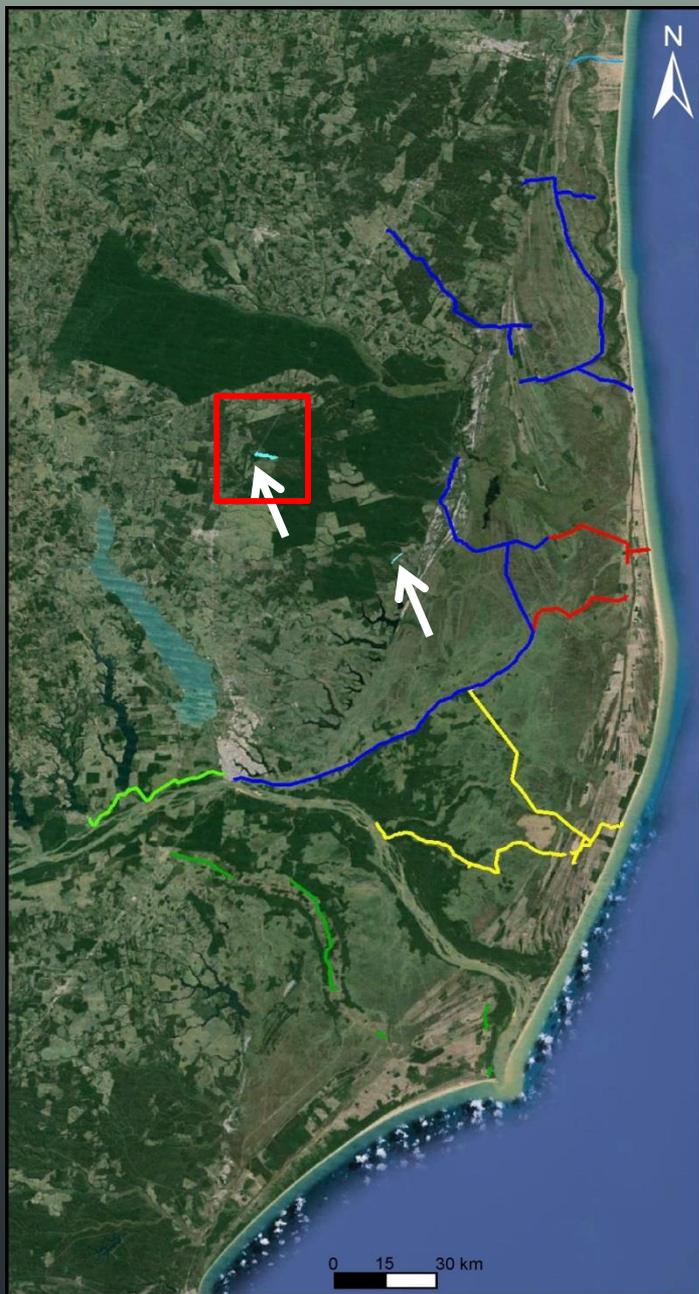
- 1) Filtros
- 2) Ganhos
- 3) Correção Topográfica



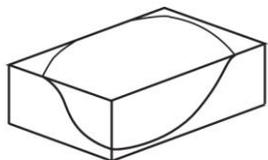
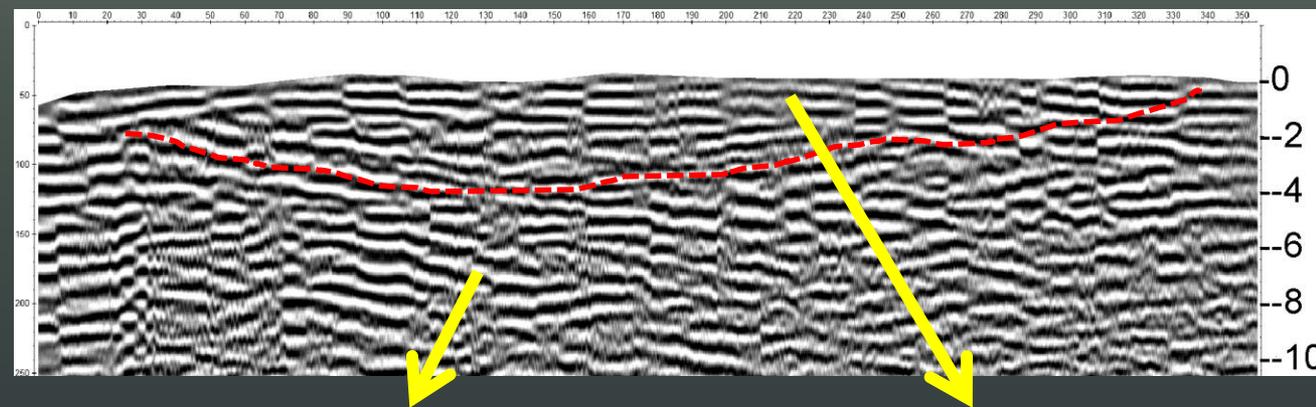
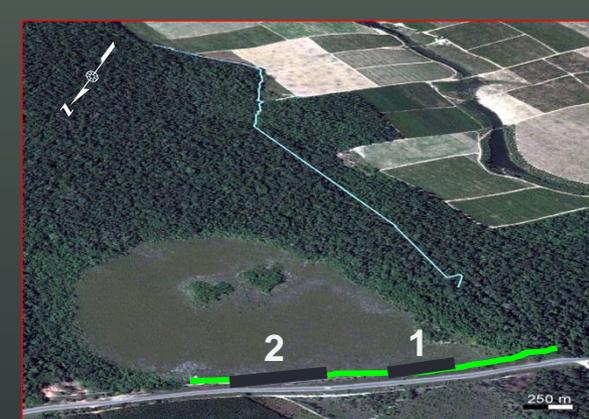
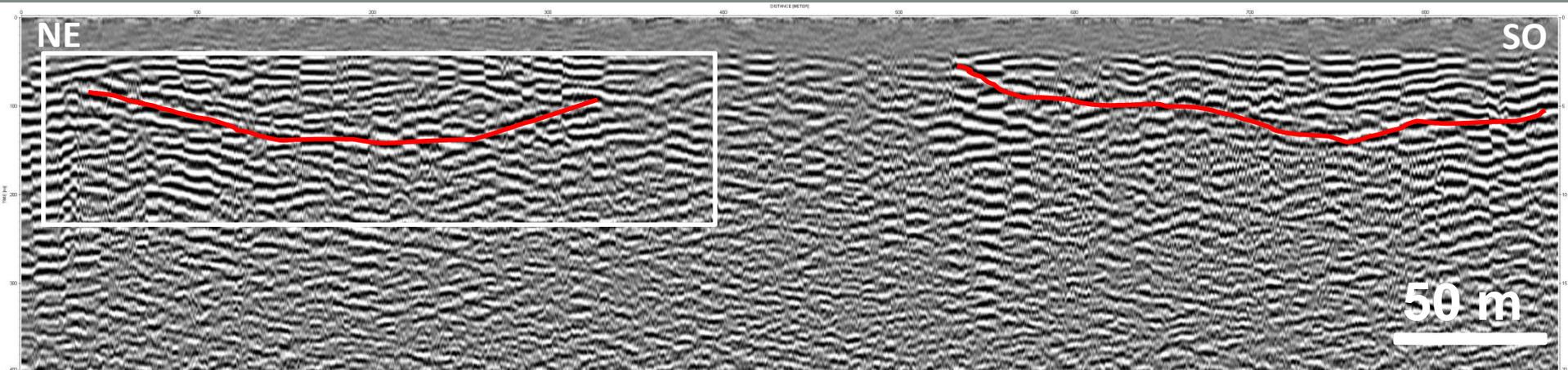
Elementos Morfológicos:

- Campos nativos
- Planície de cordões
- Planície deltaica

Campos nativos

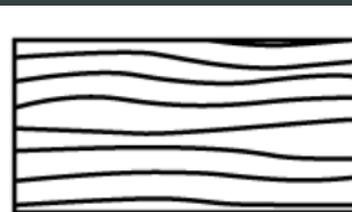


Campos nativos

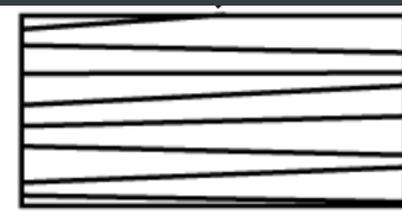


Trough

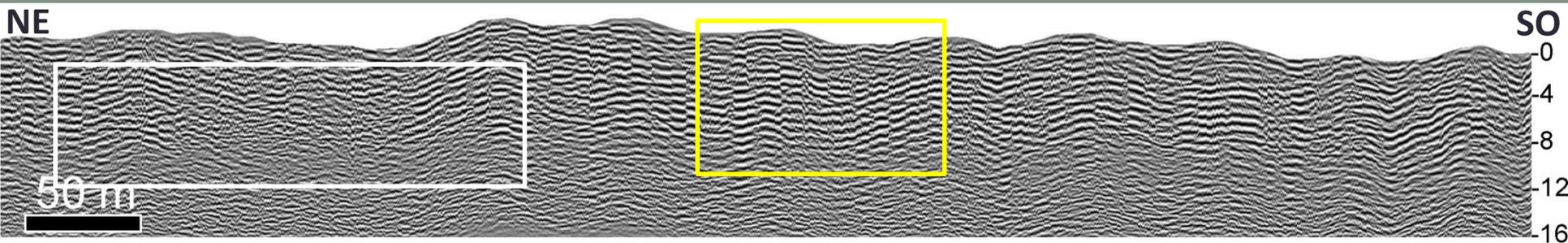
Geometria Externa



Subparalela

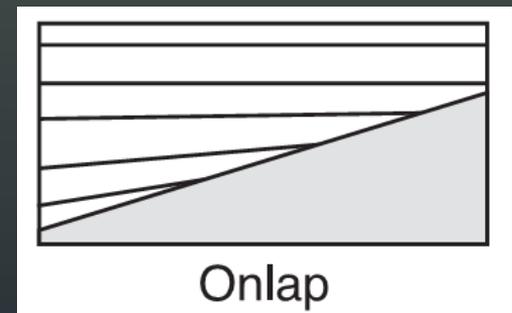
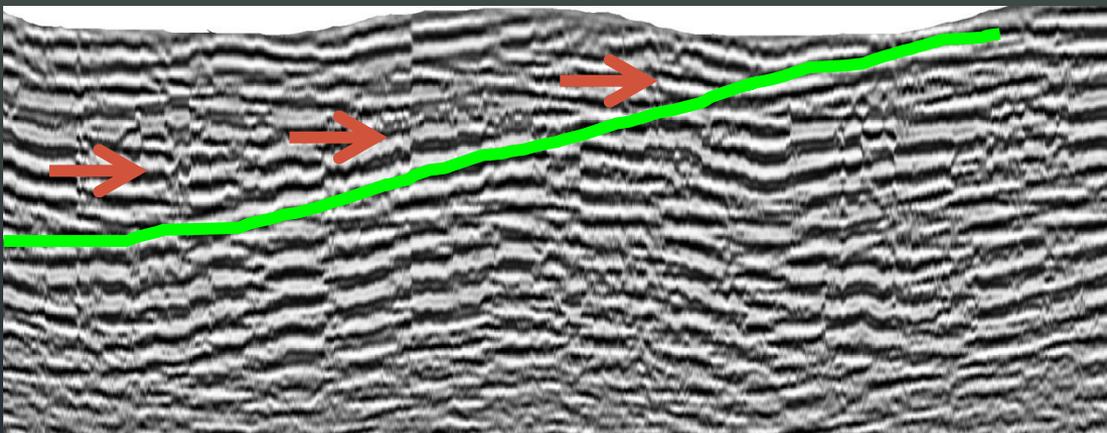
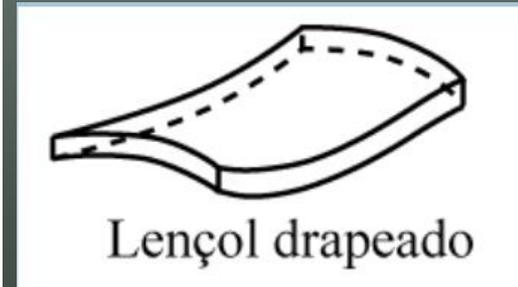
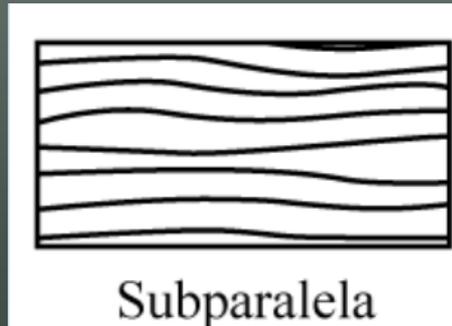
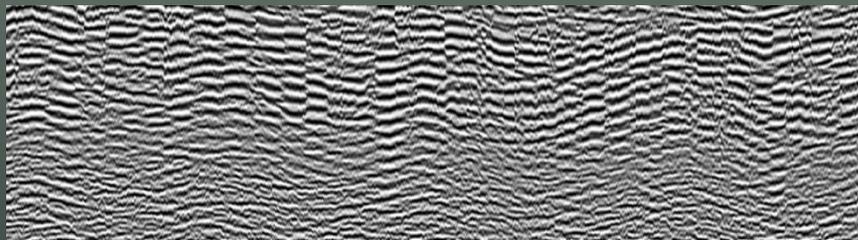


Oblíqua



Configuração Interna

Geometria Externa



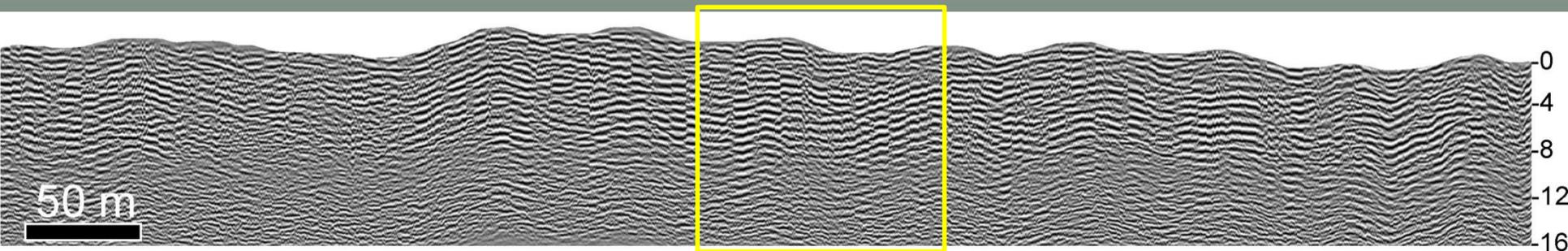
Terminação dos Refletores

CONTEXTO

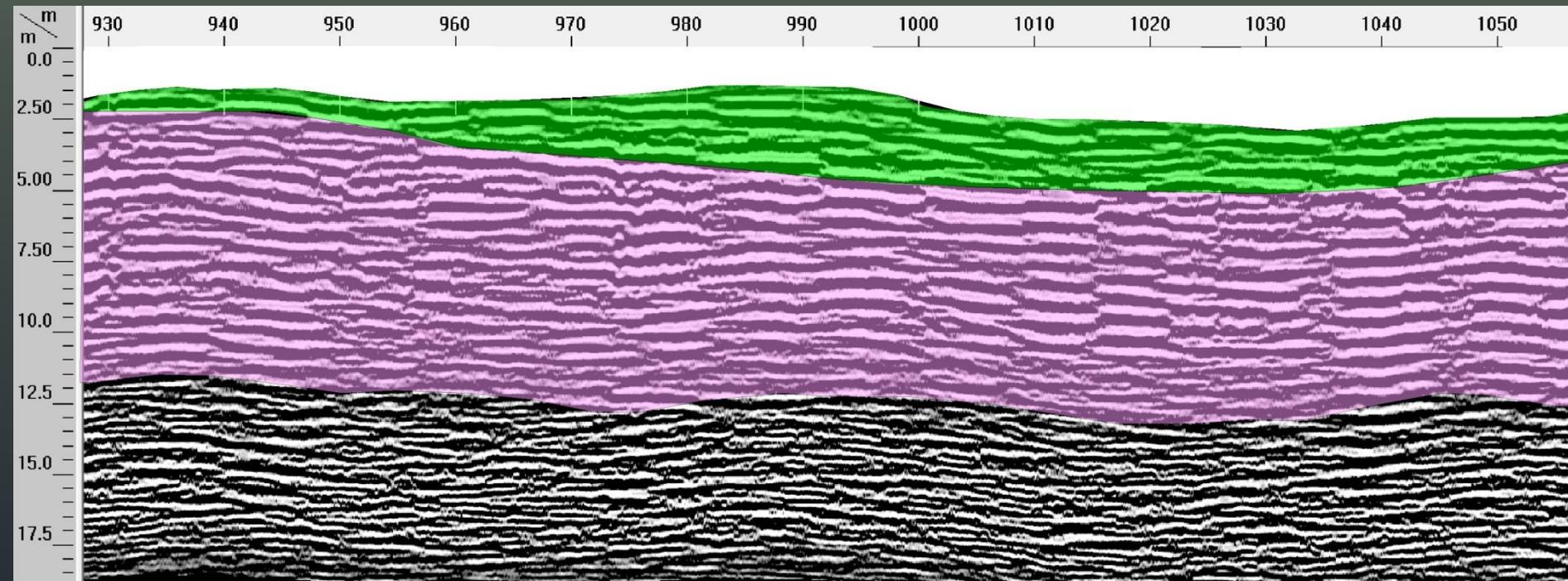
SEÇÕES GPR

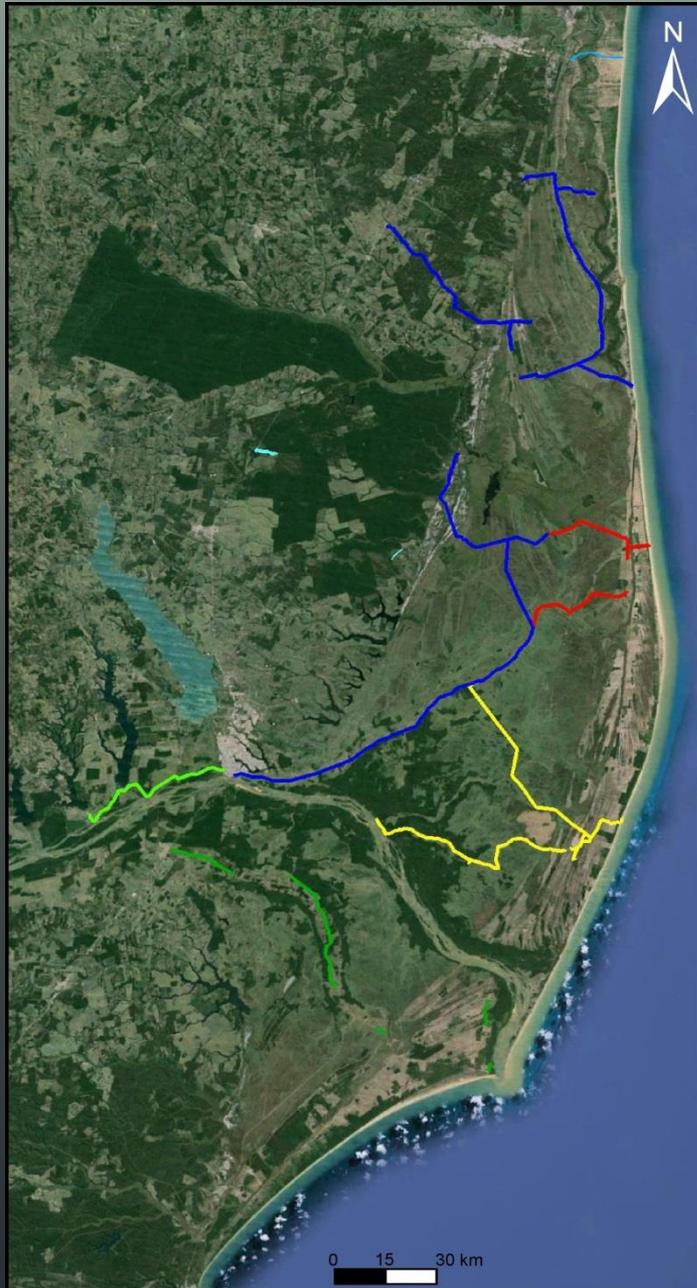
RESULTADOS

C. FINAIS



Horizontes de Solo

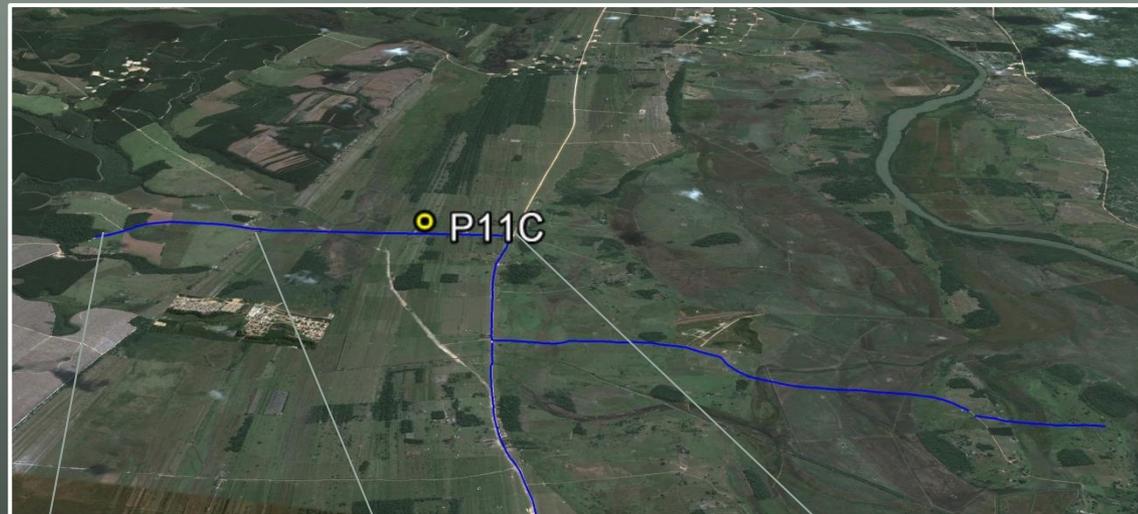




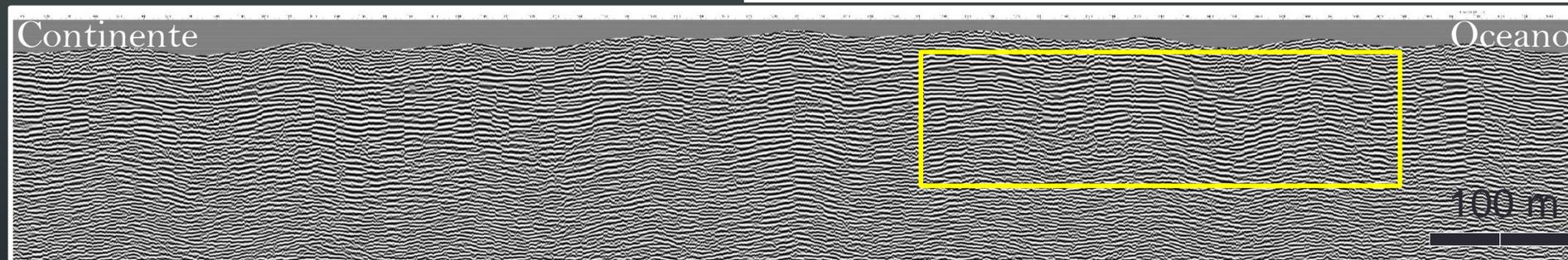
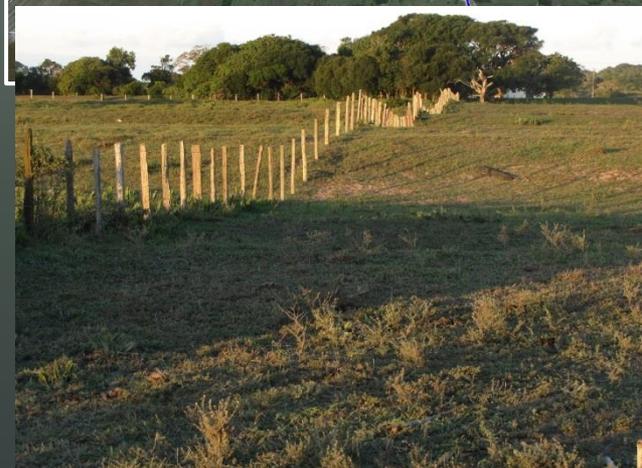
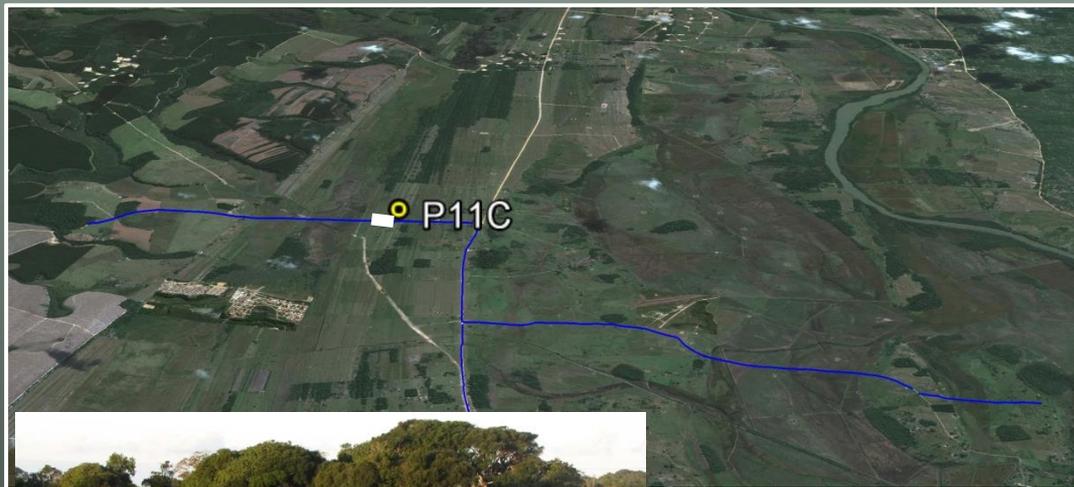
Elementos Morfológicos:

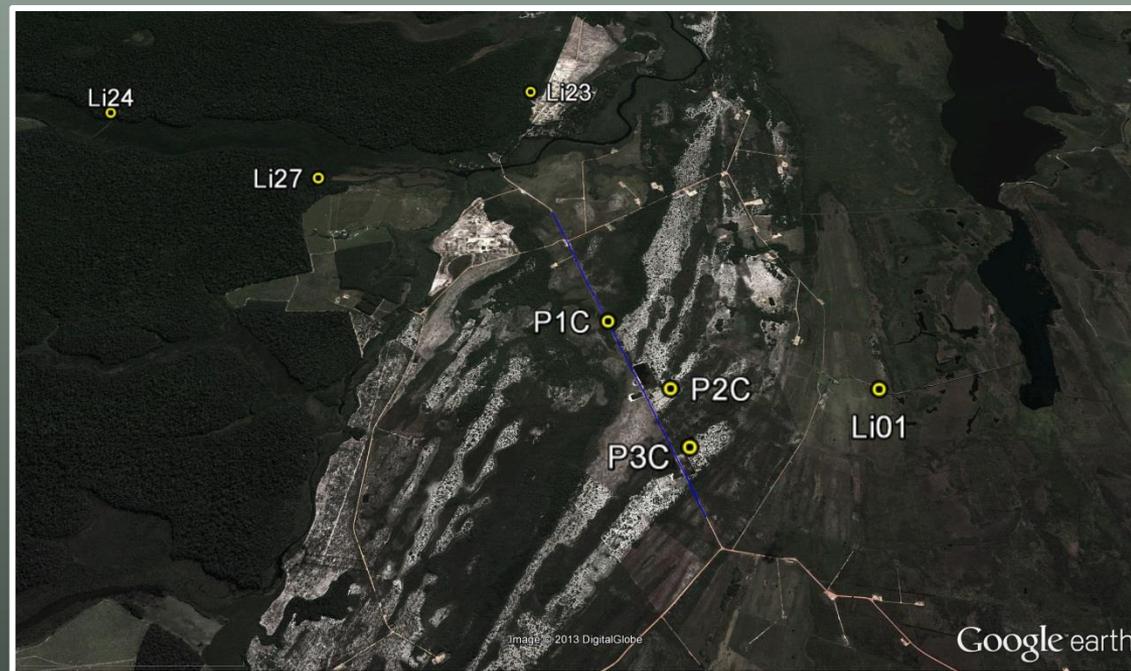
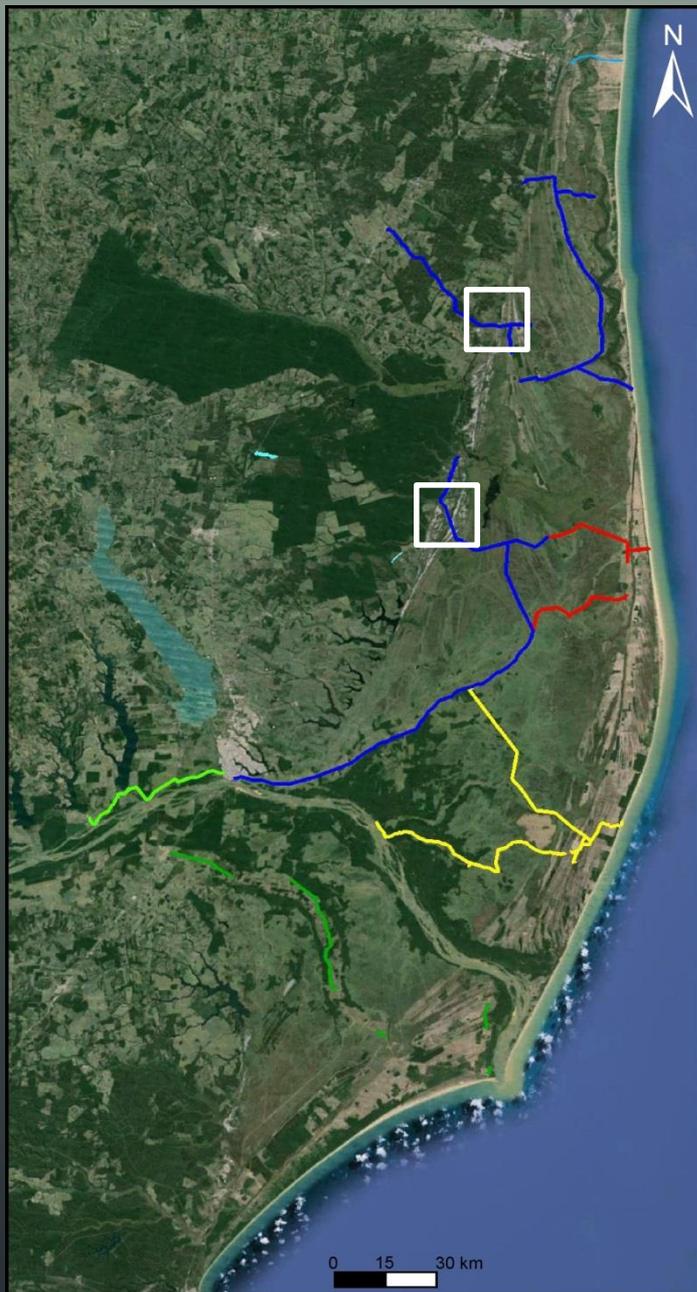
- Planície de cordões

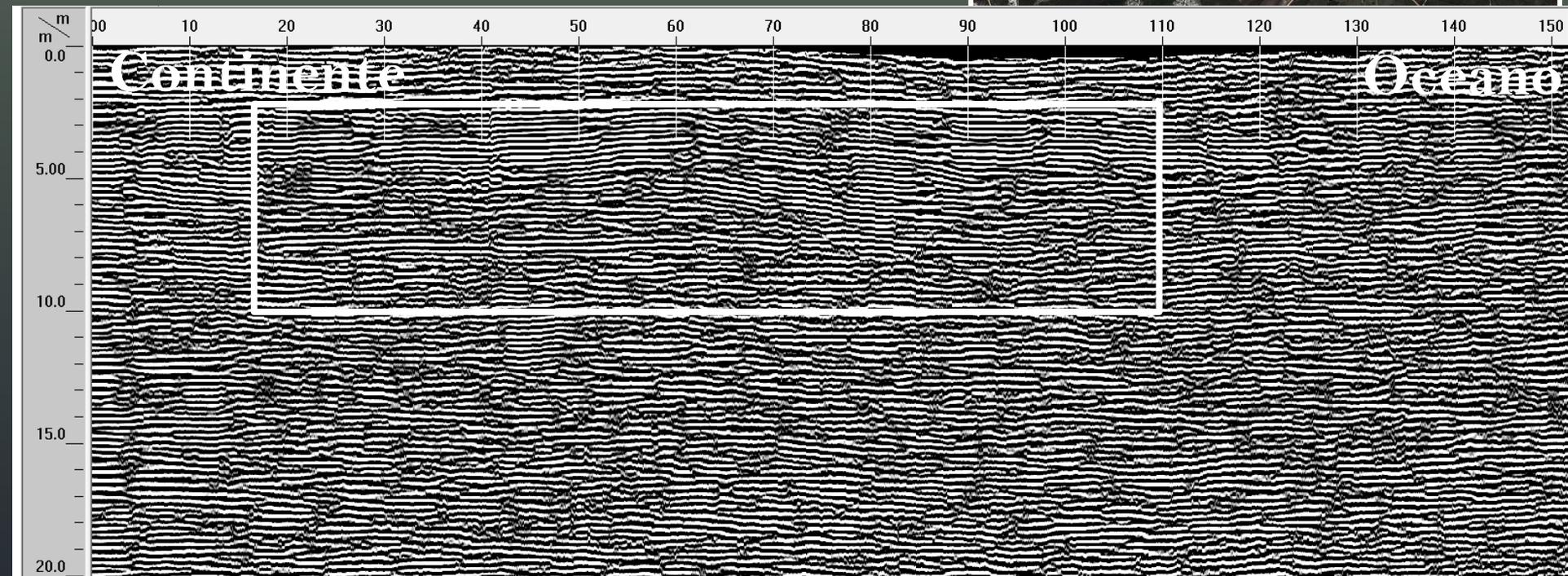
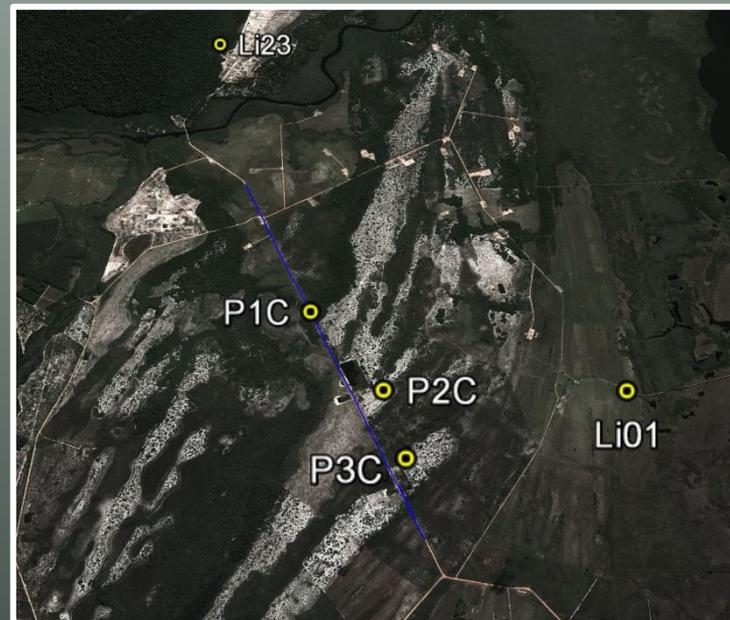
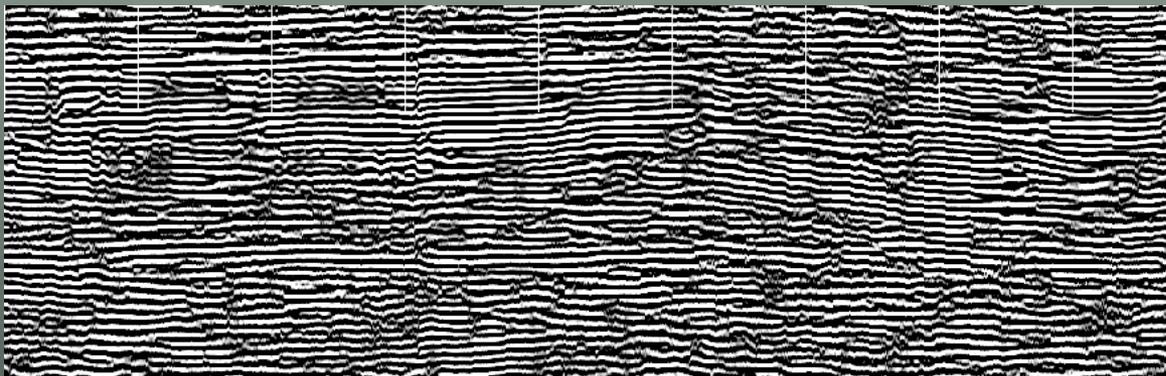
Planície de cordões



Planície de cordões

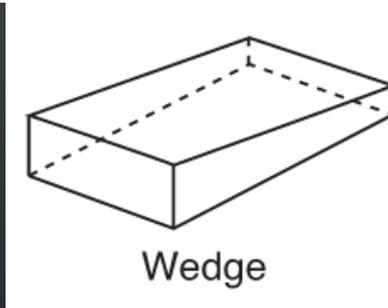
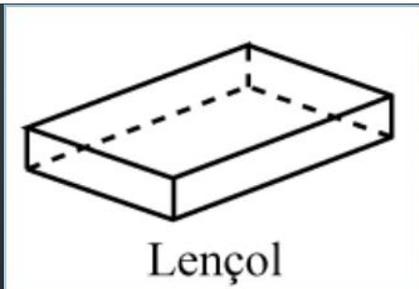
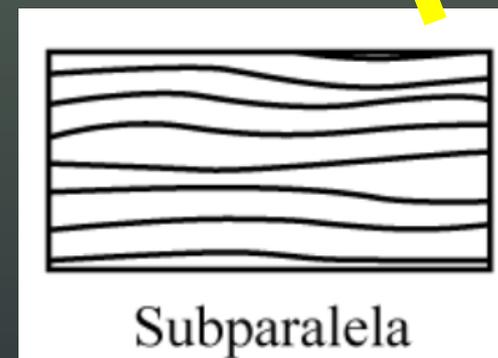
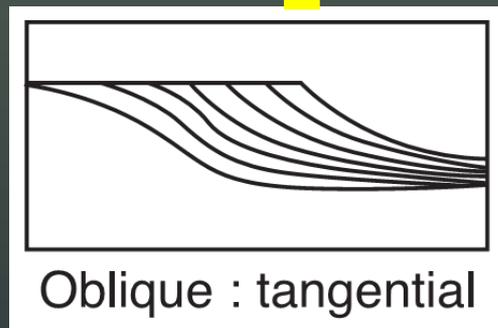
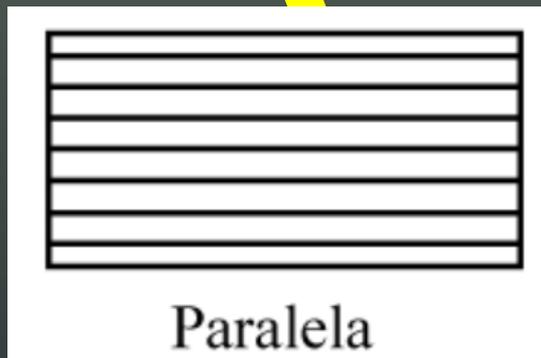
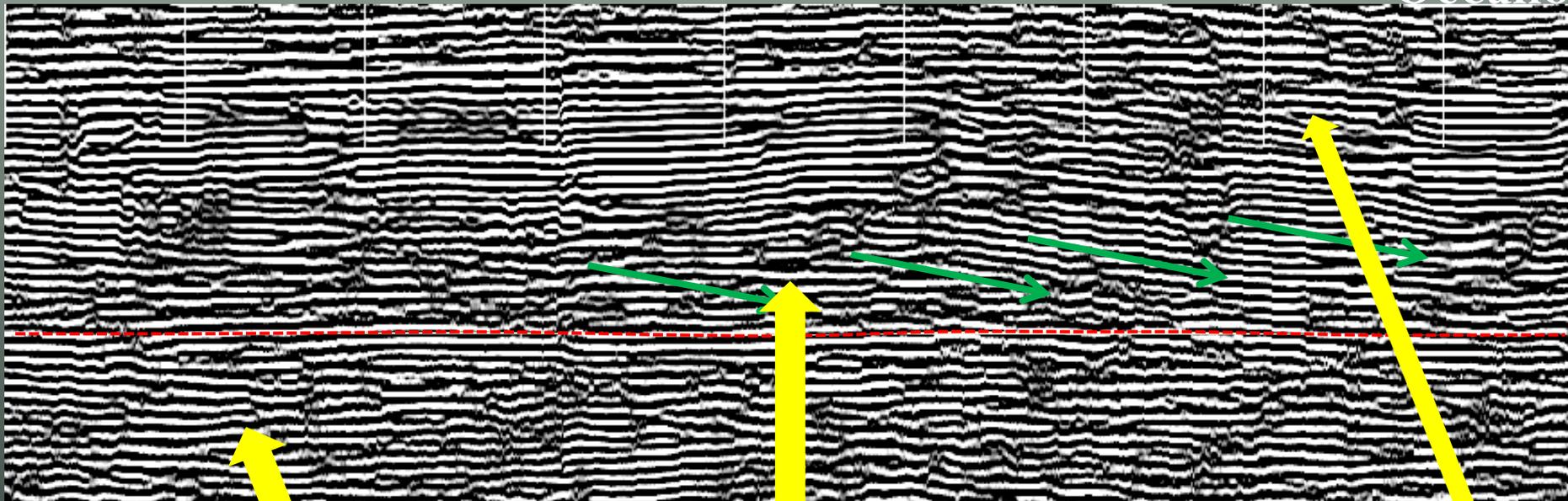






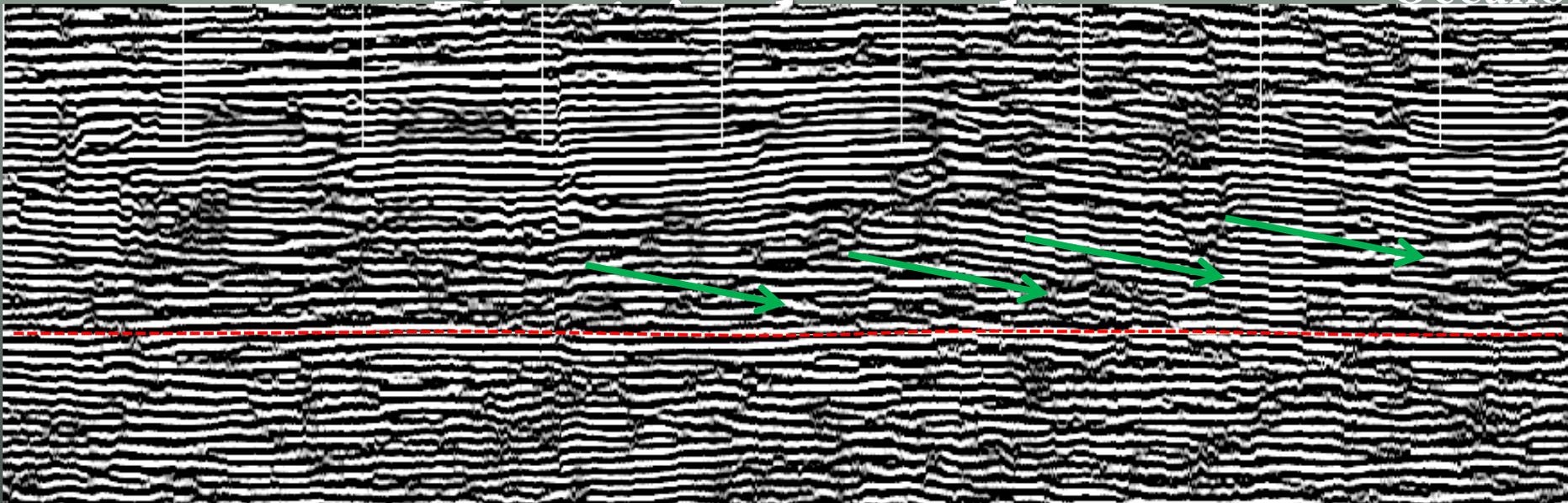
Continente

Oceano

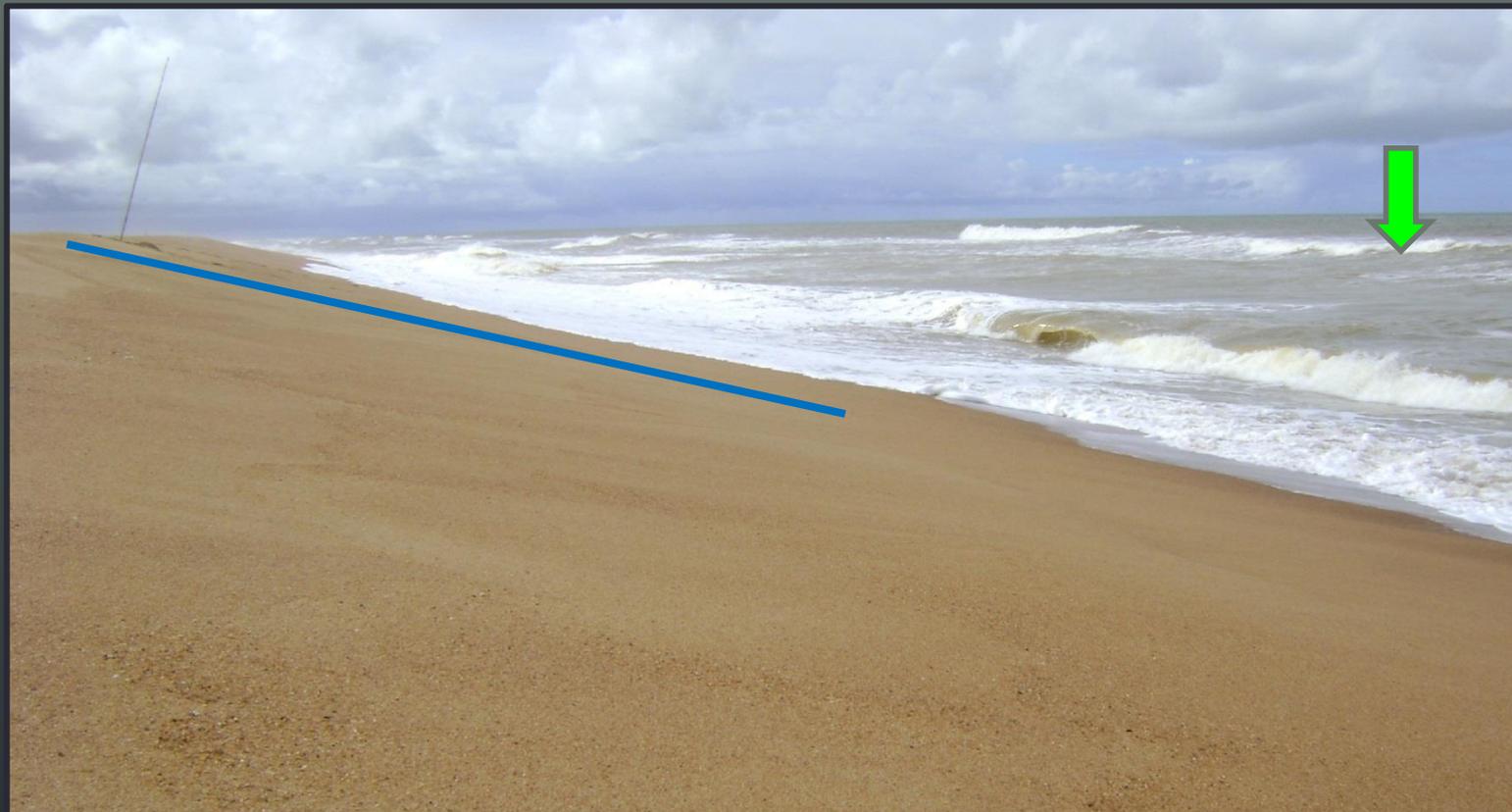
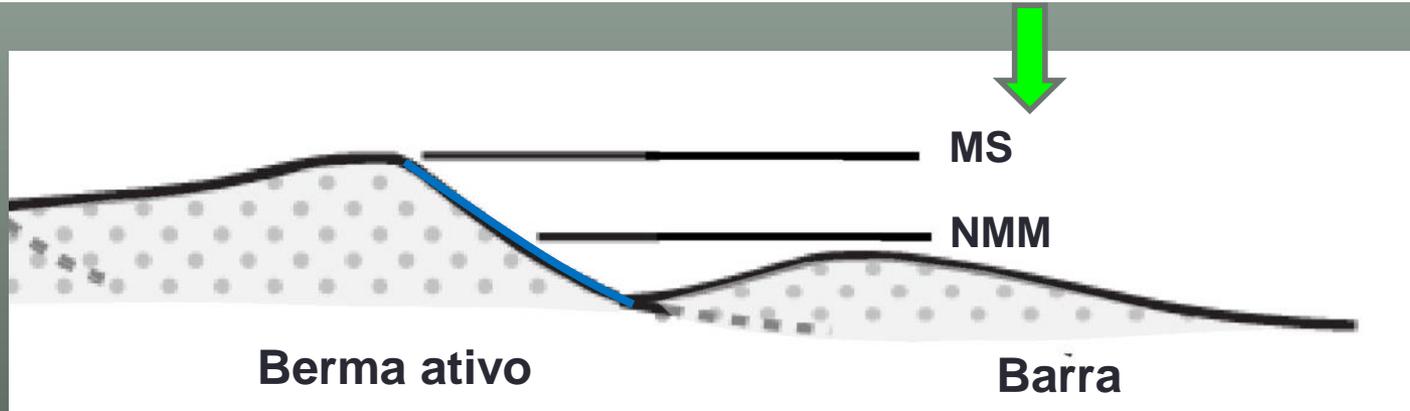


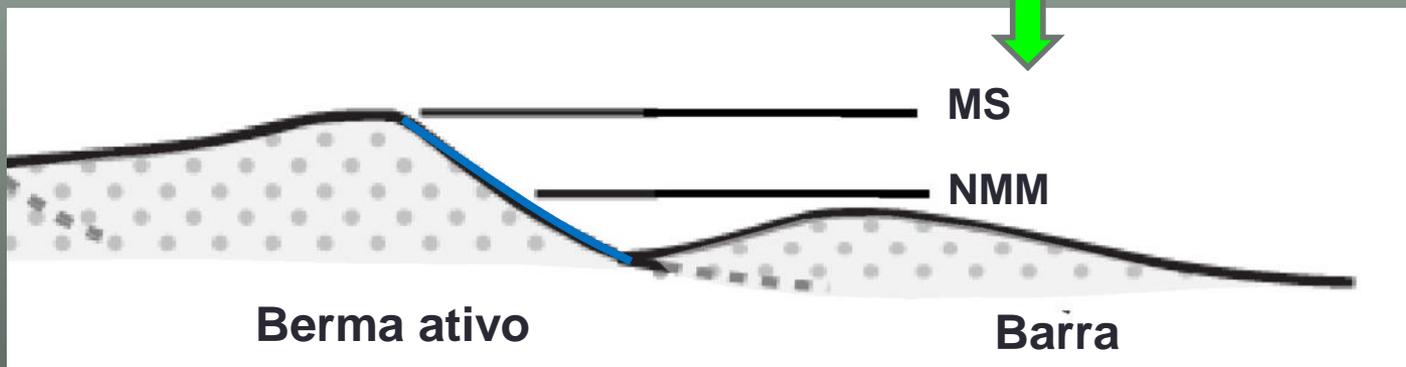
Continente

Oceano

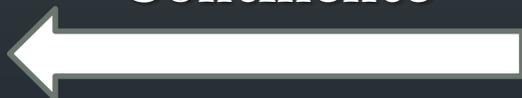


Qual é o significado dos refletores?





Continente



CONTEXTO

SEÇÕES GPR

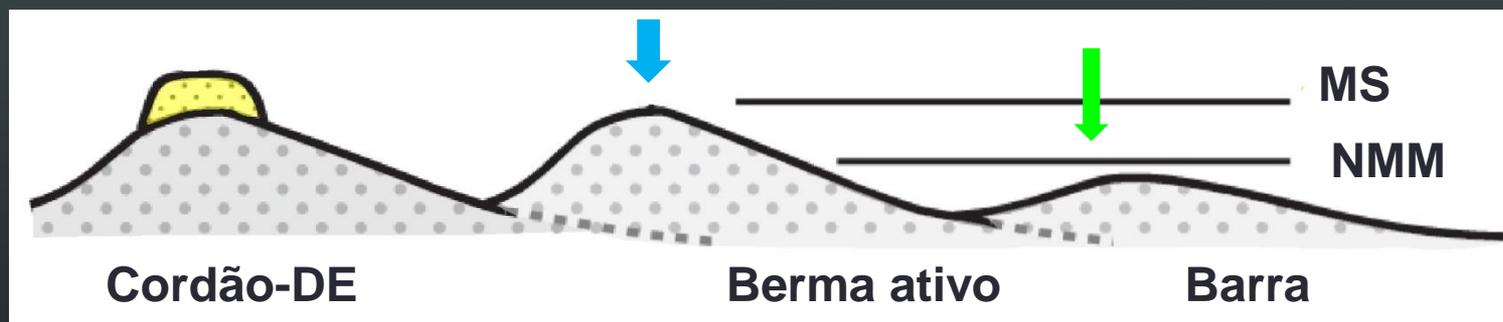
RESULTADOS

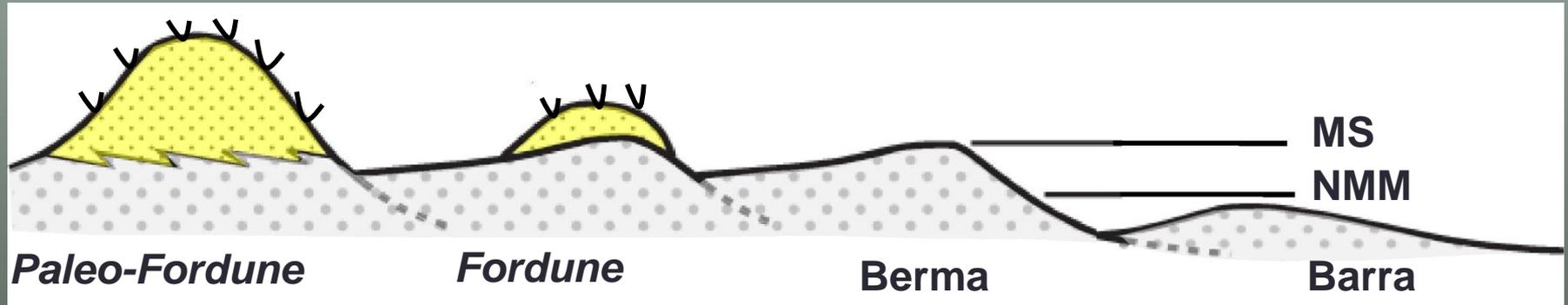
C. FINAIS





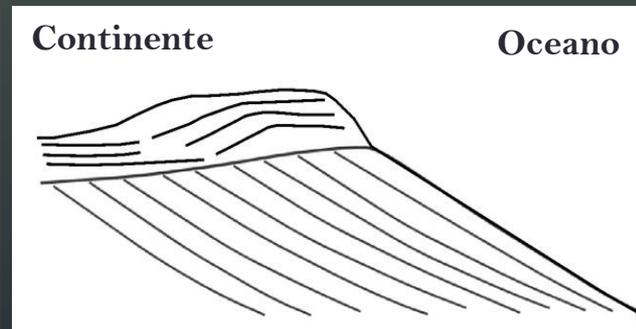
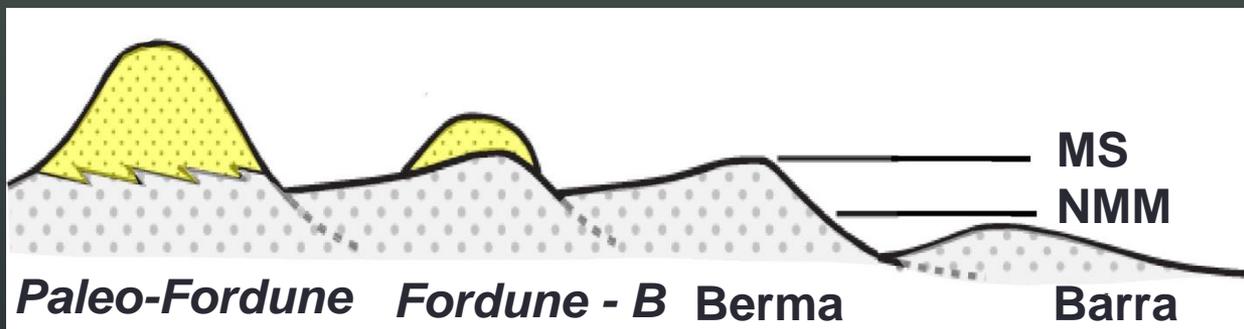
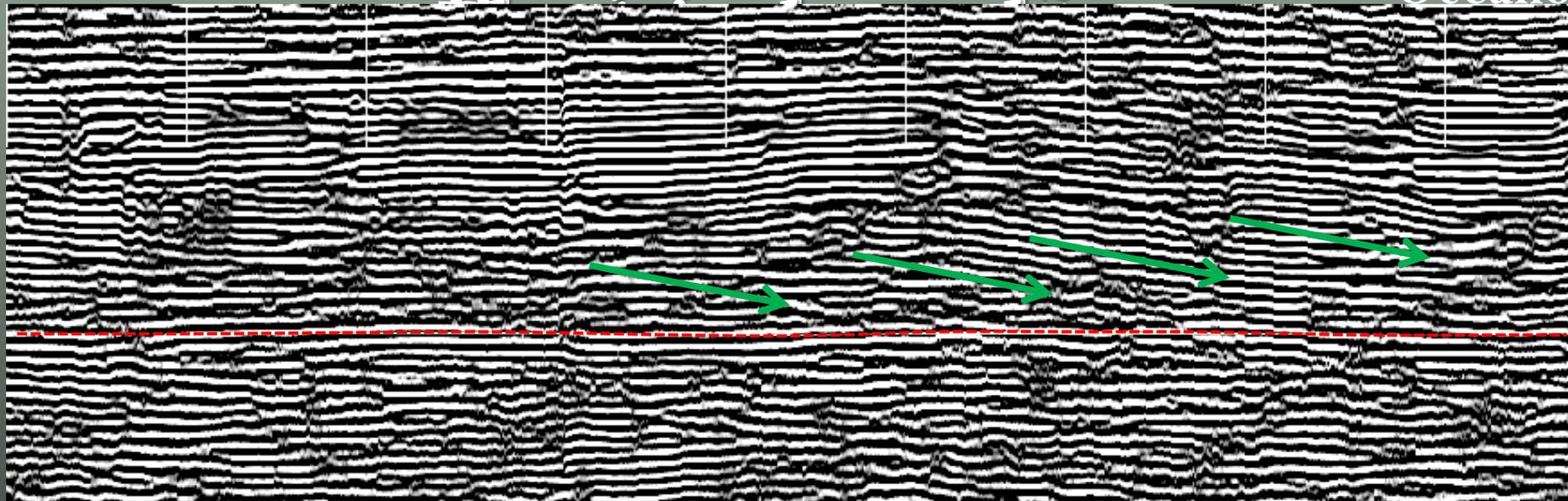
Dunas frontais

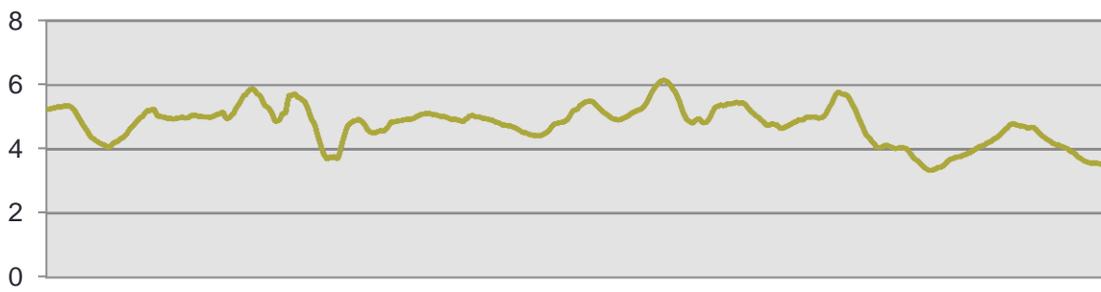
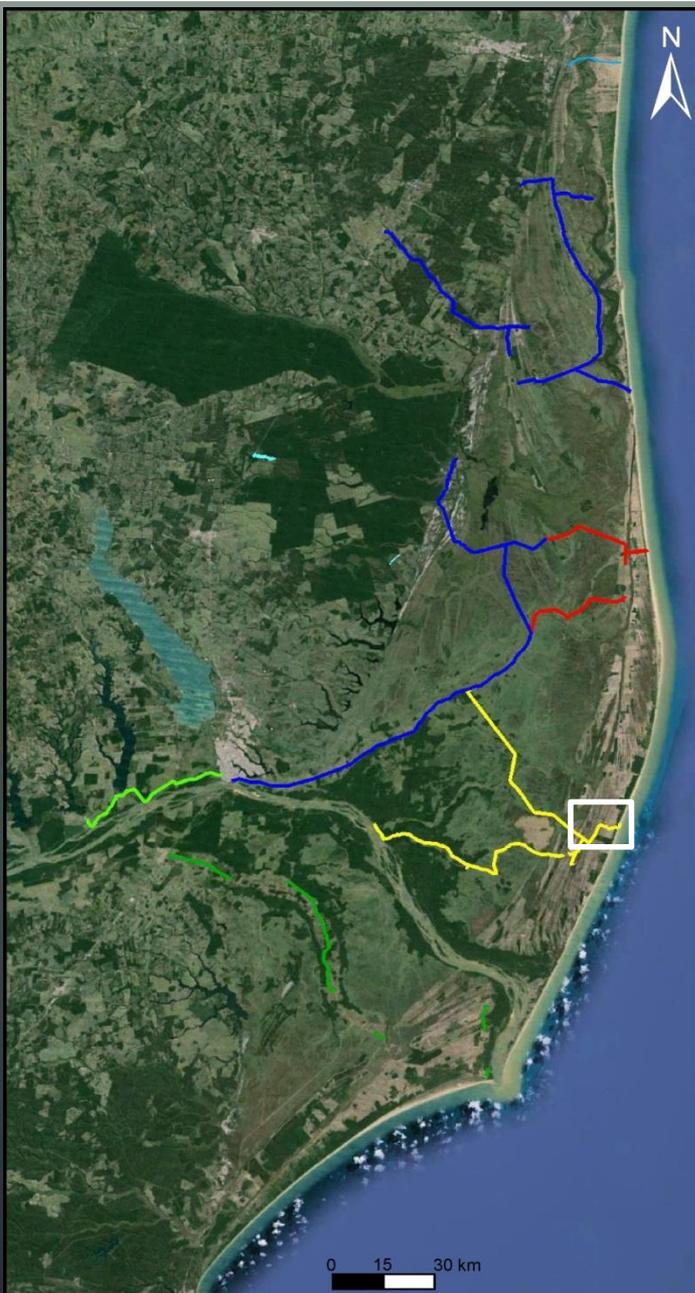




Continente

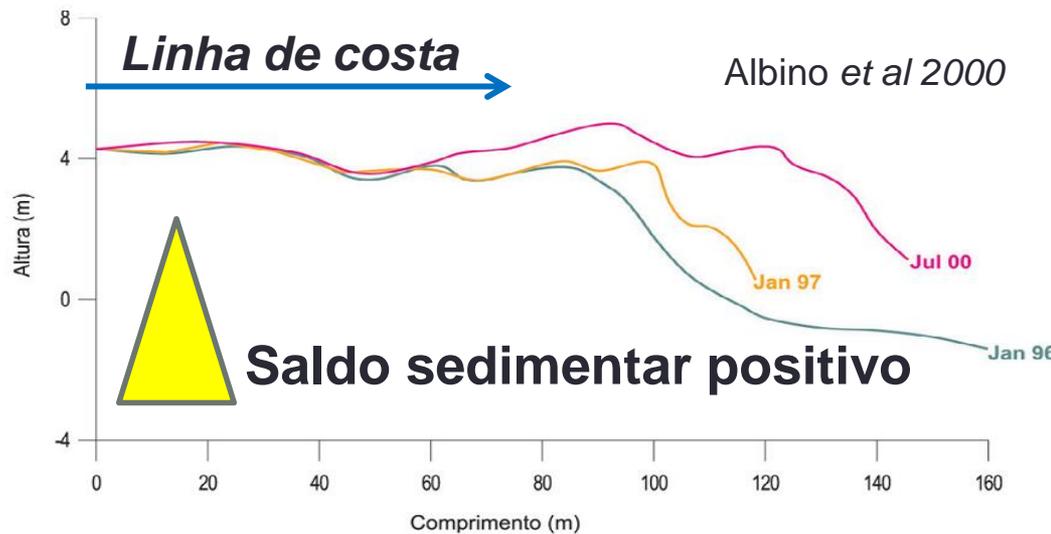
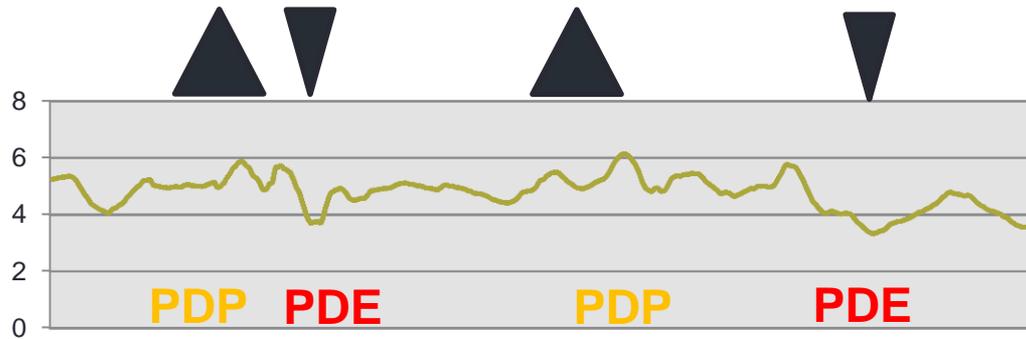
Oceano





Linha de costa

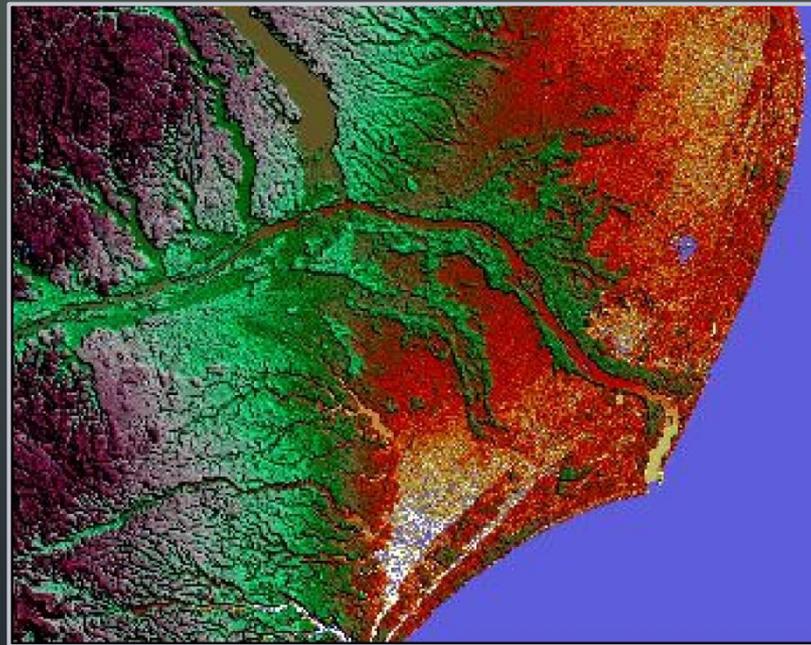
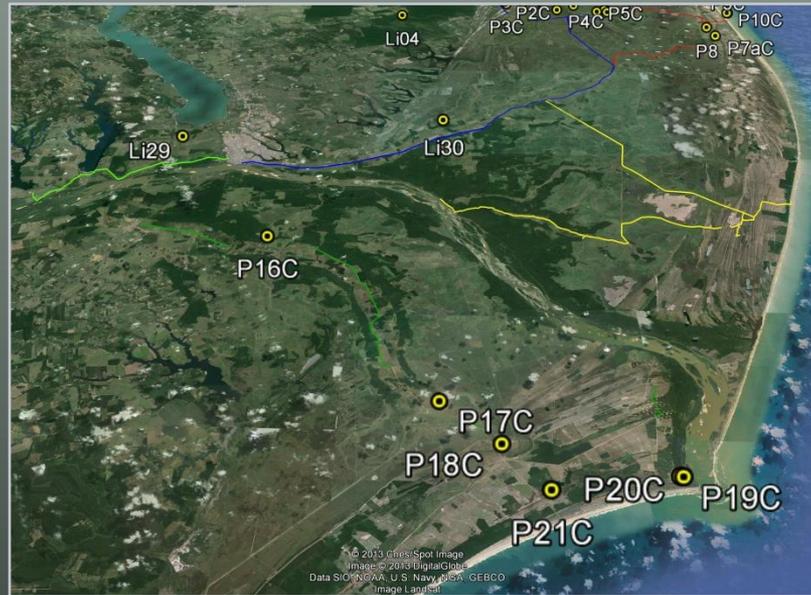




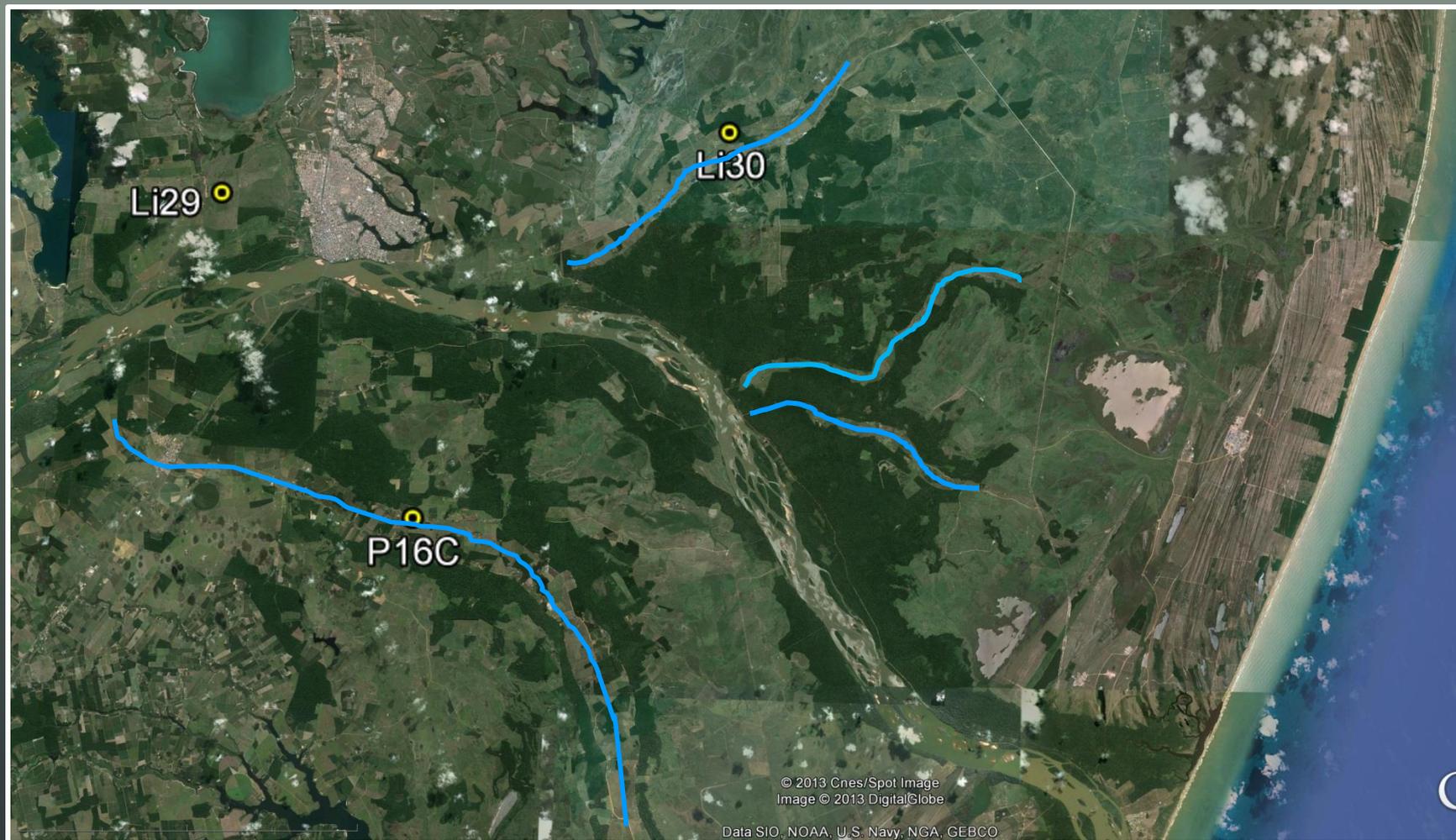
Período Dominado por Progradação - PDP

Período Dominado por Erosão - PDE

Planície Deltaica

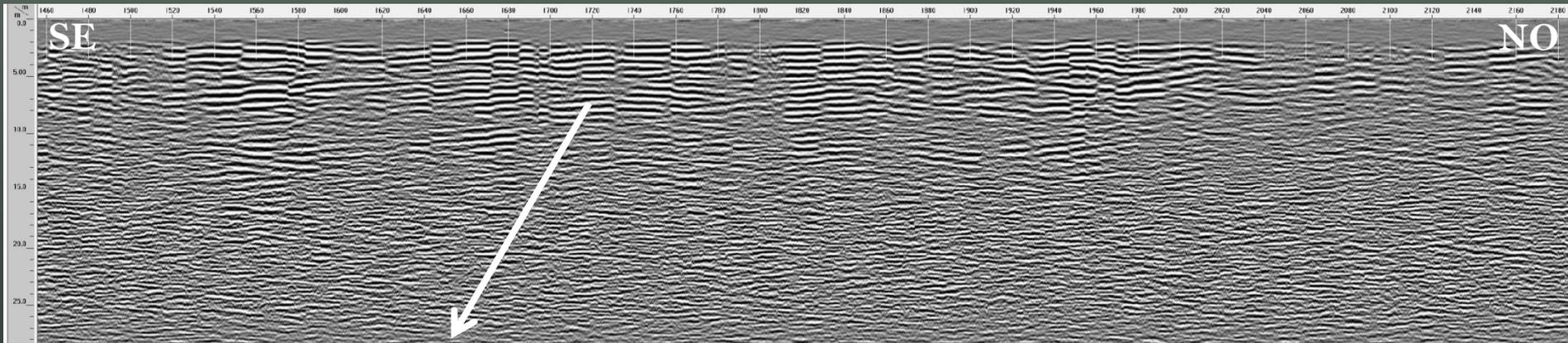
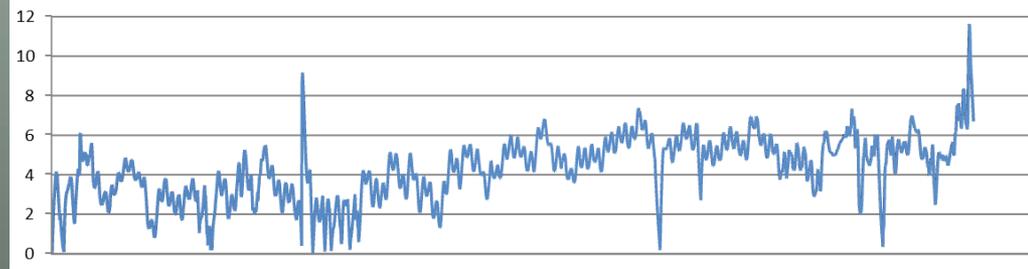


Paleocanias



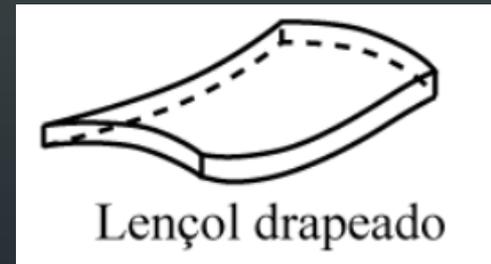
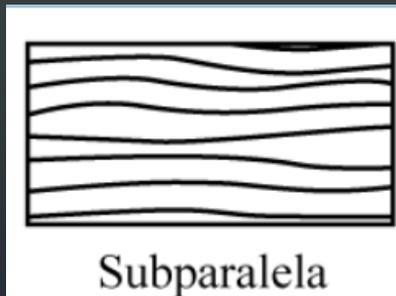


© 2013 Cnes/Spot Image
Image © 2013 DigitalGlobe
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat



Configuração Interna

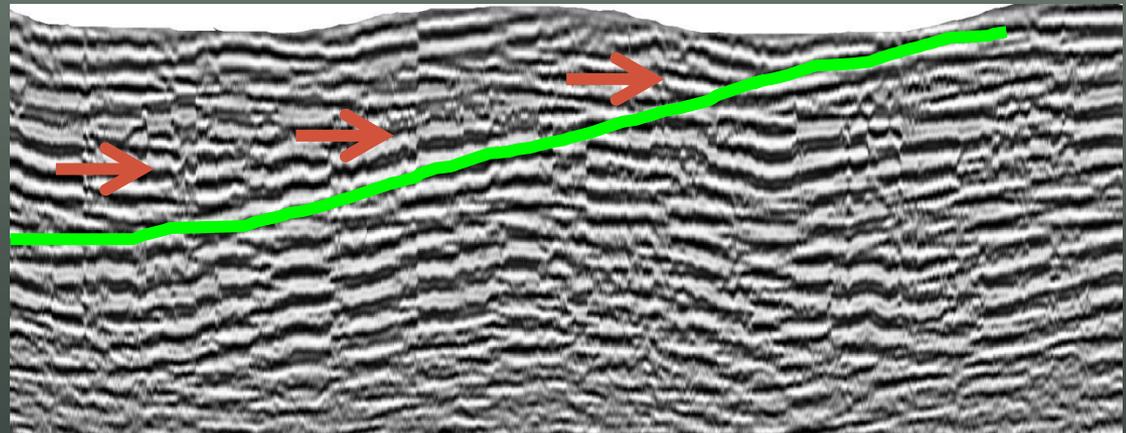
Geometria Externa



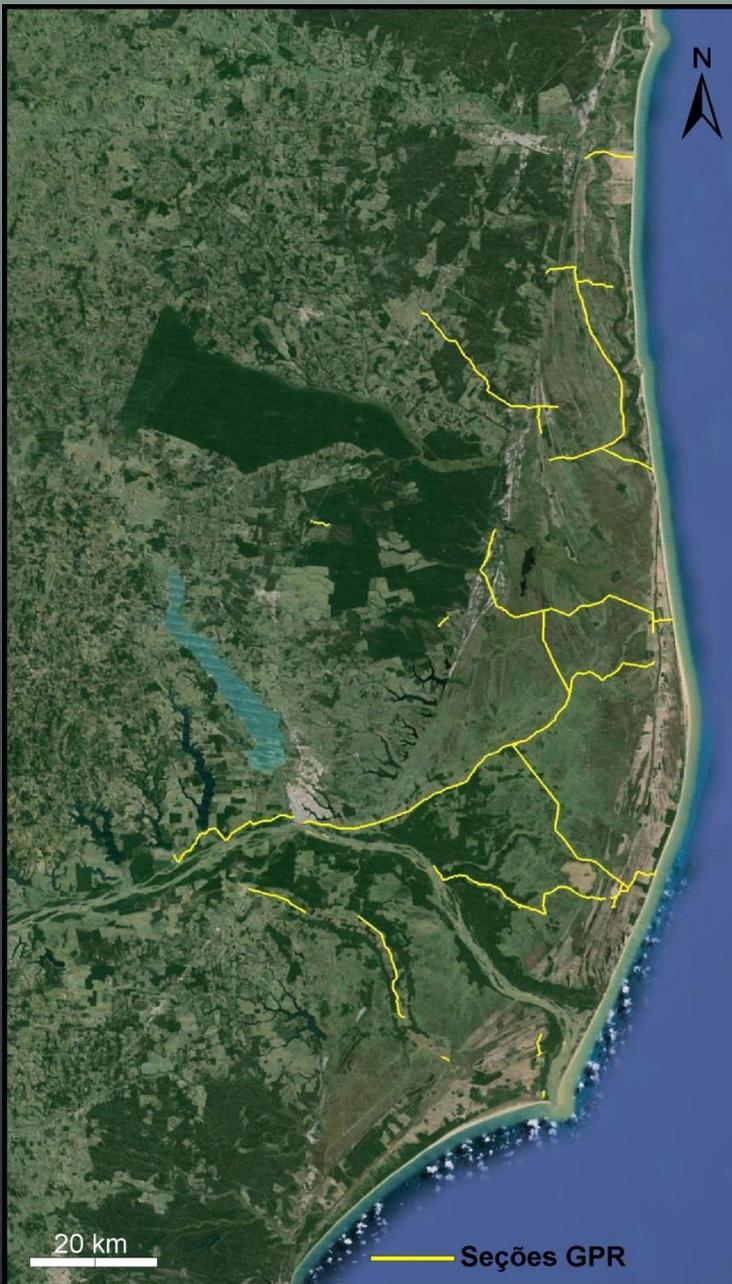


Detalhar

Campos nativos

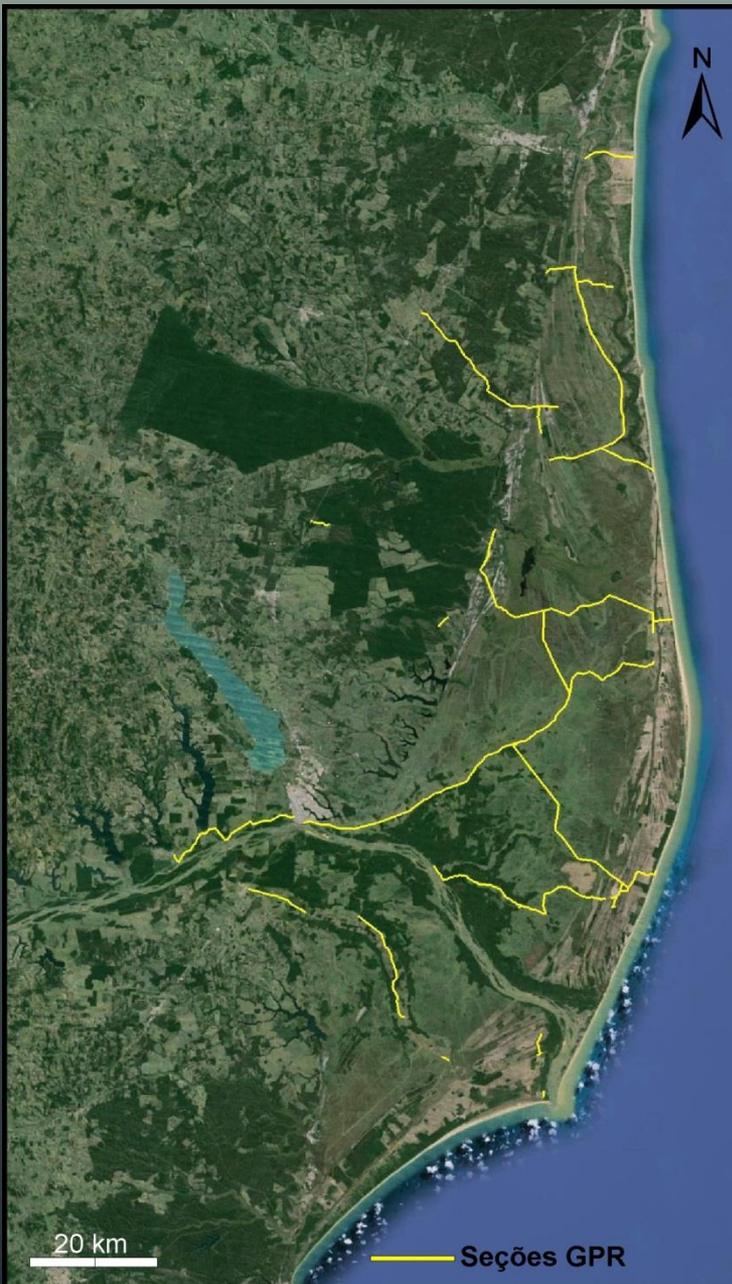


- 1) Significado estratigráfico das terminações onlap
- 2) Diferenciar horizontes de solo
- 3) Adquirir dados em diferentes campos nativos

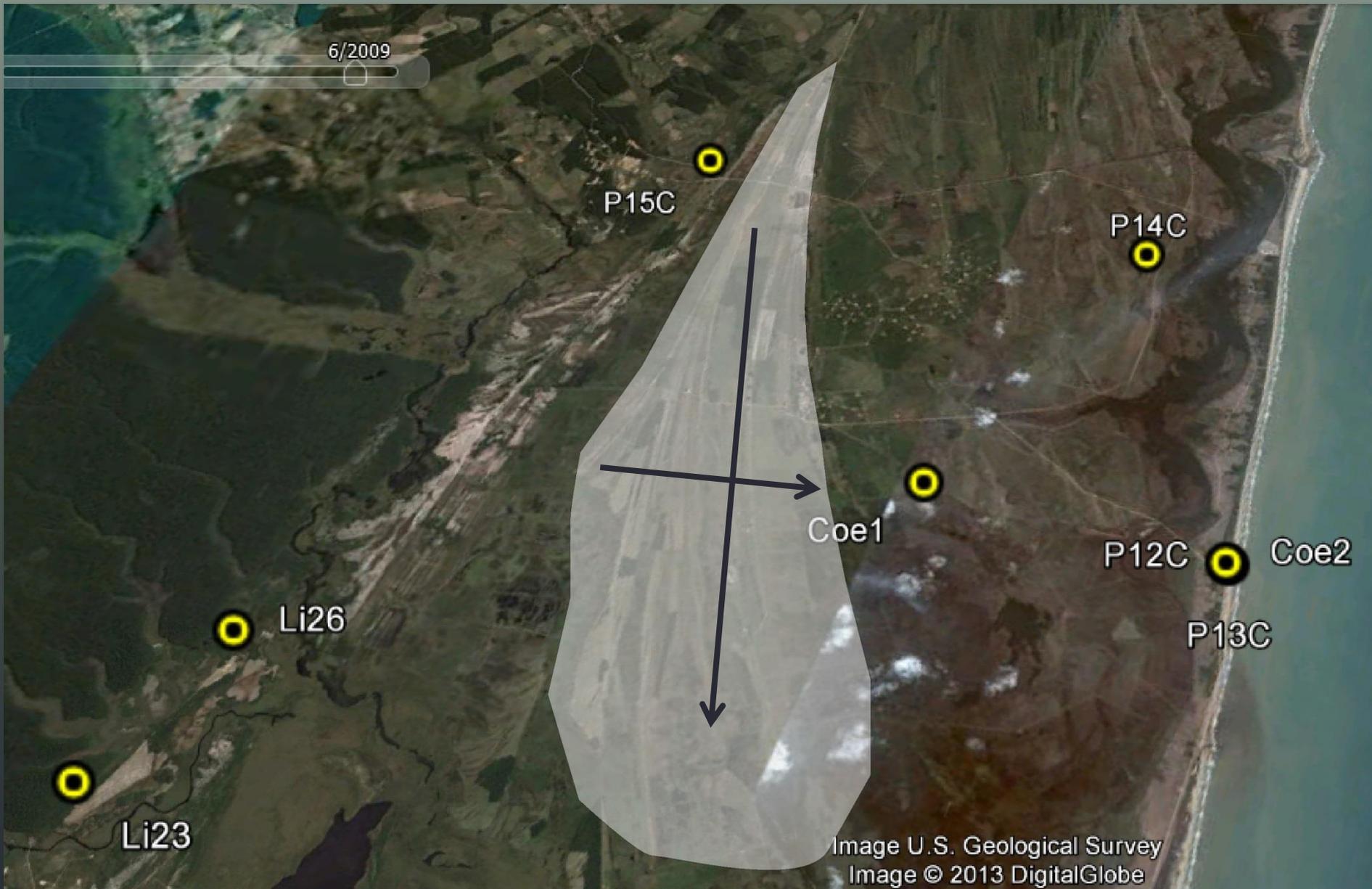


Planície de cordões

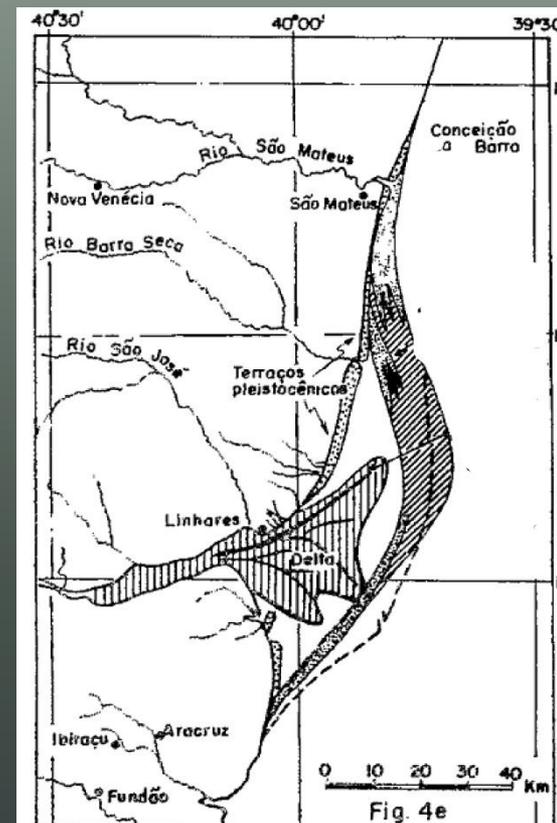
- 1) Limite *Forshore/Shoreface* – Berma/Face Praial– Dunas
- 2) Aquisição com antenas de alta frequência em diferentes feixes de cordões (Antigos *versus* Novos)
- 3) Desenvolvimento do esporão?



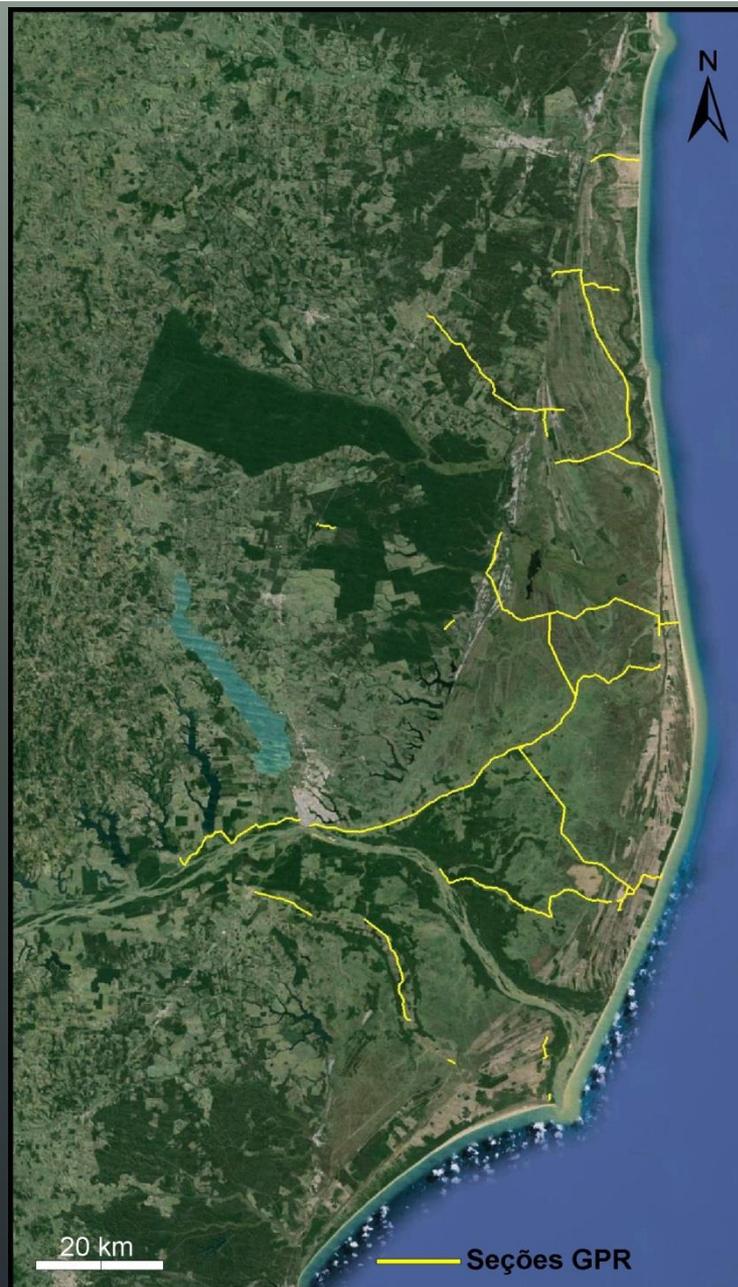
Esporão Arenoso - *Spit* – REFLETORES?



Delta



- 1) Delta Intralagunar (?)
- 2) Espessura e geometria dos depósitos
- 3) Limite delta – laguna (?)



Muito obrigada!