

Métodos de aquisição de dados temporais com o objetivo de caracterizar as correntes de marés no canal da ilha do medo São Luís - MA.

Rômulo de Araujo Soares

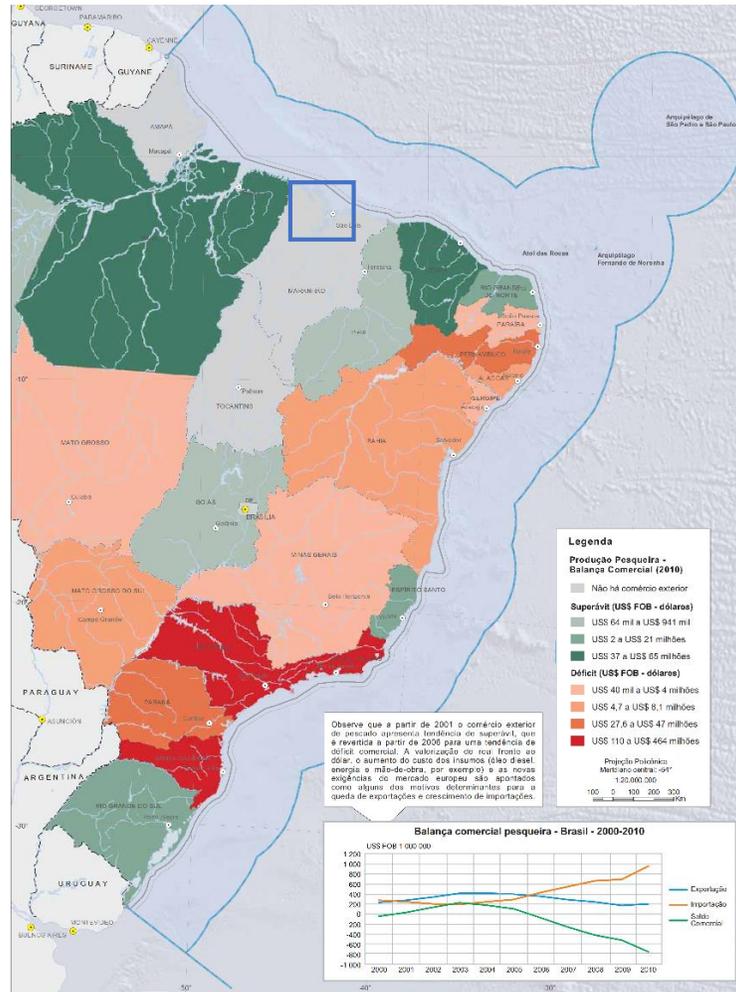


Tópicos abordados

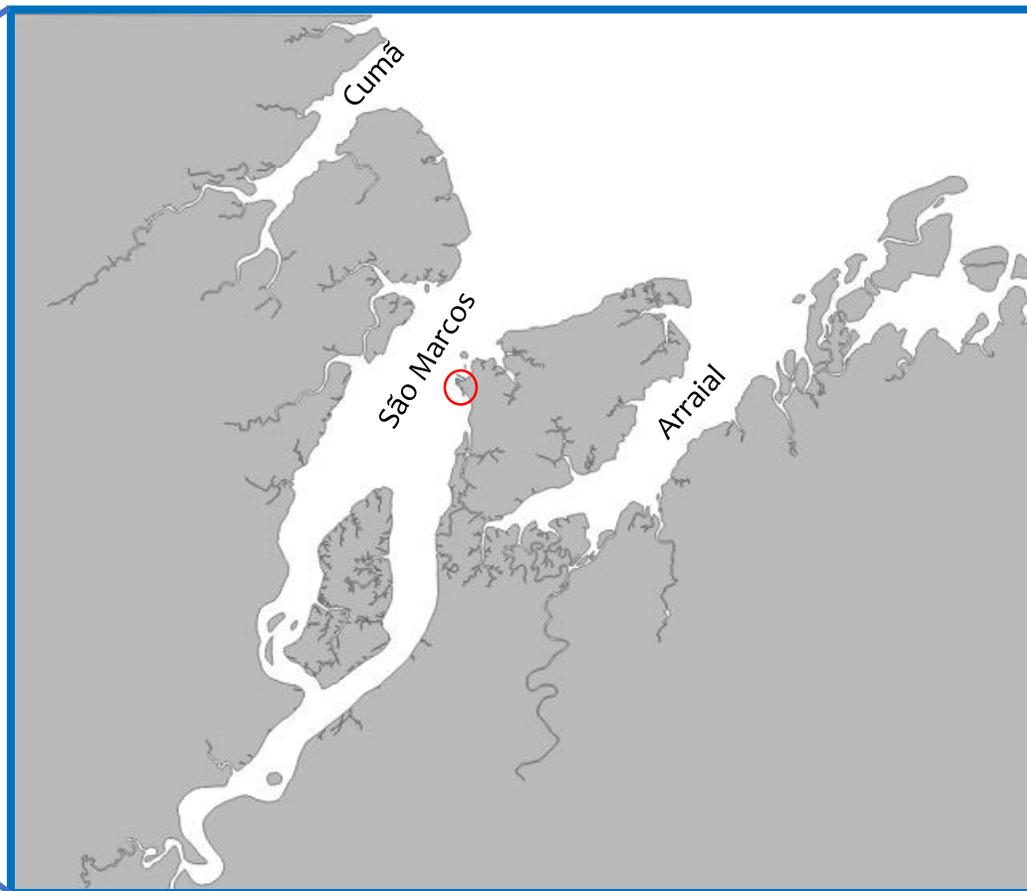
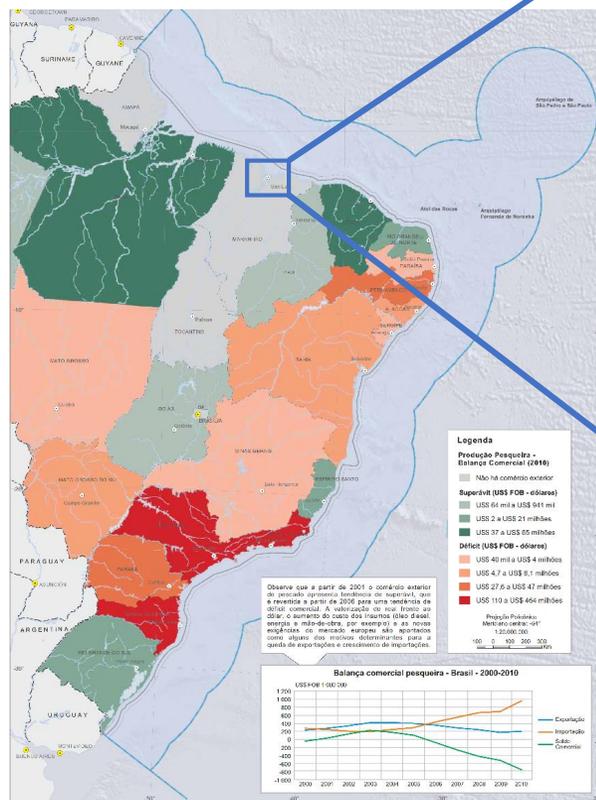
- Identificação da área
- Características oceanográficas
- Processos de construção da grade
- Aquisição dos dados
- Resultados parciais



Área de estudo



Área de estudo



3000km²

PM 10m

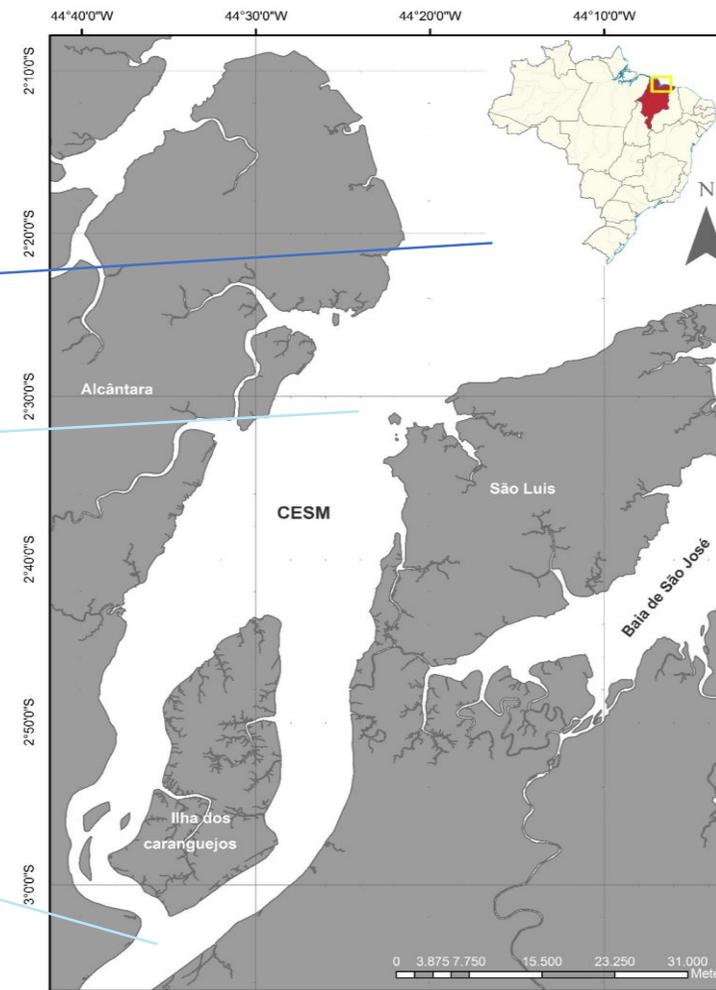


CESM

Oceano Adjacente

Diluição Mensurável
de água

Escoamento fluvial

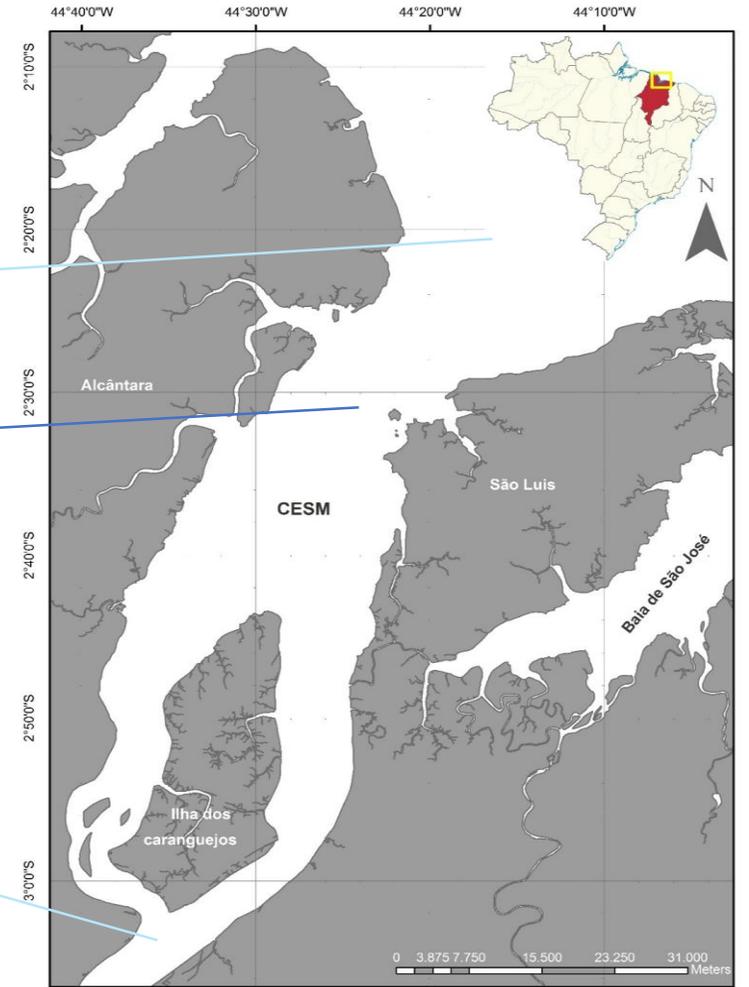


CESM

Oceano Adjacente

Diluição mensurável
de água

Escoamento fluvial

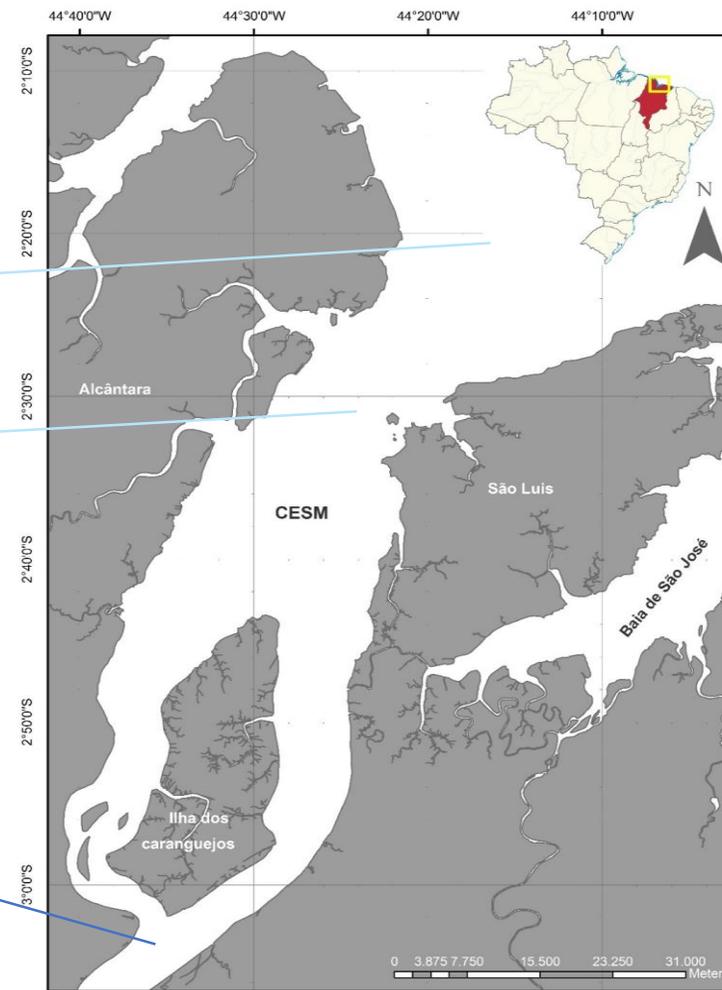


CESM

Oceano Adjacente

Mistura Mensurável
de água

Escoamento fluvial

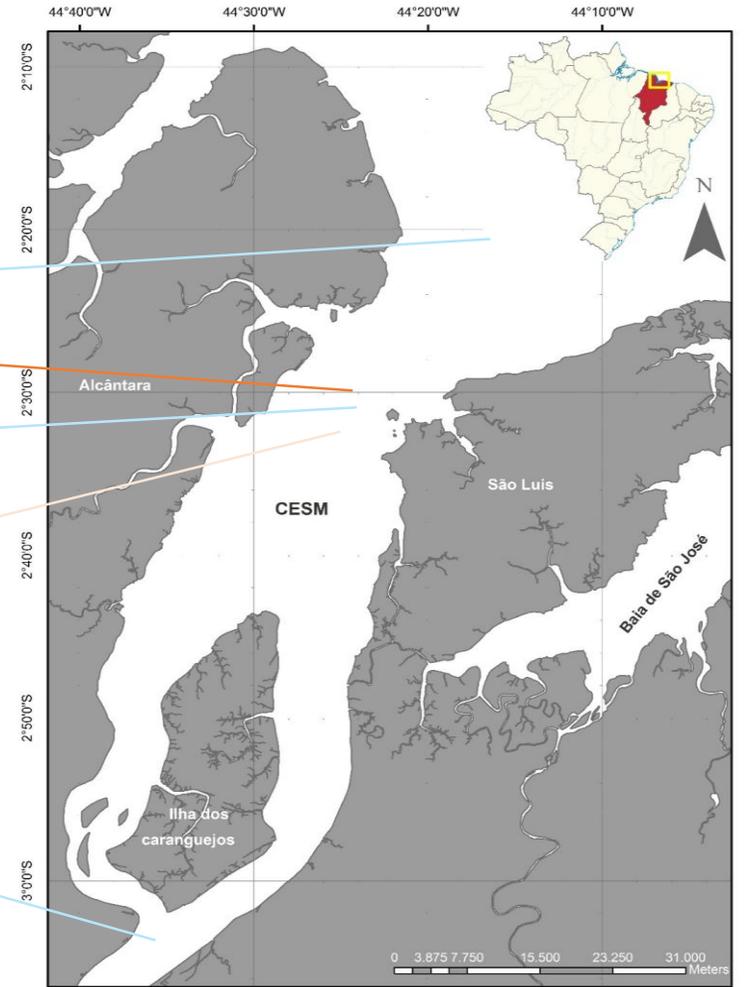
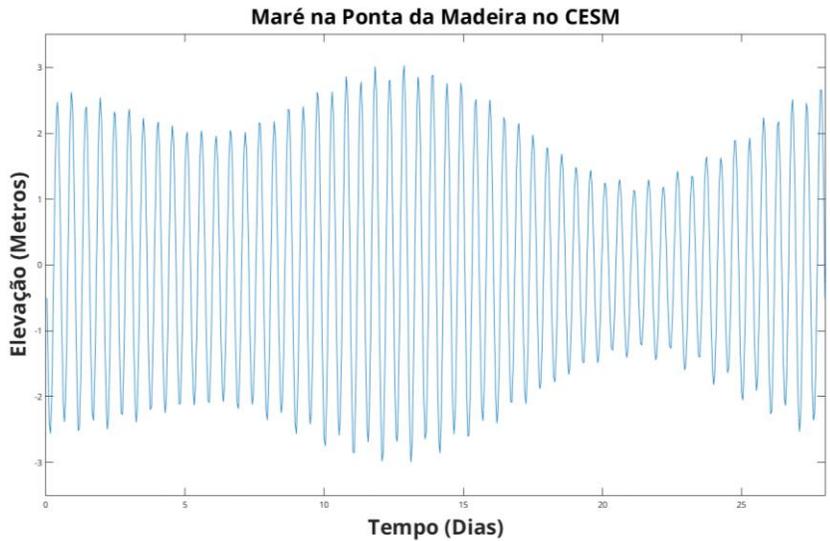


CESM

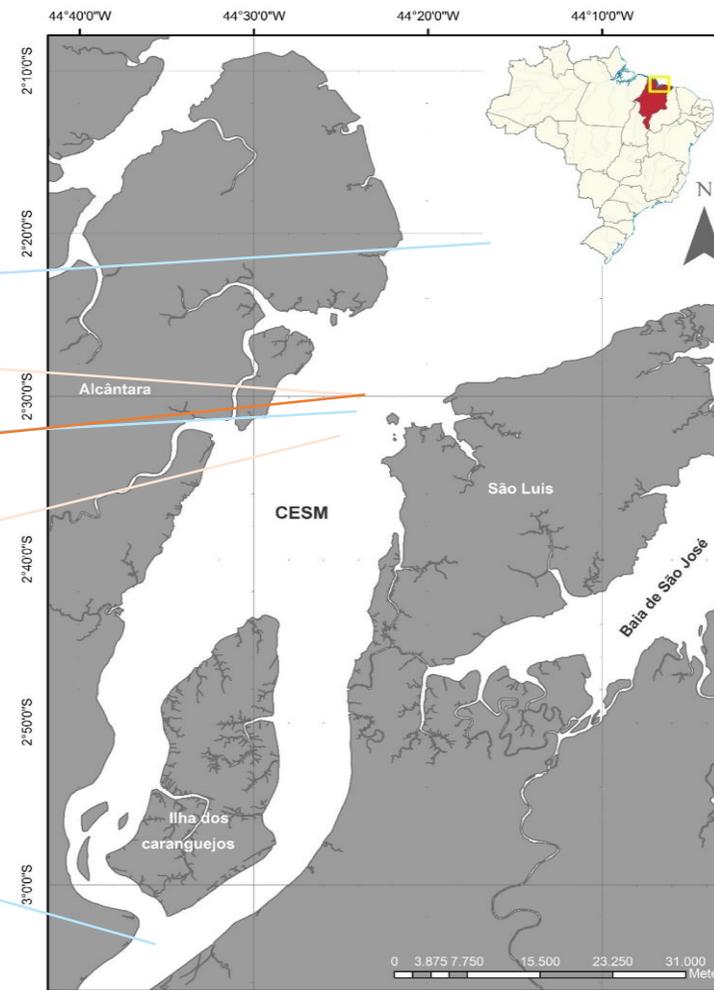
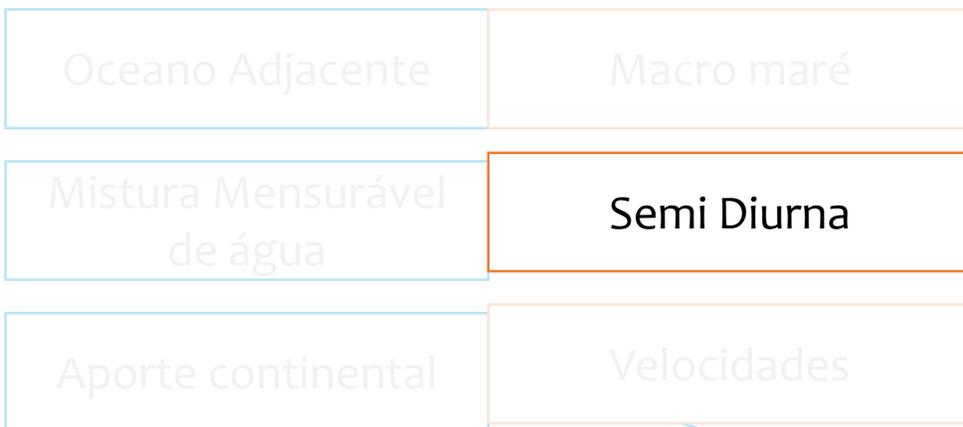


Mistura Mer
de água

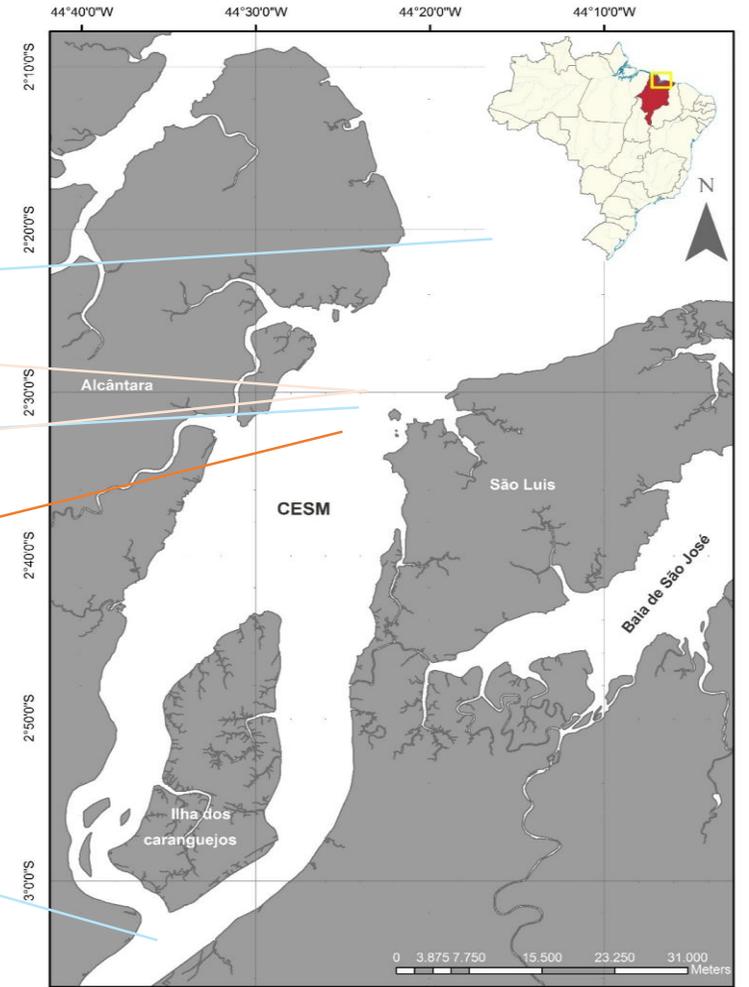
Aporte cont



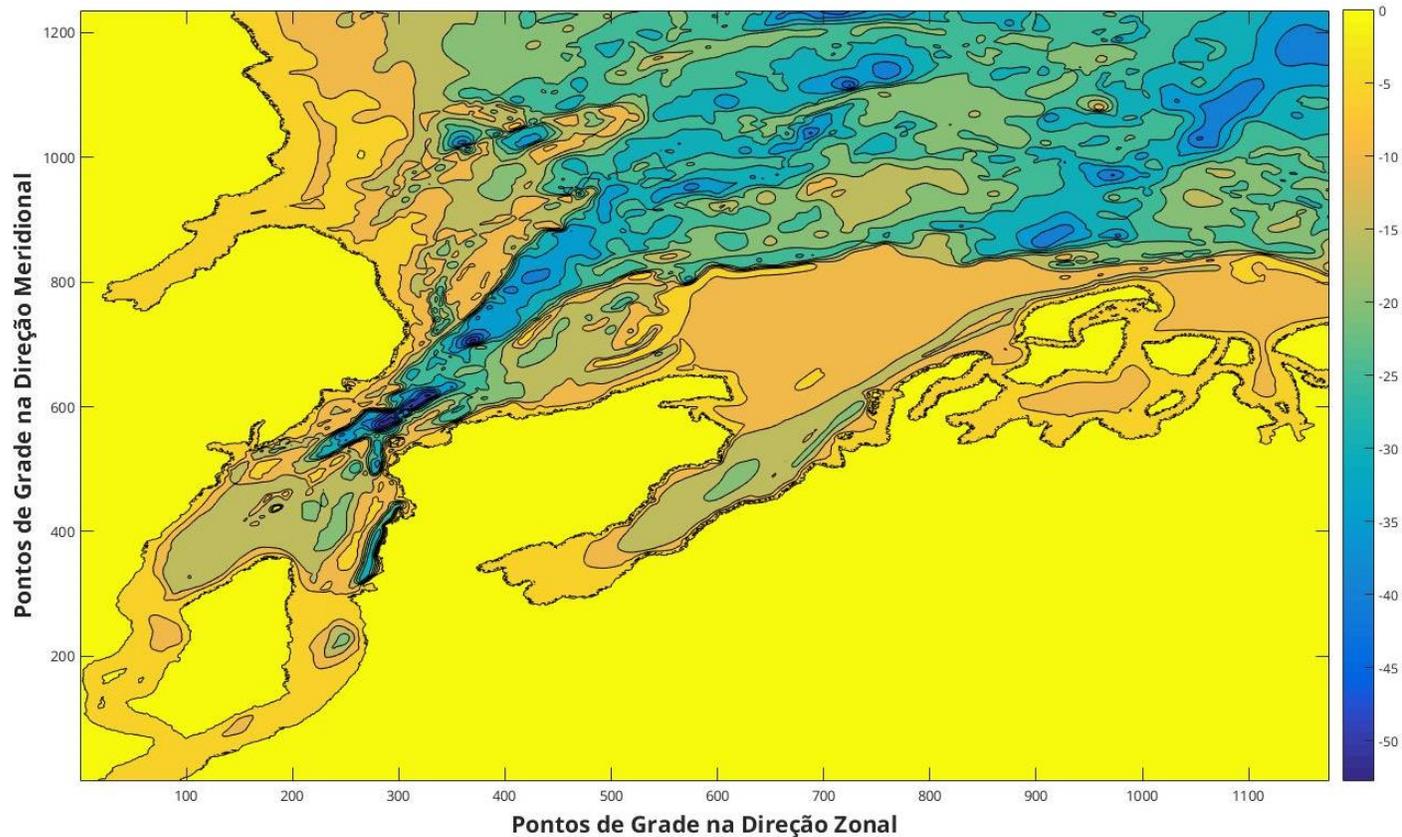
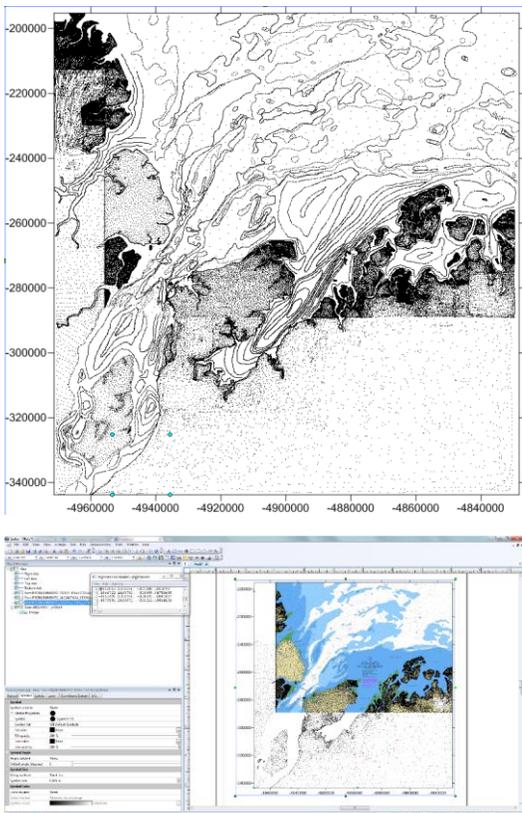
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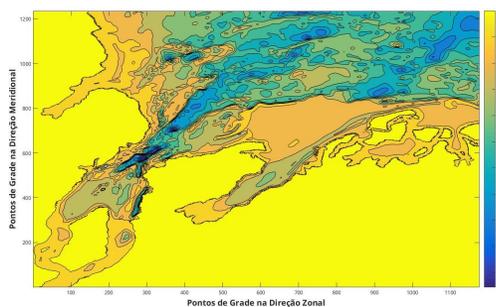
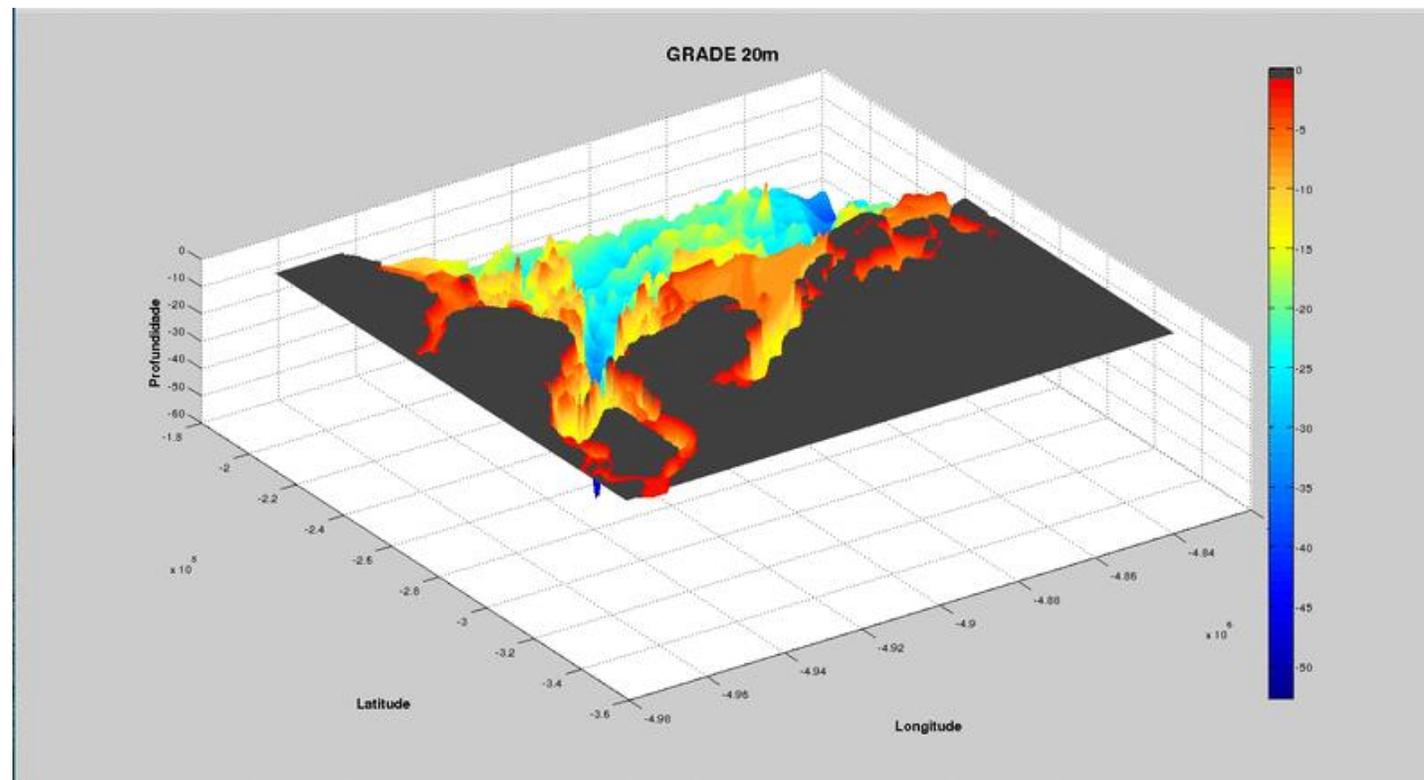
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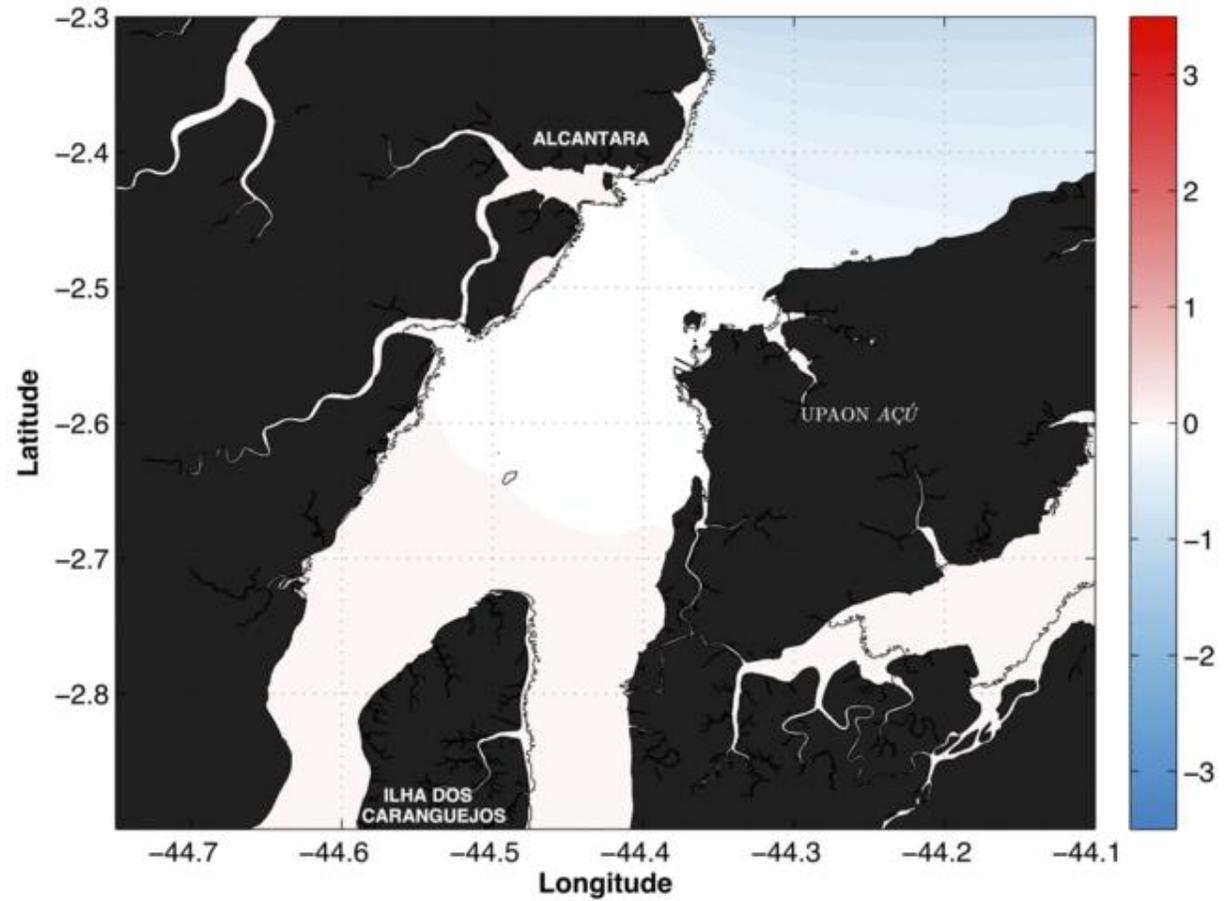
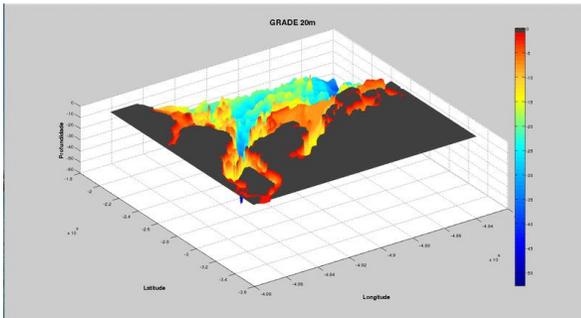
CESM - MDT



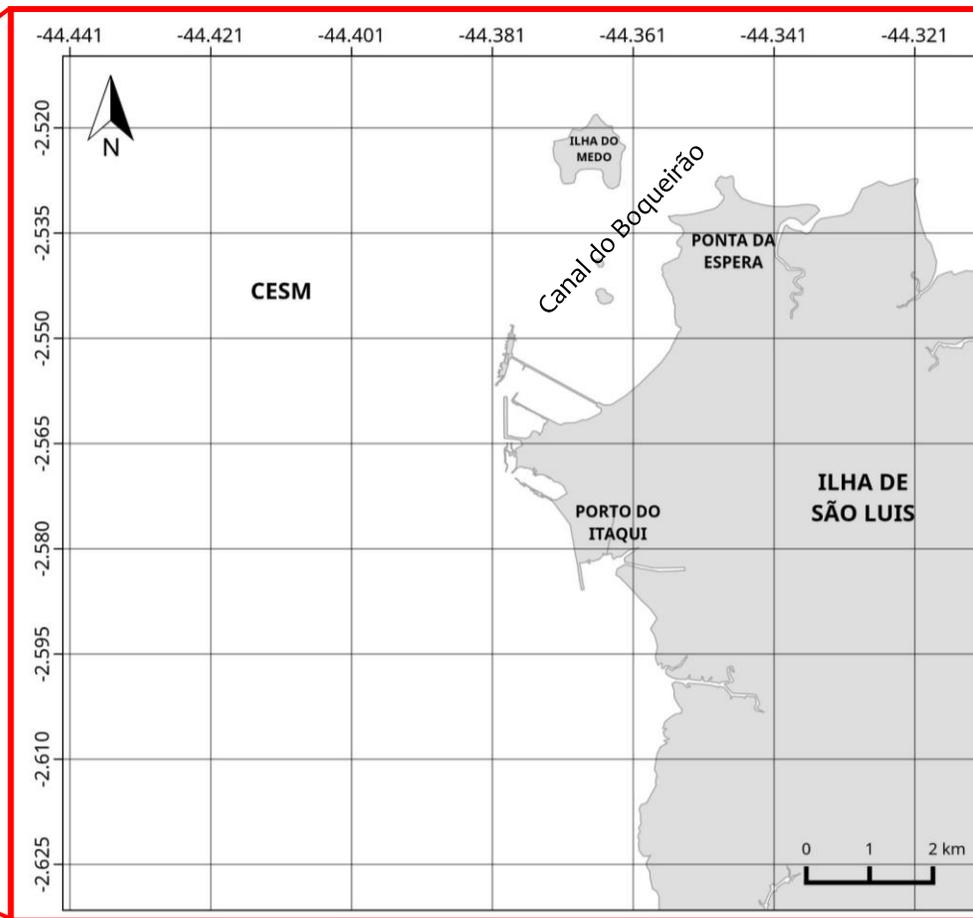
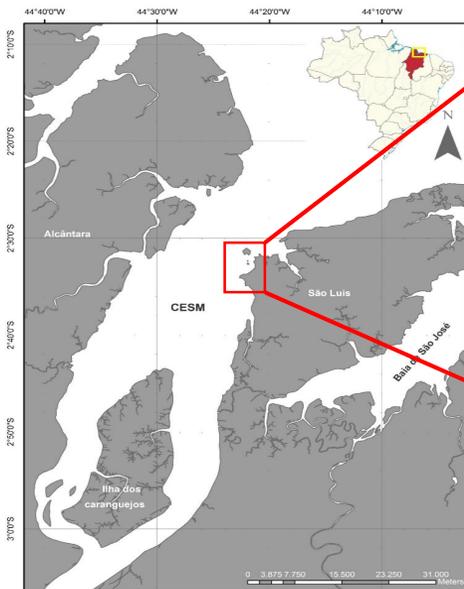
CESM - MDT

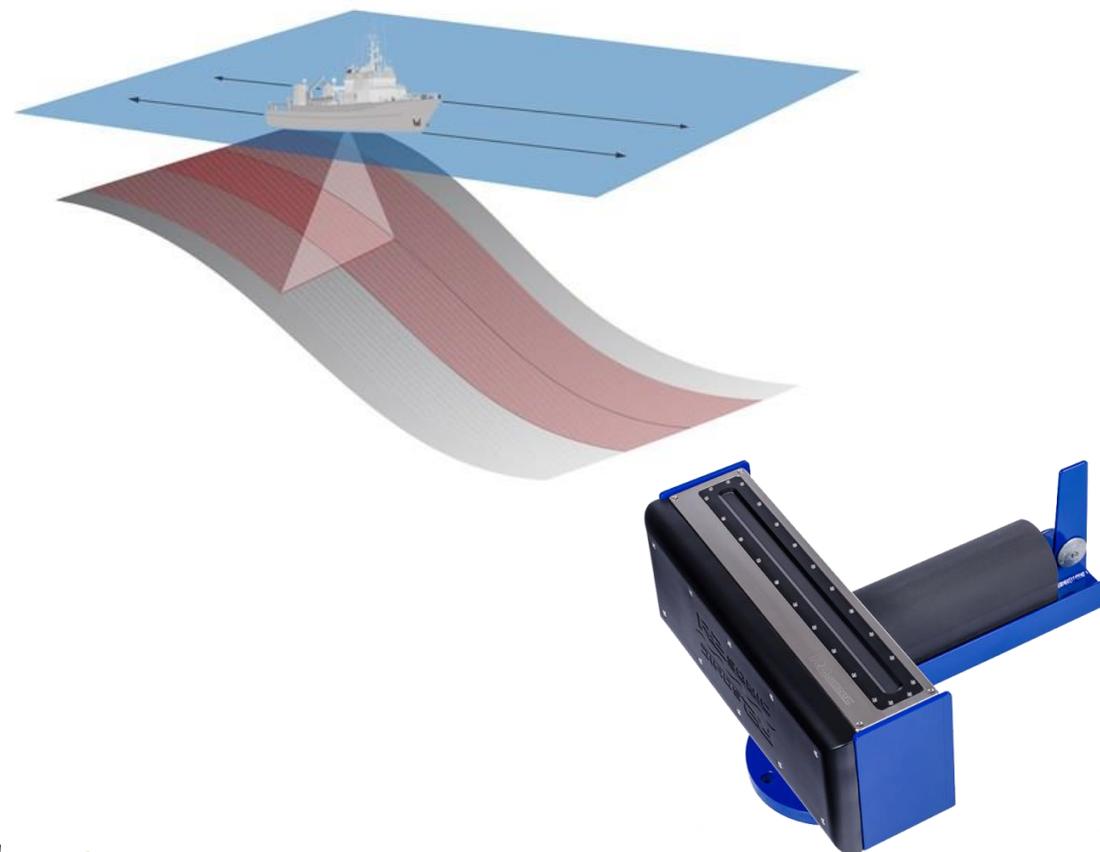


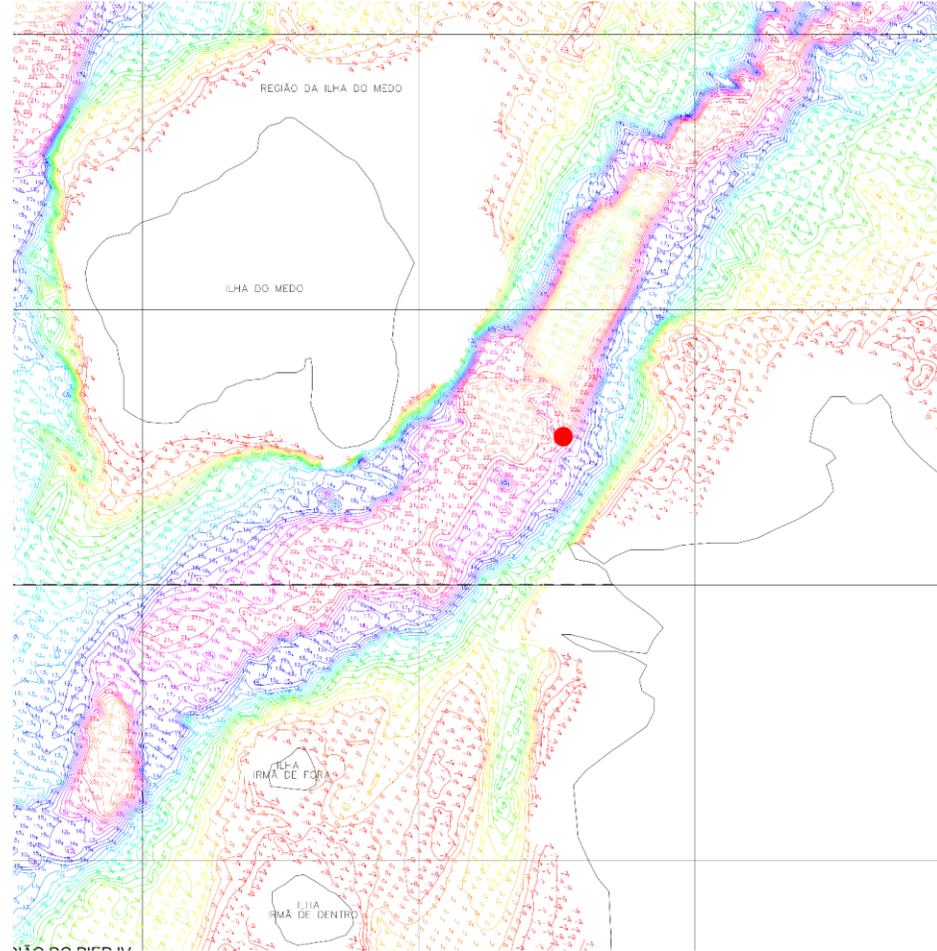
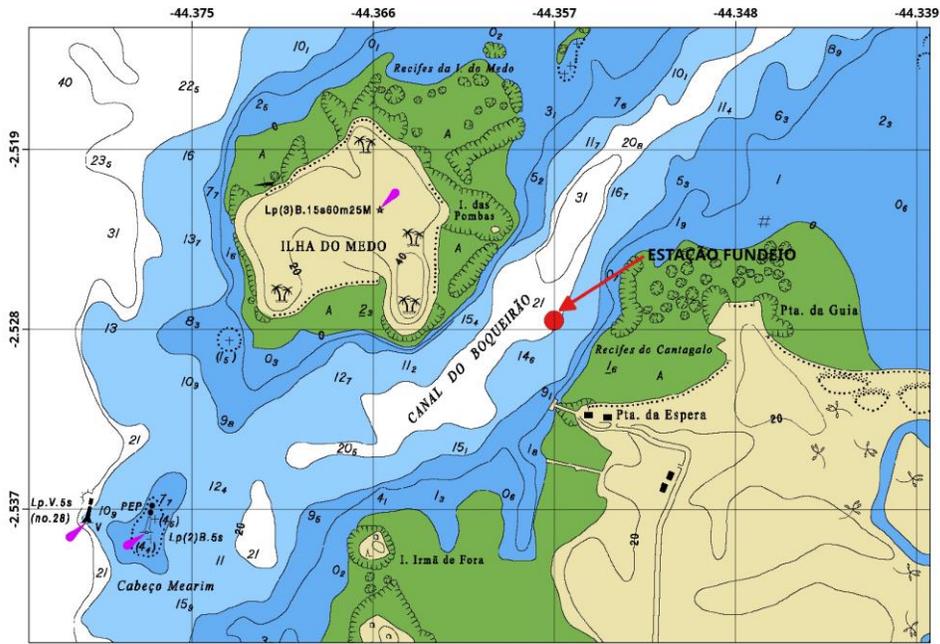
CESM - MDT



Canal do Boqueirão MDT



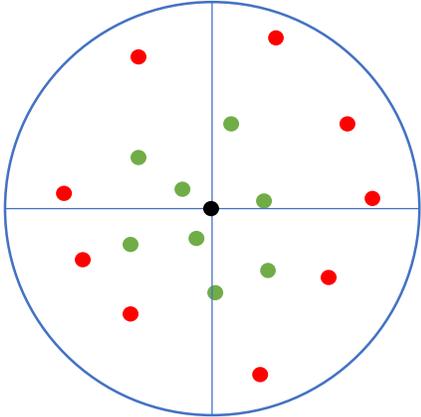


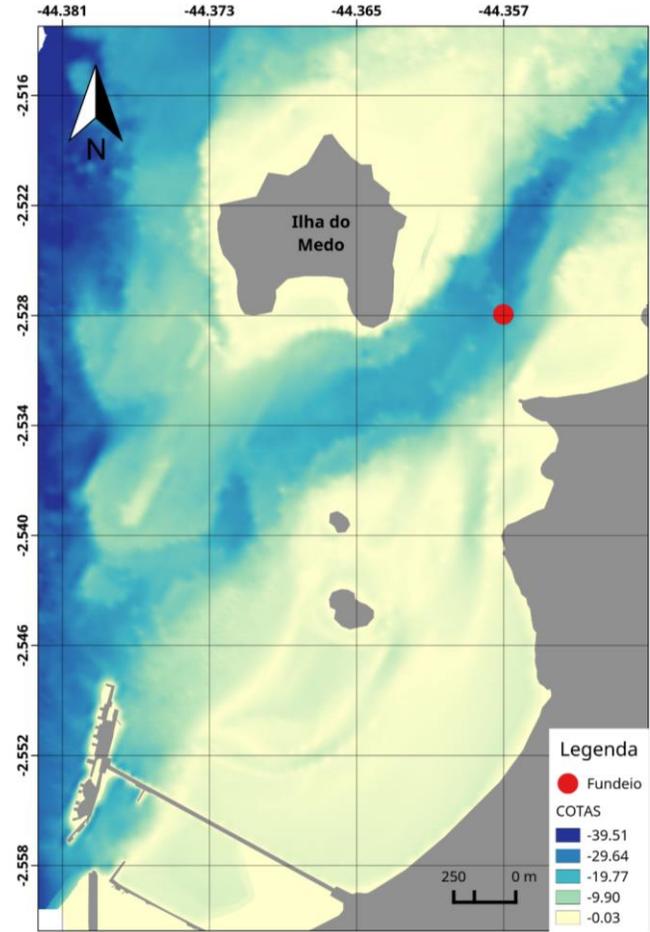
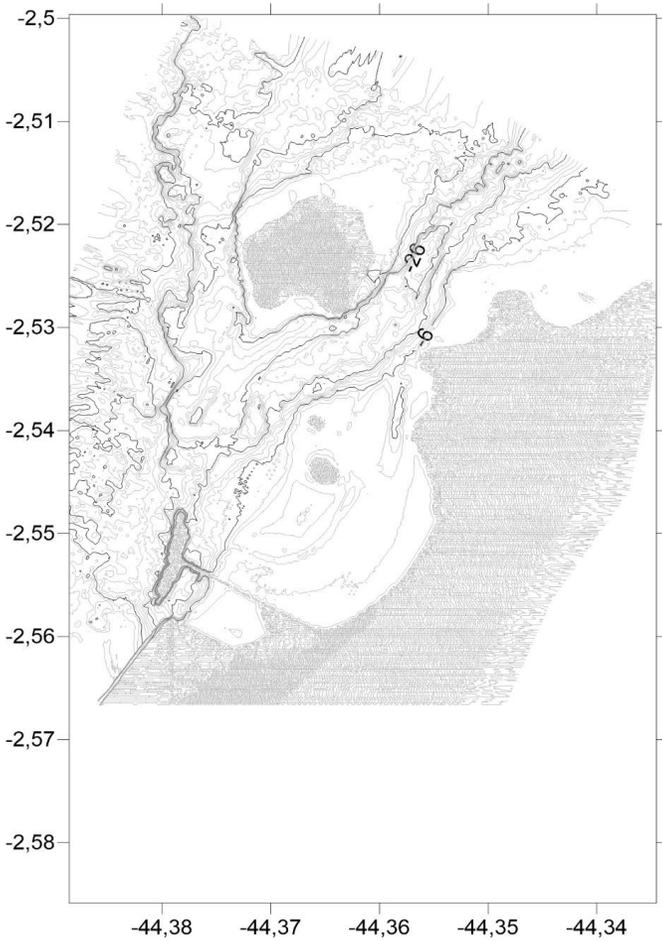


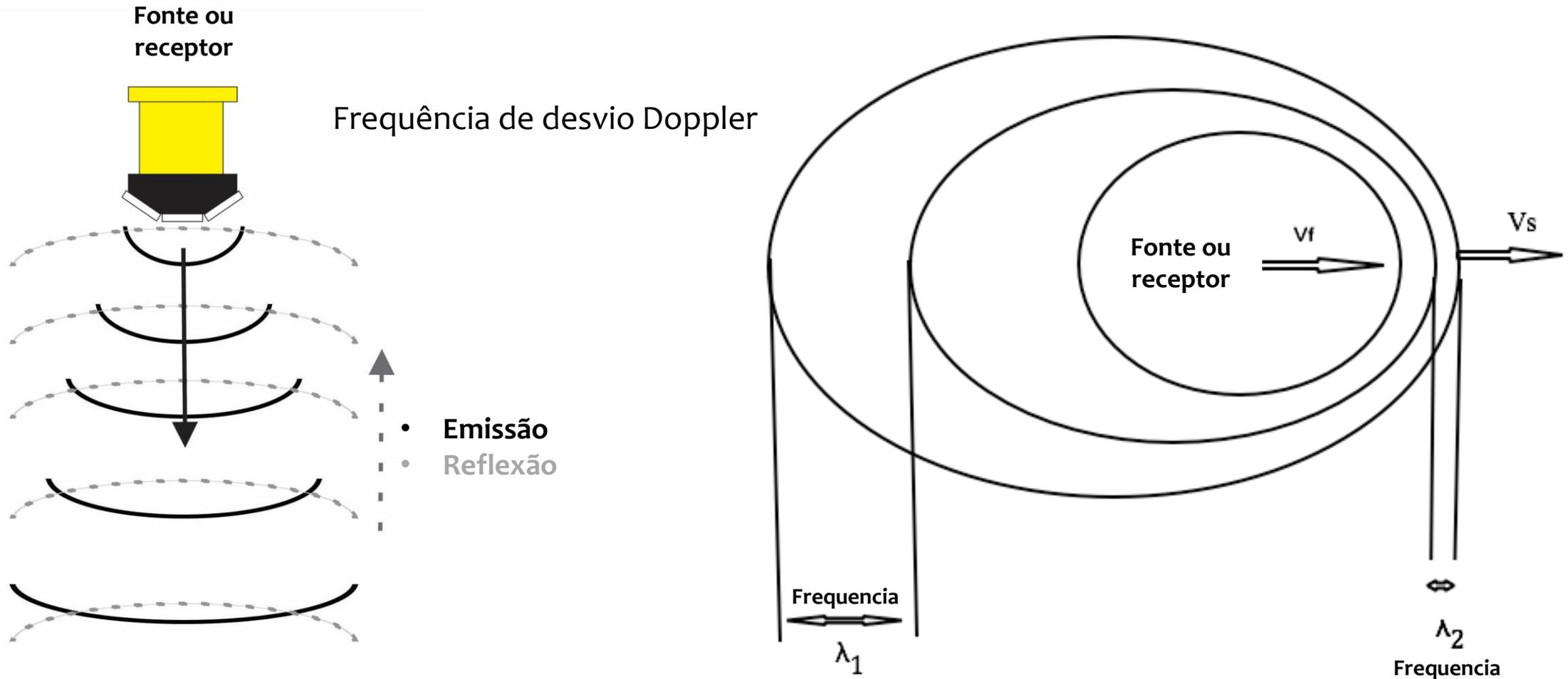


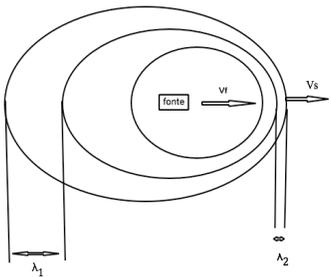
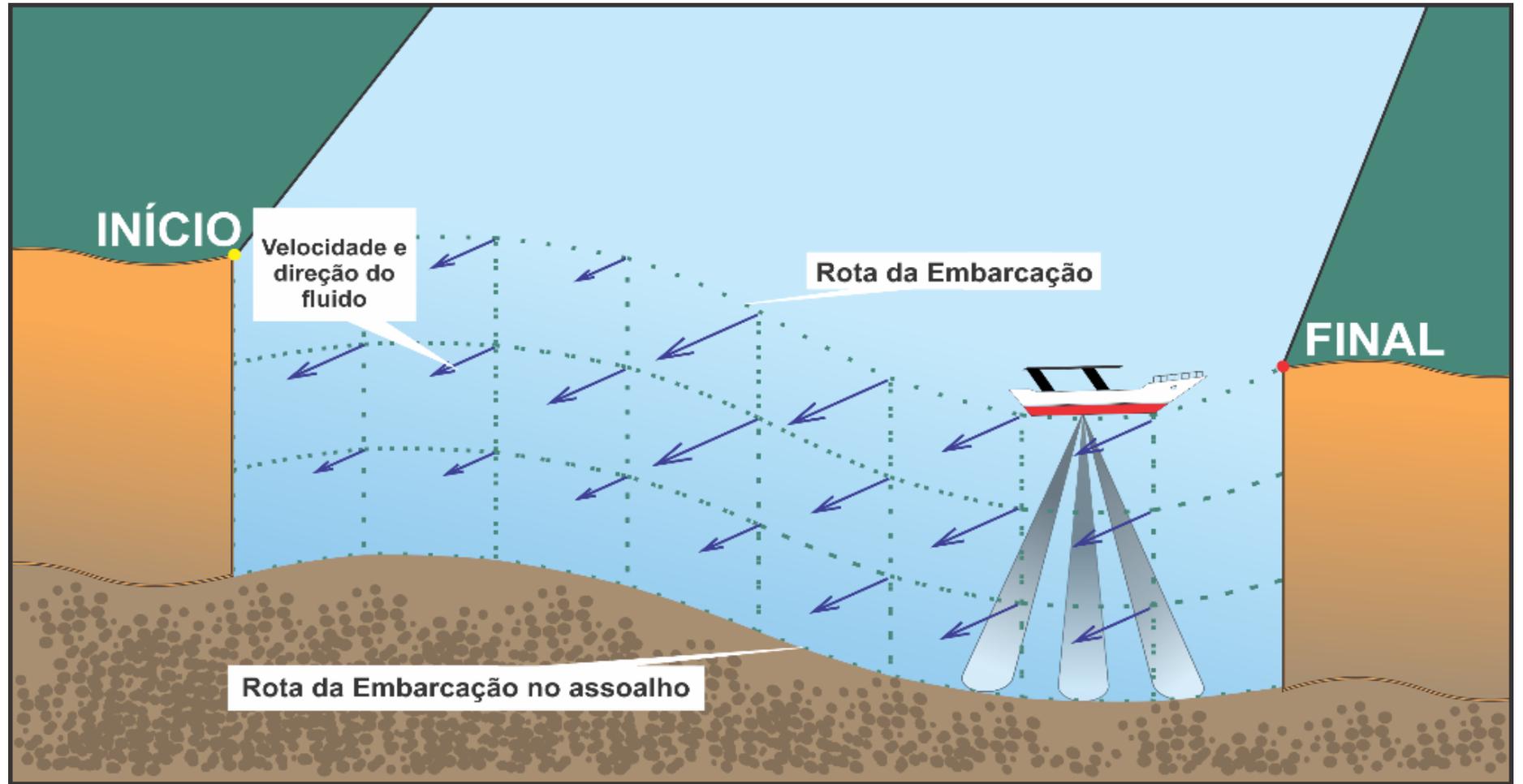
Ambiente computacional

Kriging









Análise cinemática do fluido



ADCP Sontek 500 khz

Abordagem Euleriana

Intervalo de aquisição

Período de 26h

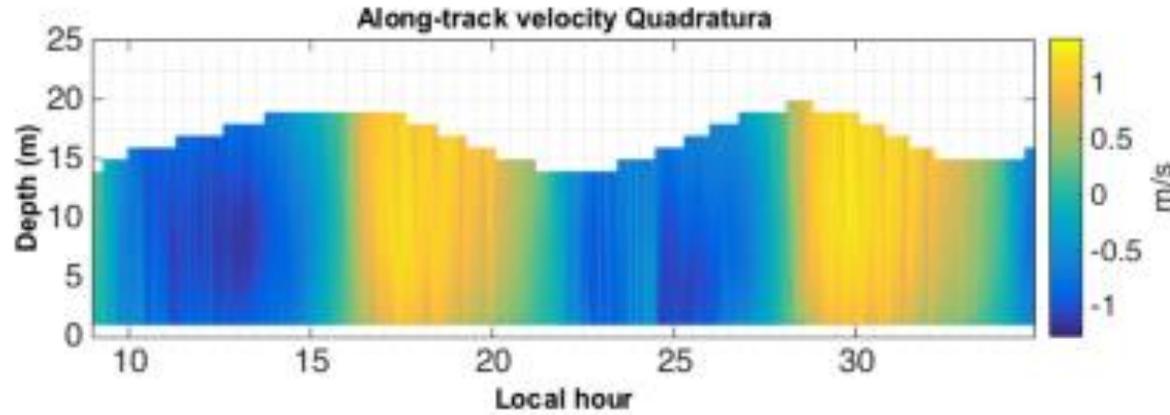
Tratamento dos dados

Dados espúrios

Correção da declinação magnética

Representação em forma de diagrama

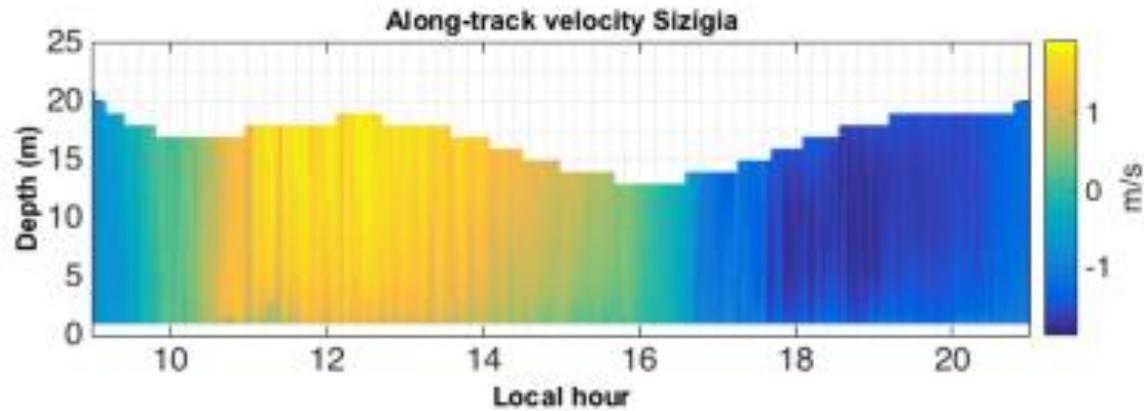


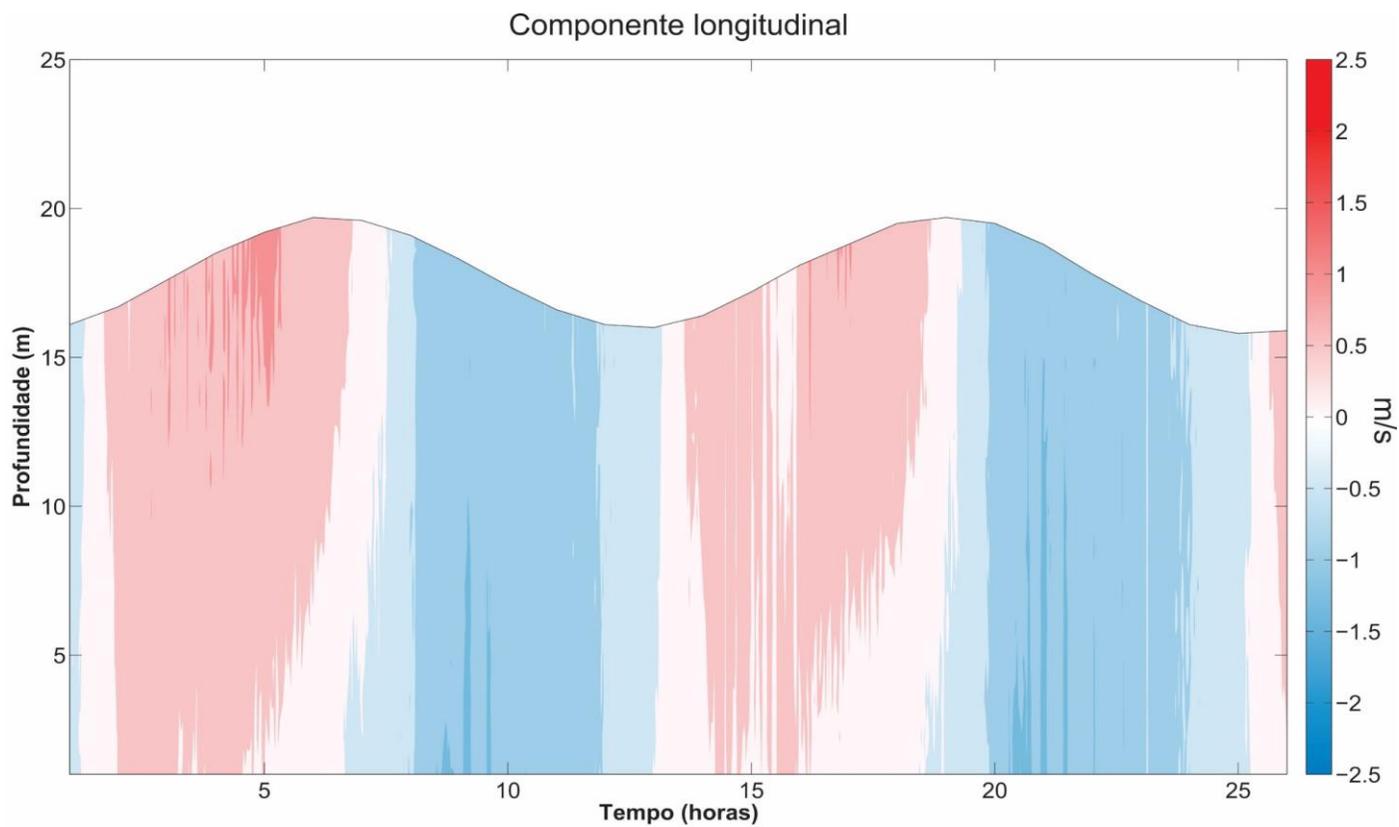
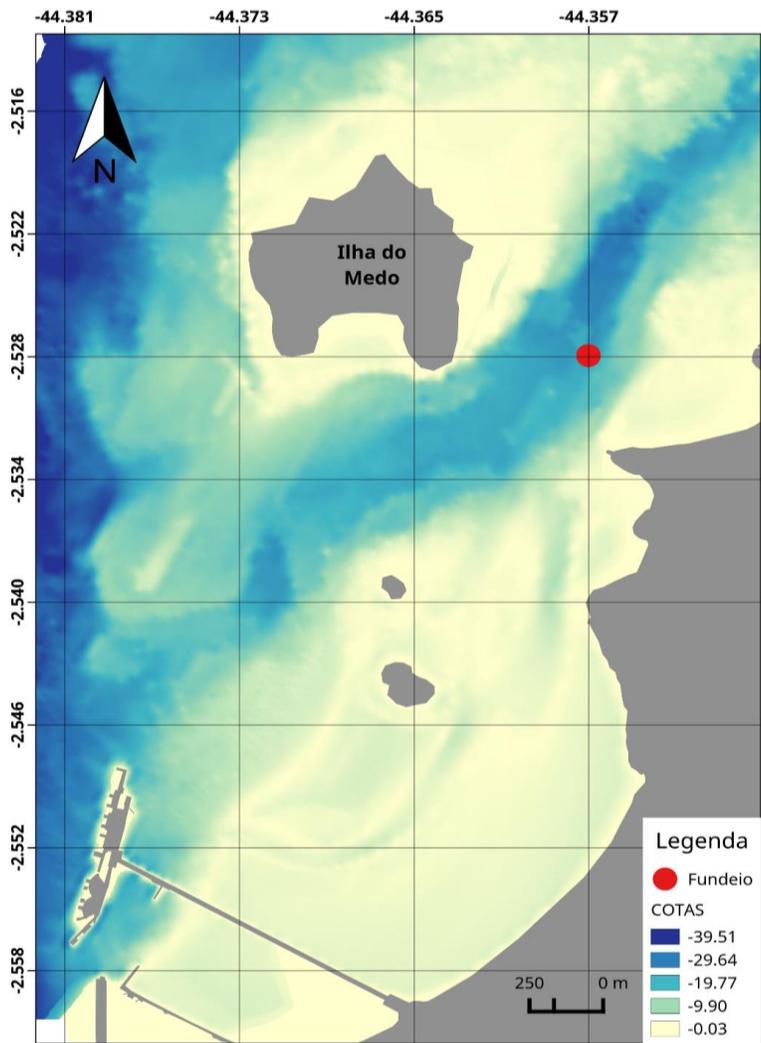


1.2 m/s

Velocidades típicas máximas

1.5 m/s





A análise euleriana do campo de correntes, serviu principalmente para fomentar o modelo matemático que está sendo desenvolvido;

A grade criada servirá como condição de contorno para os modelos;

Com base nos dados podemos ter uma compreensão do comportamento das correntes no canal.

Próximas etapas

Análisar o comportamento do fluido em diversos quadros;

Avaliar o melhor cenário para produção de energia maremotriz;

Otimizar o desenvolvimento do projeto de prospecção energética e exploração de energias das águas.



Obrigado!

