

BGP Technical Seminar 2025

October 17th | Kunming, China

Overview of Exploration Opportunities in Brazil: Technical Insights, R&D and E&P Contracts

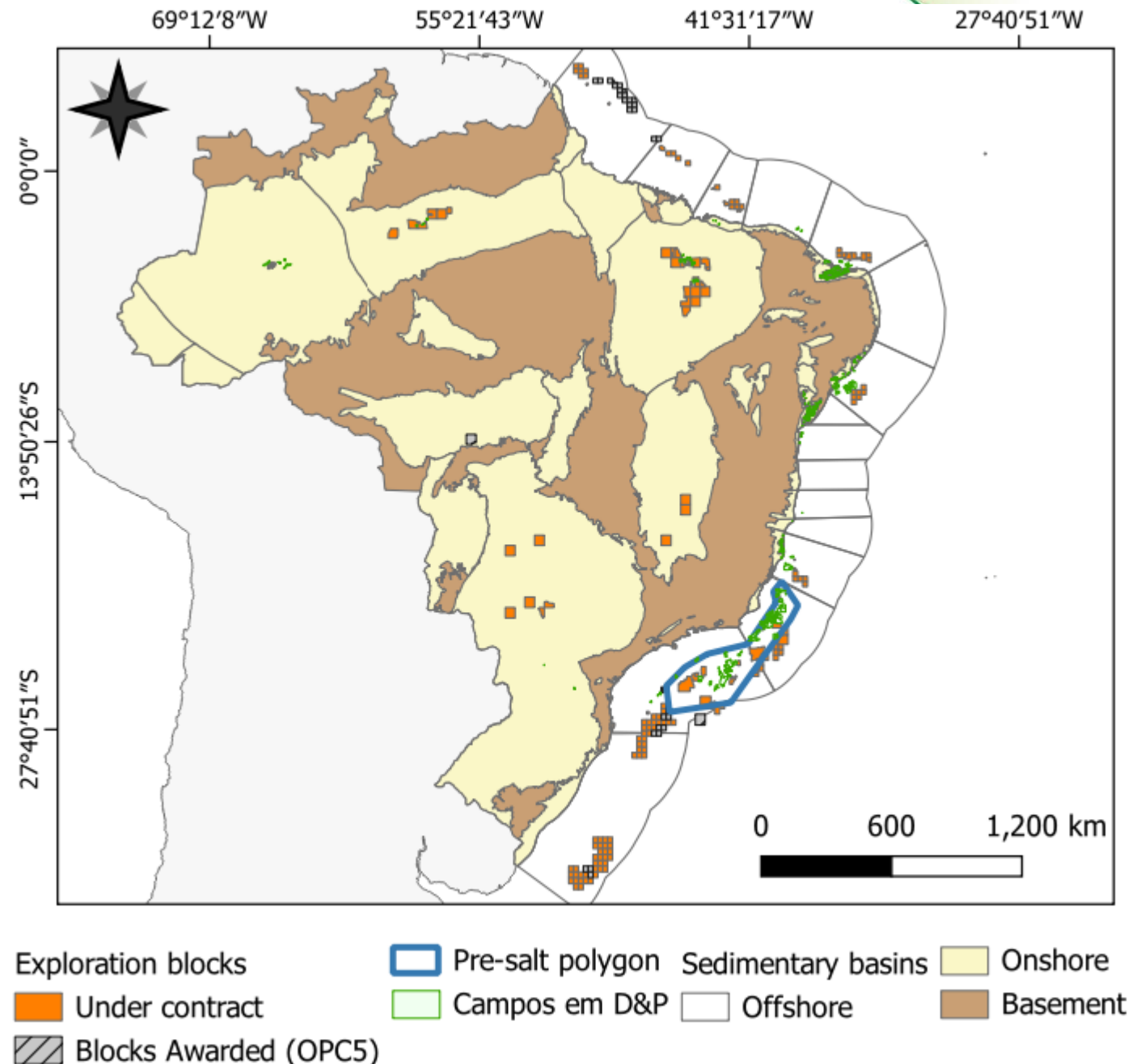
National Agency of Petroleum, Natural Gas and Biofuels (ANP)

Elaine Loureiro



Brazilian Exploration Landscape

- 403 exploration blocks
(131 offshore, 272 onshore)
- 179,000 km²
(44.2% onshore, 55.8% offshore)
- 28 PADs (Appraisal Plans)
- 16 sedimentary basins
- 44 operators
- 34 new contracts expected to be signed
by the end of 2025



RD&I Investment Obligations

E&P Contracts

Concession

1%

of gross revenue from
High-production fields

Production Sharing

1%

of gross revenue

Transfer of Rights

0,5%

of gross revenue

2017-2024

Rounds 14, 15, 16 & 17 (Conc.)
Rounds 2, 3, 4, 5 & 6 (PSA)

Accredited research
institutions

30 - 40 %

Brazilian companies

30 - 40 %

In-house R&D of
Brazilian companies

20 - 40 %



R&D Prioritization for Energy Transition

Established Public Energy Policies in Brazil

CNPE 2/2021



CNPE 7/2025



**NATIONAL COUNCIL FOR
ENERGY POLICY**

Article 1 - Instructs ANEEL and ANP to prioritize, within their respective mandates, the allocation of R&D and Innovation resources to the following strategic topics for the energy sector:

- I - Hydrogen;
- II - Nuclear Energy;
- III - Biofuels and energy recovery from waste-derived biogas;
- IV - Energy Storage;
- V - Technologies for sustainable thermal power generation;
- VI - Digital Transformation;
- VII - Strategic Minerals for the Energy Sector;
- VIII - Carbon dioxide capture, storage, transportation, and utilization (CCUS);
- IX - Reduction of fugitive methane emissions;
- X - Energy Efficiency;
- XI - Wind Energy.

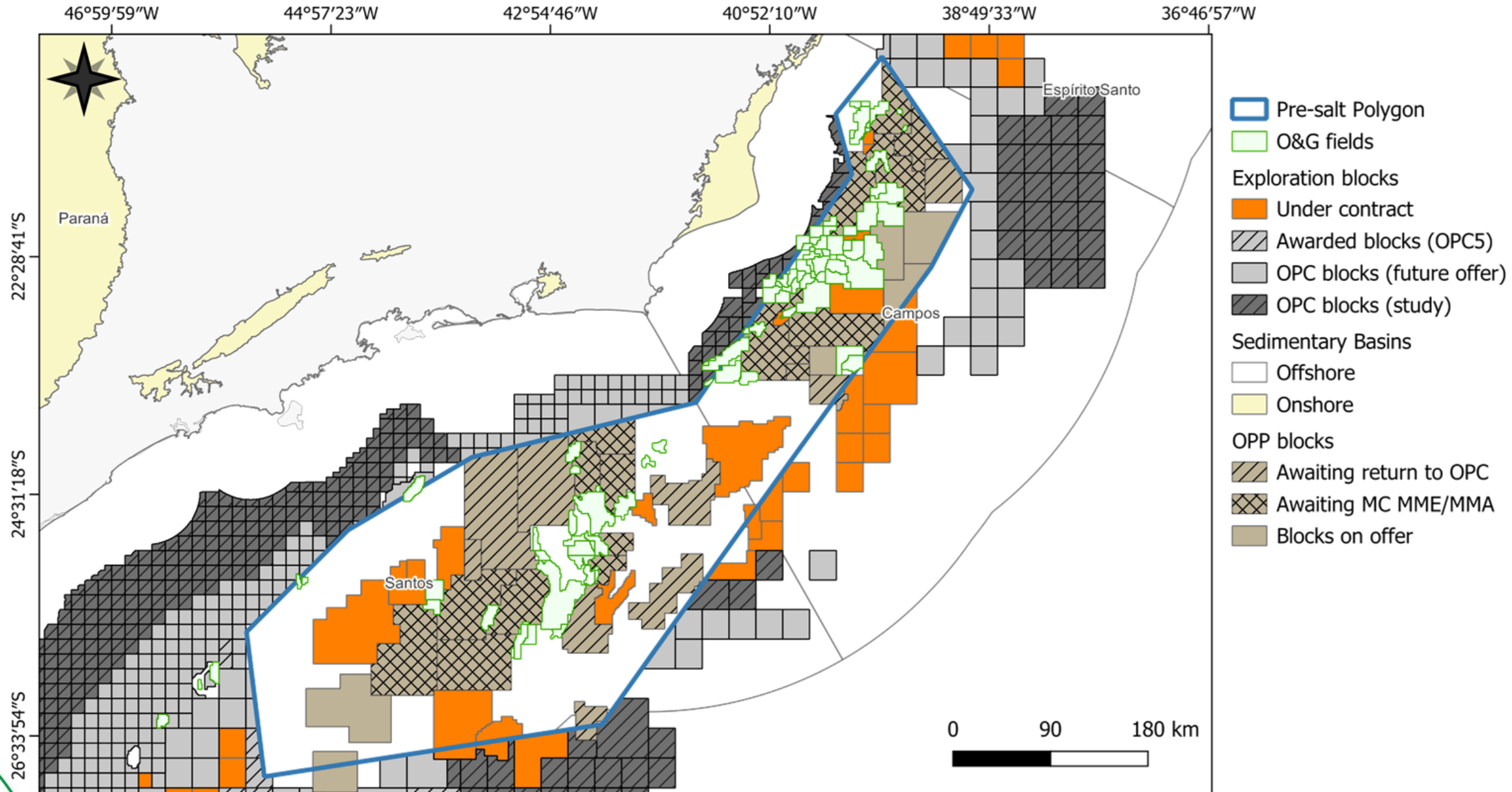
Open Acreage

- Companies meeting all registration requirements and approved by the Open Acreage Bidding Round Special Commission may submit a declaration of interest for specific blocks or areas, accompanied by the bid bond and required documentation.
- Once the declaration of interest is approved, the Open Acreage Bidding Round Special Commission initiates a new cycle and publishes its schedule, with public bidding sessions usually held within 120 days of the approval.
- Each Open Acreage cycle includes a published schedule with key deadlines for payments, documentation, and requirements.

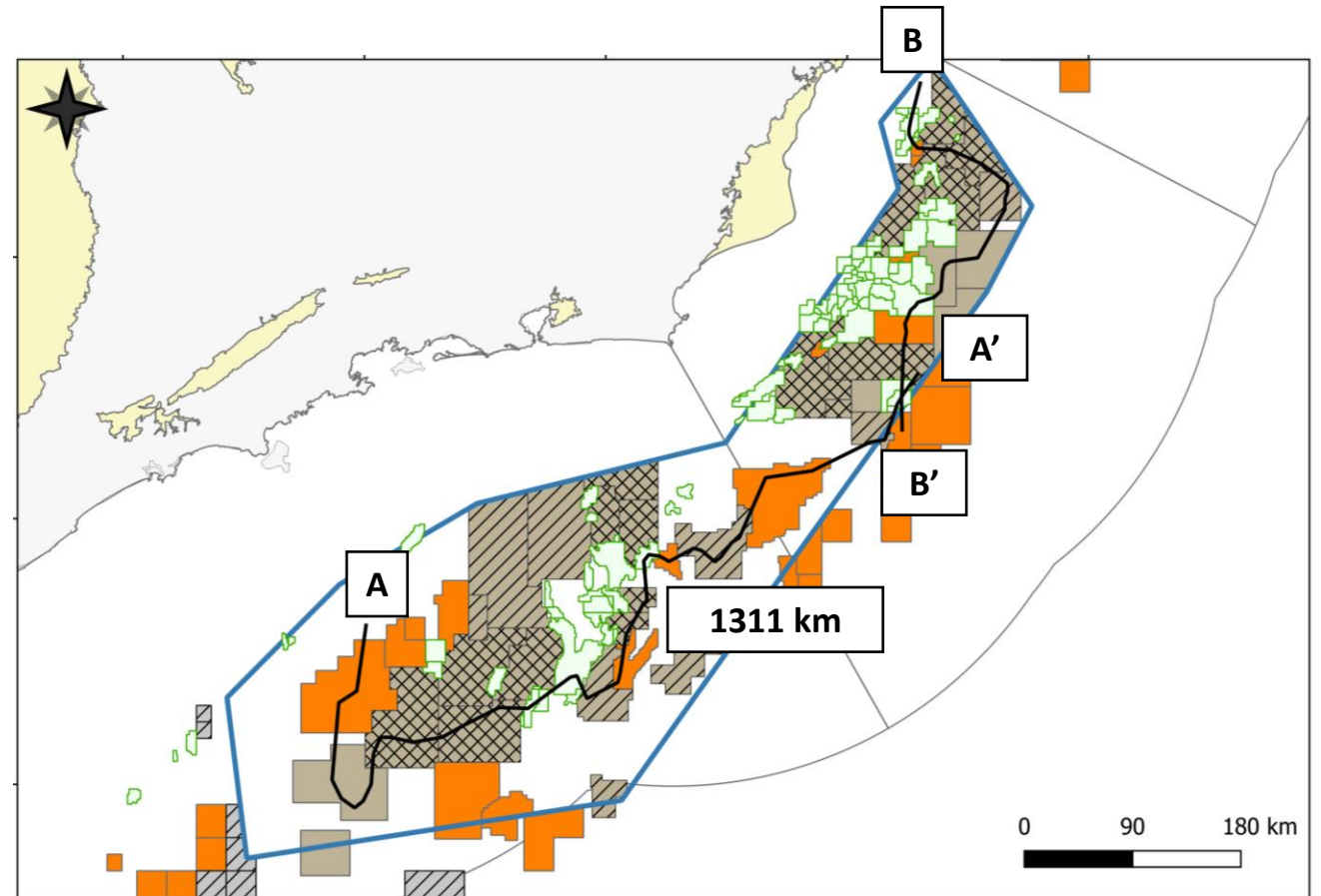
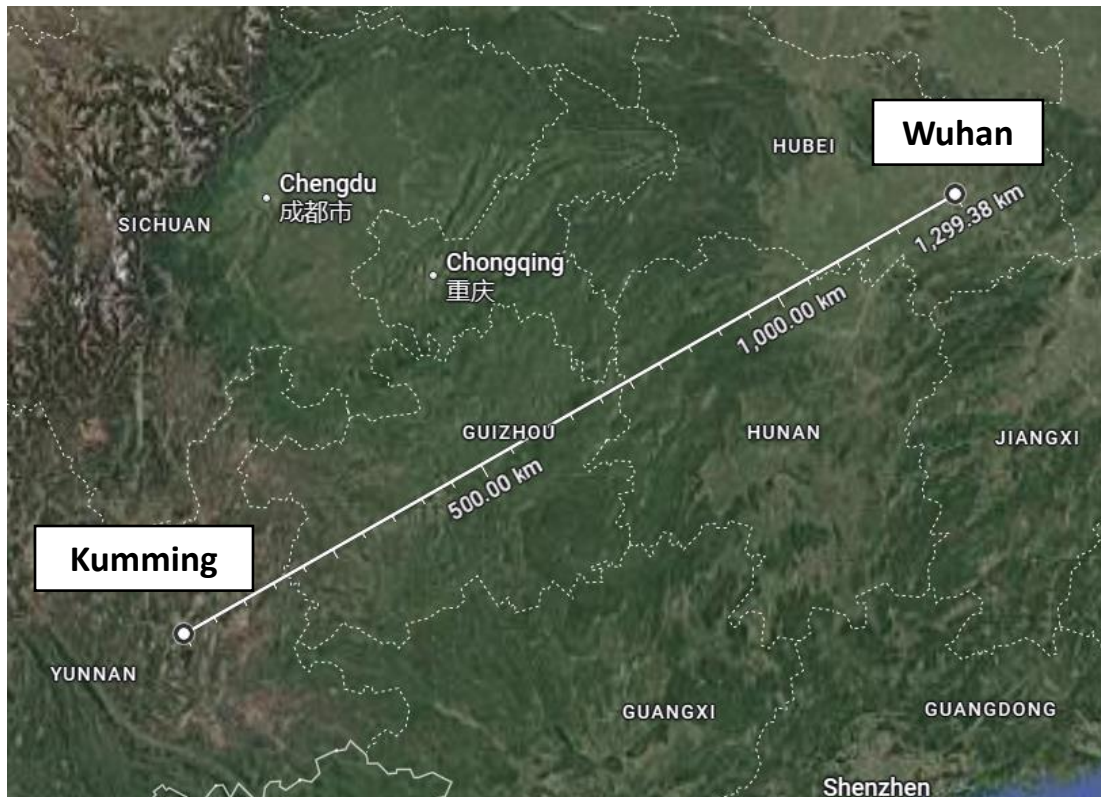
Open Acreage under the Production Sharing Regime

- The Open Acreage is a continuous offering of exploration blocks in both onshore and offshore basins.
 - Blocks located within the pre-salt polygon and other strategic areas require prior approval by the CNPE before being included in the Open Acreage.
- As it is a continuous process, the bidding instruments (public notice and draft contracts) may be updated over time. These updates may result from the inclusion or exclusion of offered blocks, adjustments to available areas, or improvements to the tender protocol and production sharing contract models.

Open Acreage under the Production Sharing Regime

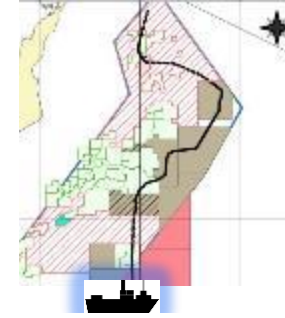


Open Acreage under the Production Sharing Regime Santos and Campos Basins



Regional Cross Section

Campos Basin



RAIA MANTA
1-REPF-12D-RJS

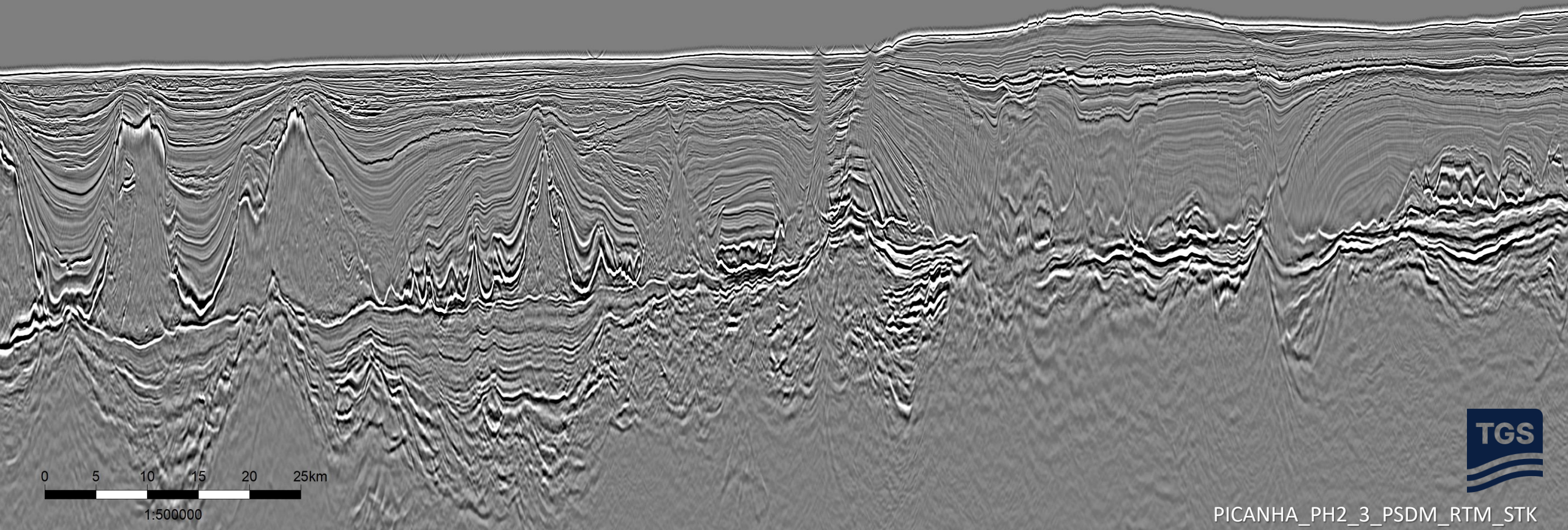
RAIA PINTADA

CALCITA

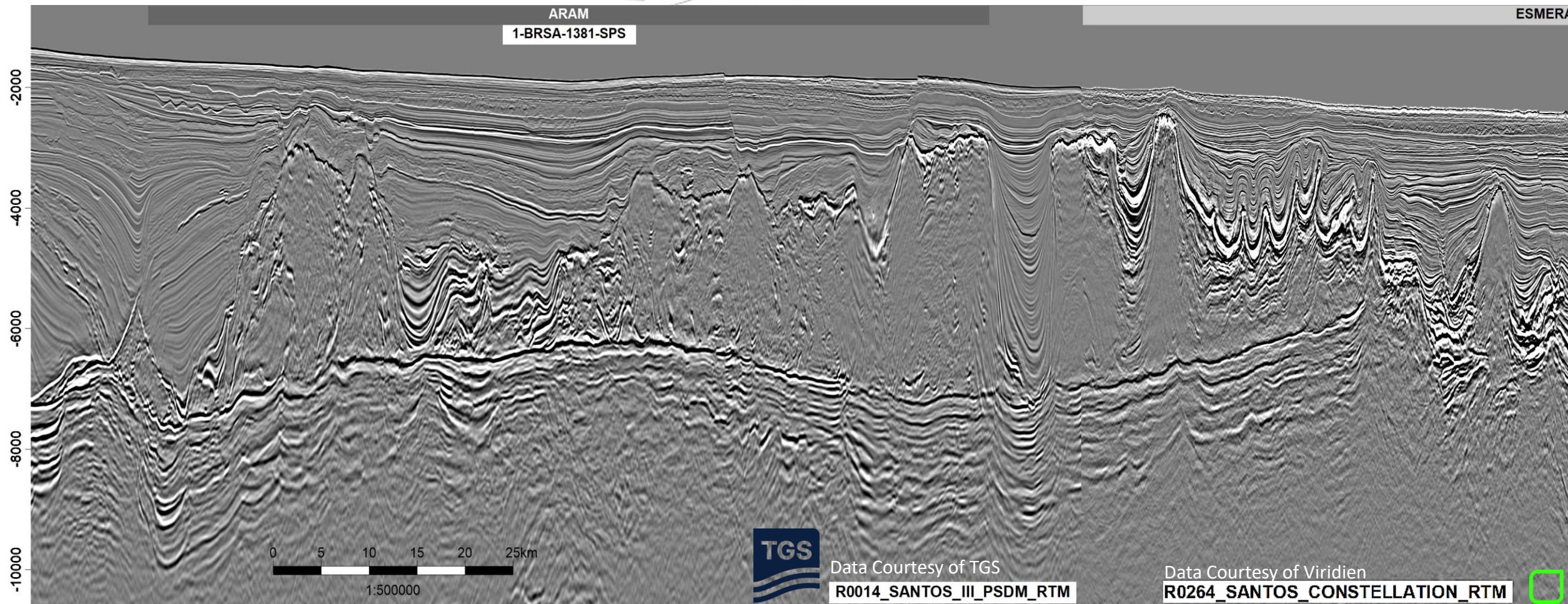
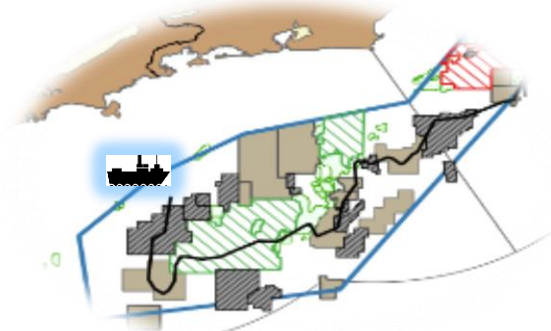
ÁGUA MARINHA

MARLIM SUL

CINTRINO



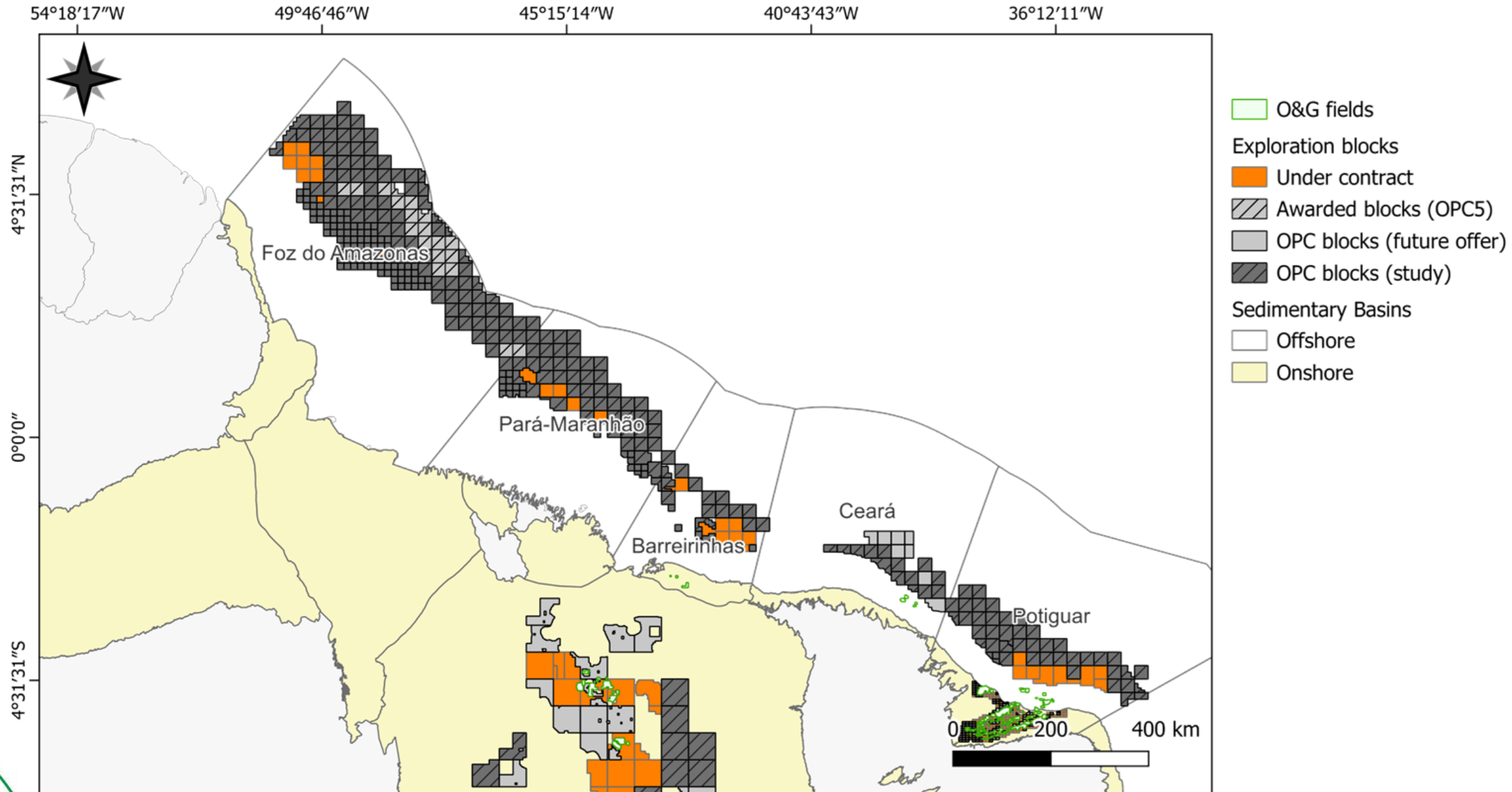
Regional Cross Section *Santos Basin*



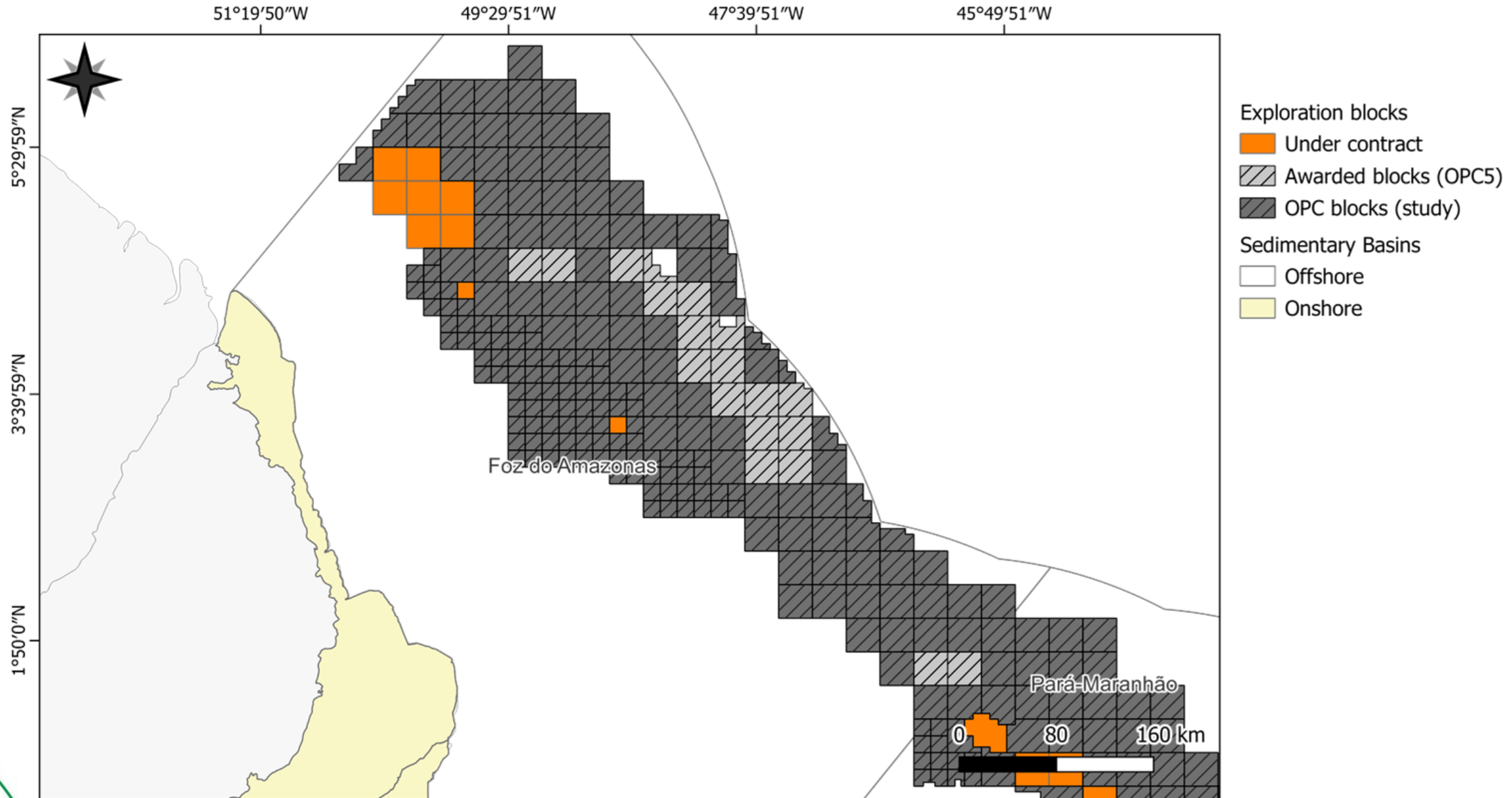
Open Acreage under the Concession Regime

- The Open Acreage under the Concession Regime offers:
 - new exploration blocks,
 - blocks not awarded in previous Open Acreage cycles,
 - exploration blocks relinquished to the ANP and reinstated in the offer, and
 - areas with marginal accumulations.
- These areas are available for oil and natural gas exploration, development, and production under the concession framework.
- To participate, companies must register in accordance with the tender protocol. Once approved and their registration is kept up to date, they are qualified to act as bidders.
- Each Open Acreage Concession cycle begins with the submission of a declaration of interest and a bid bond, followed by a schedule defined by the Open Acreage Bidding Round Special Commission, lasting from 120 to 180 days until the public bidding session.

Open Acreage under the Concession Regime - Equatorial Margin Basins



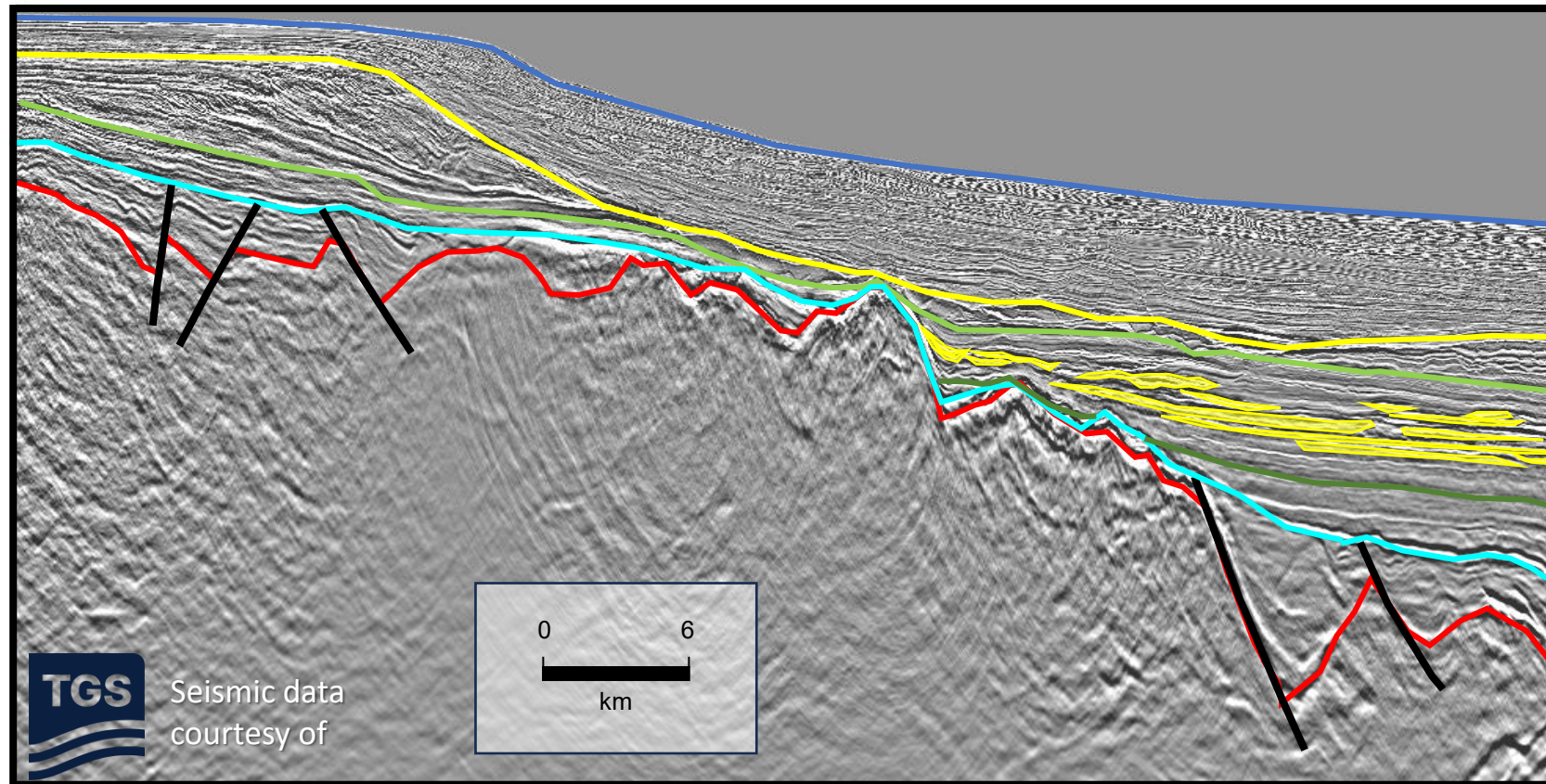
Open Acreage under the Concession Regime – Foz do Amazonas Basin



Open Acreage under the Concession Regime – Foz do Amazonas Basin

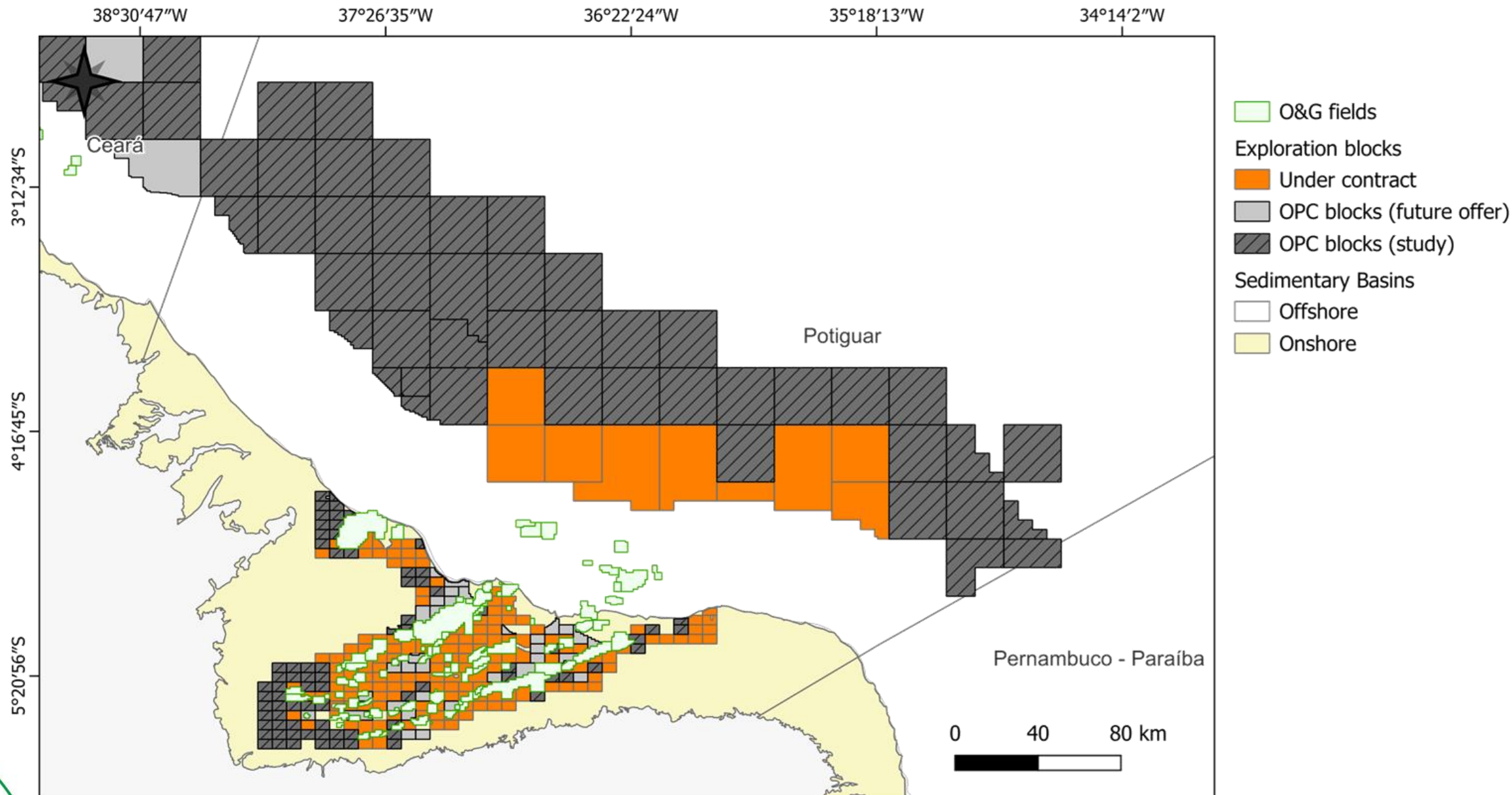
SW

NE

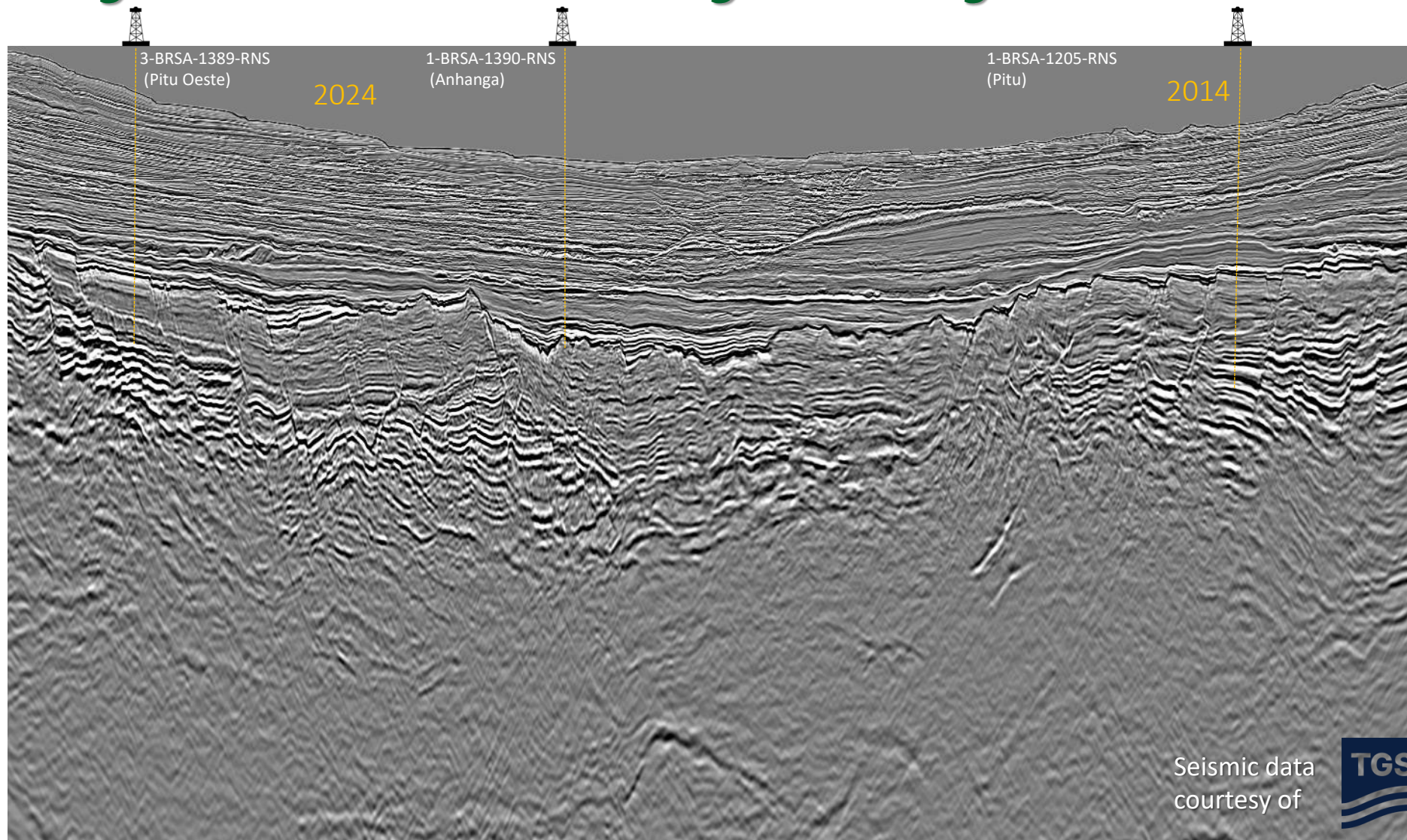


3D Inline – Survey R0257_3D_NAP1

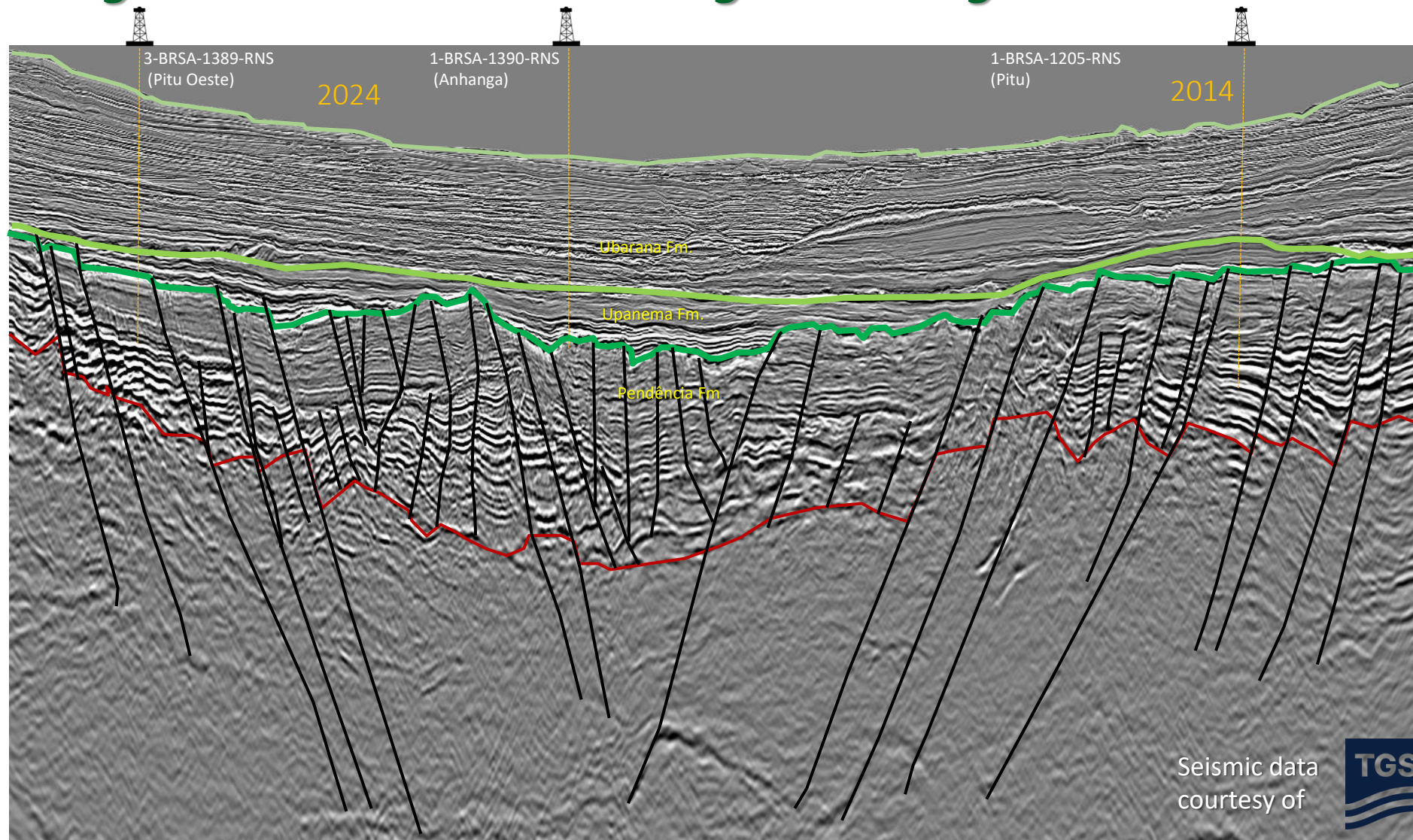
Open Acreage under the Concession Regime – Potiguar



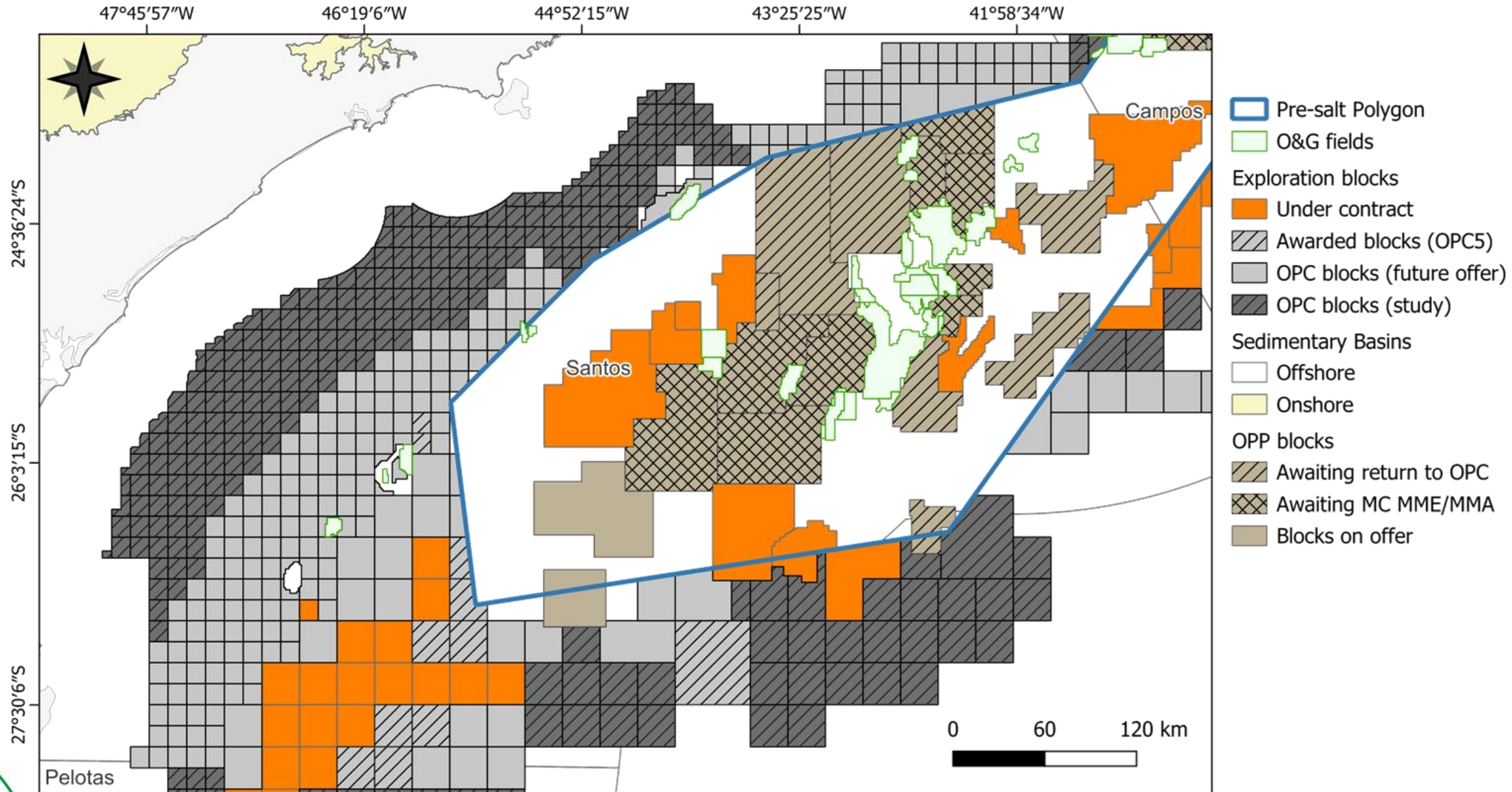
Open Acreage under the Concession Regime – Potiguar Basin



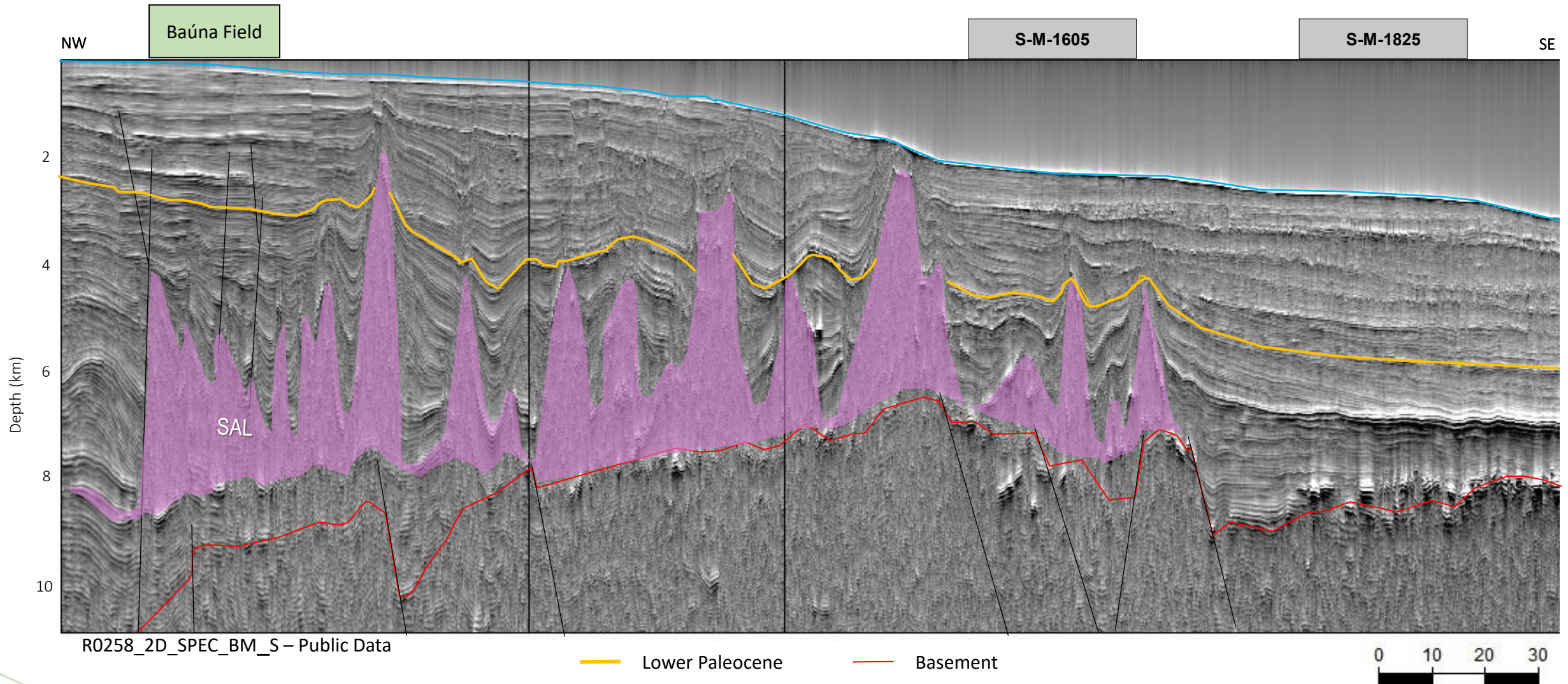
Open Acreage under the Concession Regime – Potiguar Basin



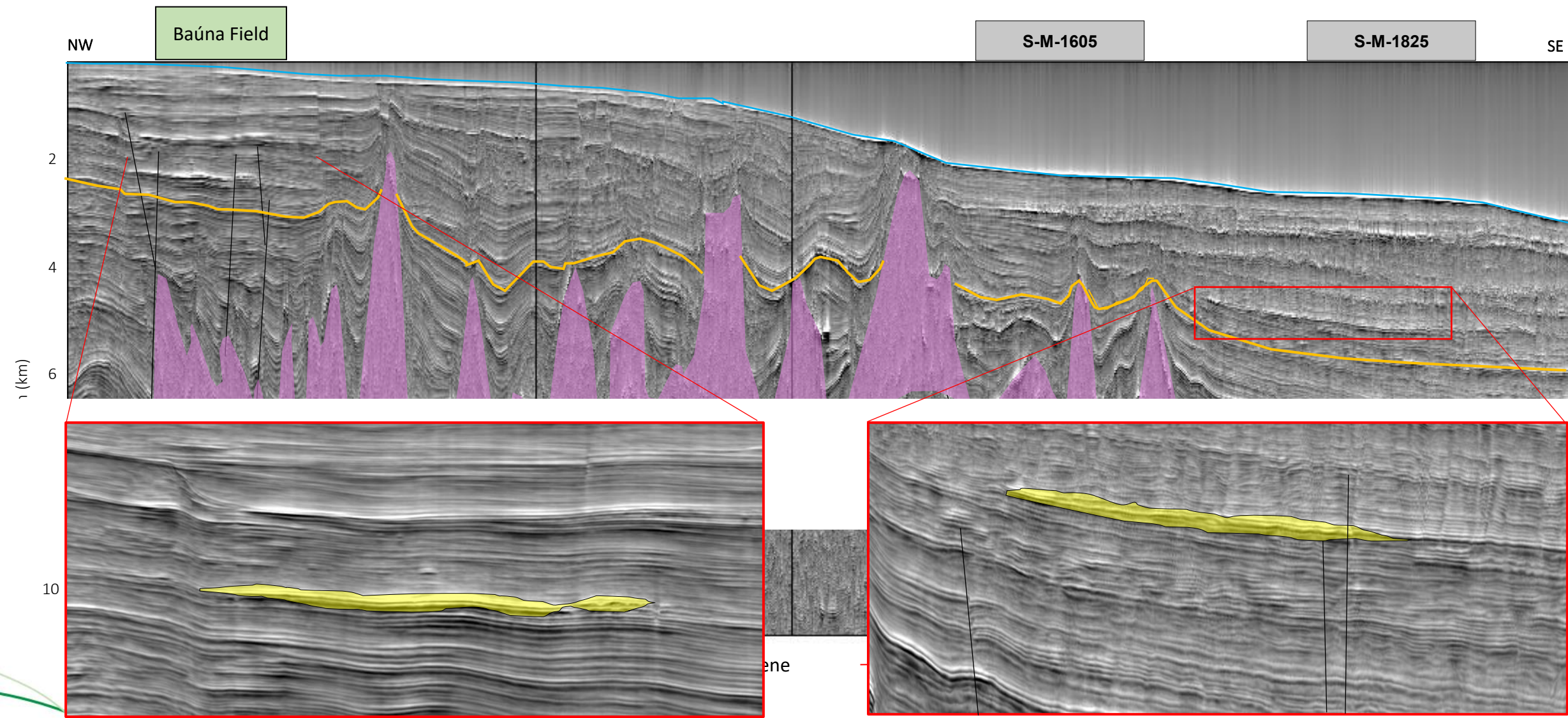
Open Acreage under the Concession Regime - Santos



Open Acreage under the Concession Regime – Santos Basin

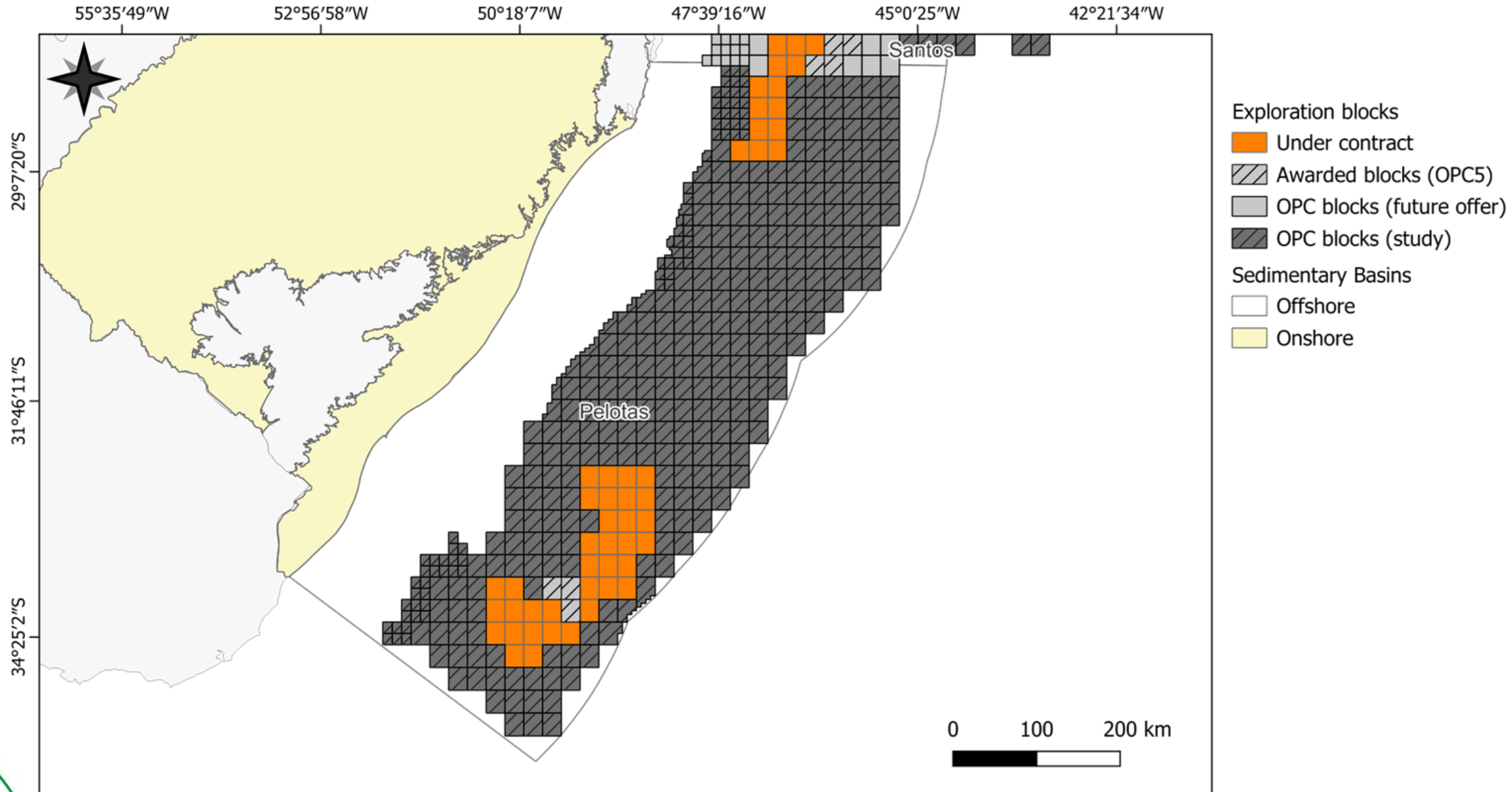


Open Acreage of Concession – Santos Basin



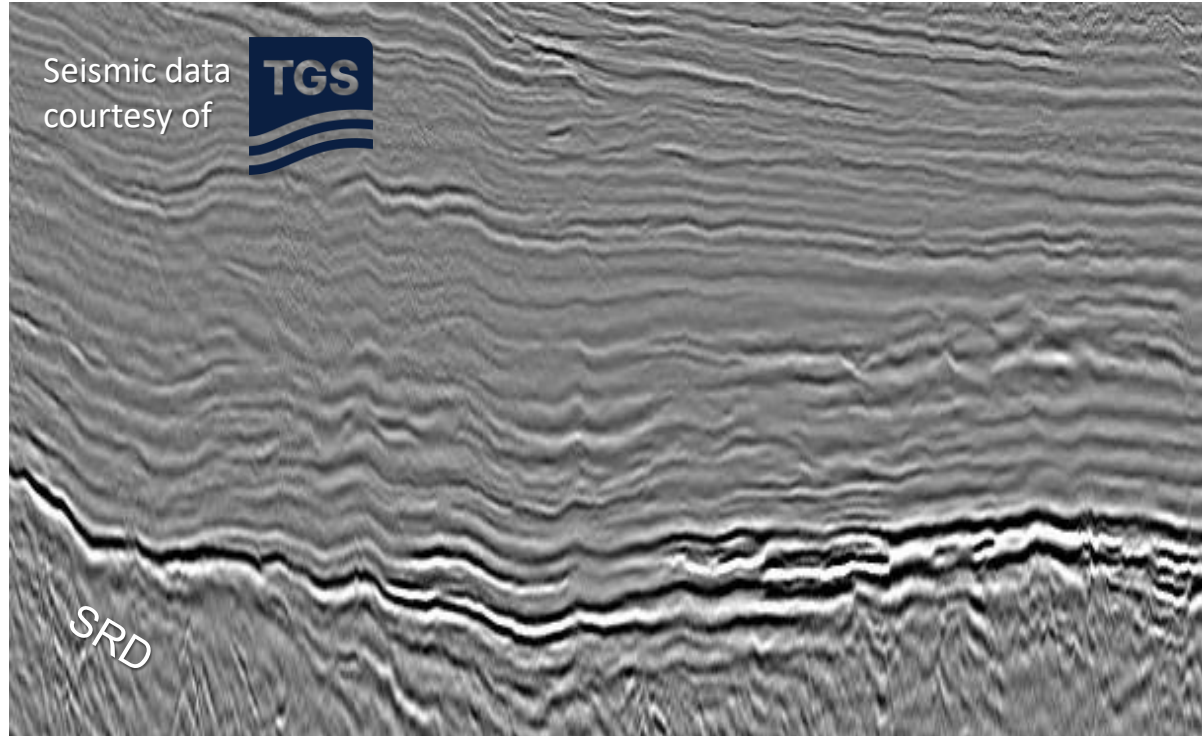
Public Survey: R0258_2D_SPEC_BM_S

Open Acreage under the Concession Regime – Pelotas



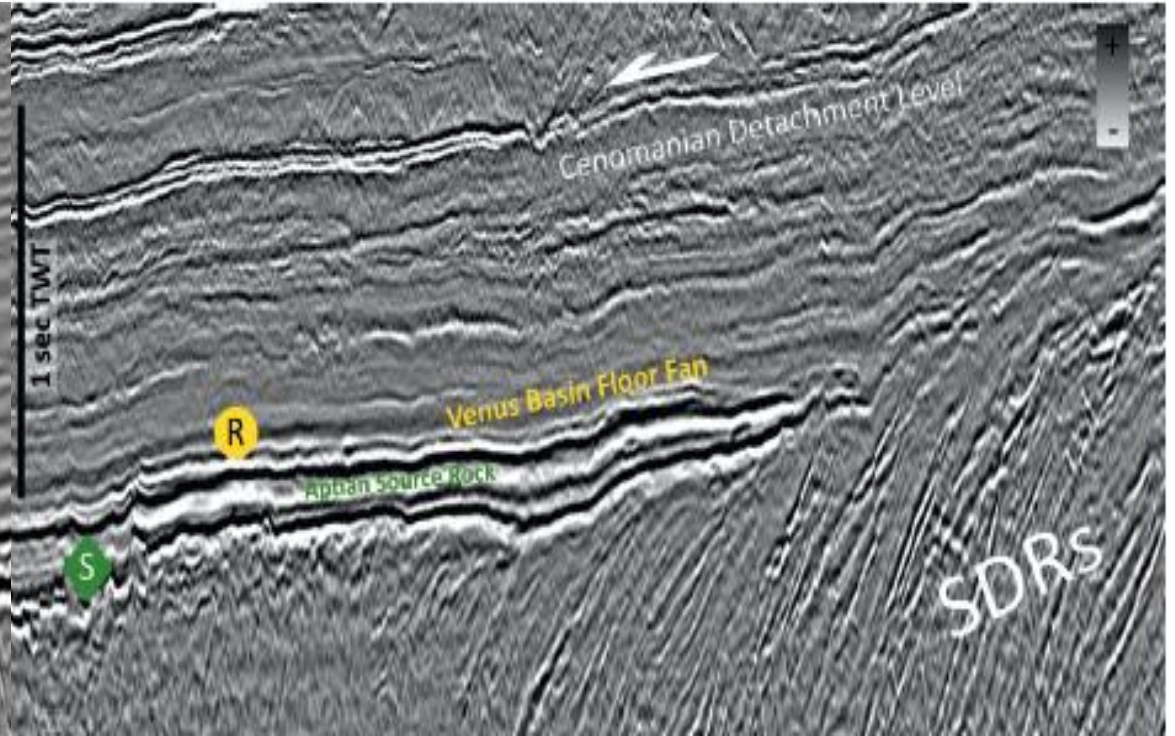
Open Acreage under the Concession Regime – Pelotas Basin

Pelotas Basin - Brazil



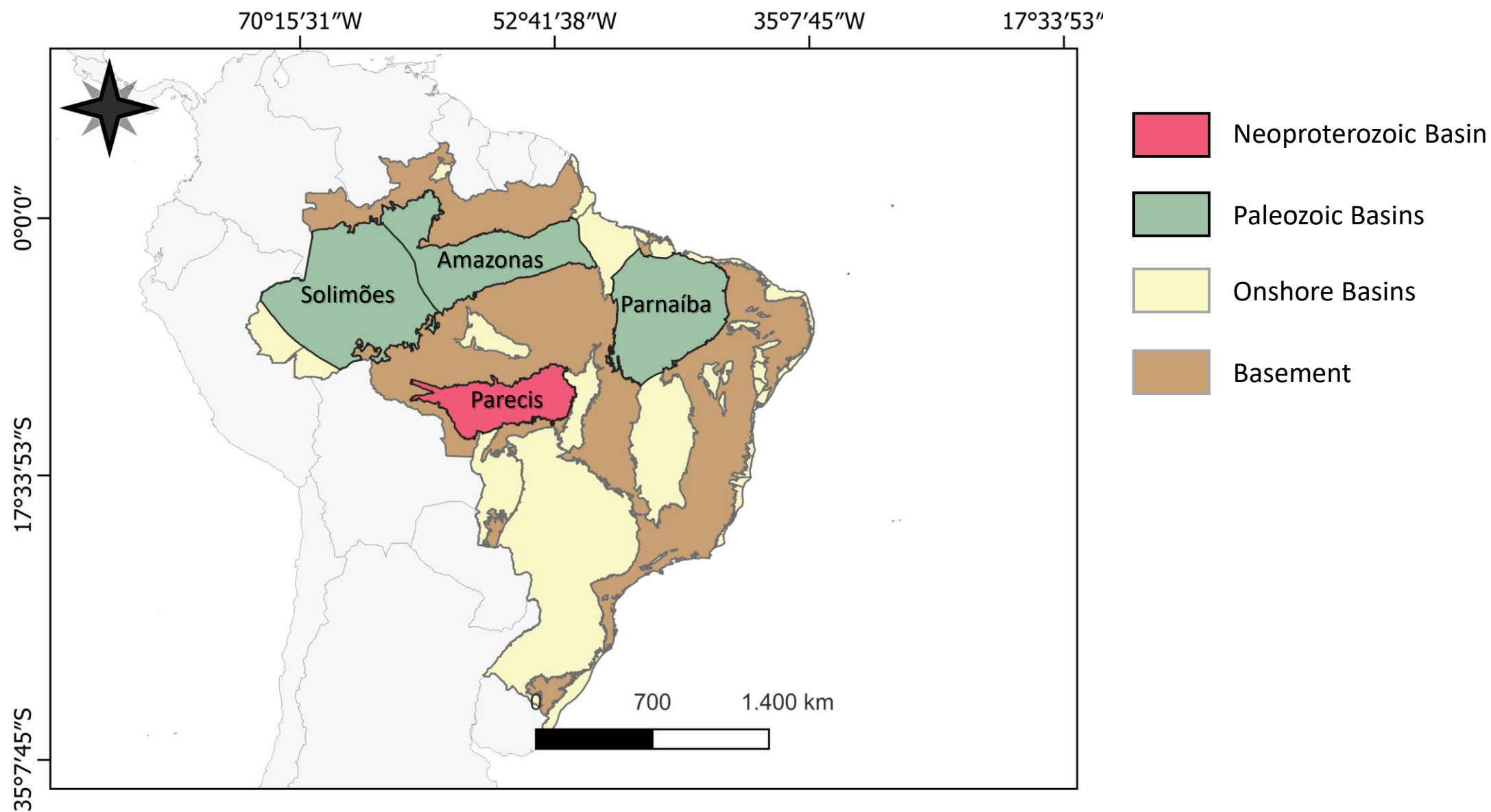
Line 0257-7740 - Survey R0257_2D_PEP1_PEP2

Orange Basin - Namibia

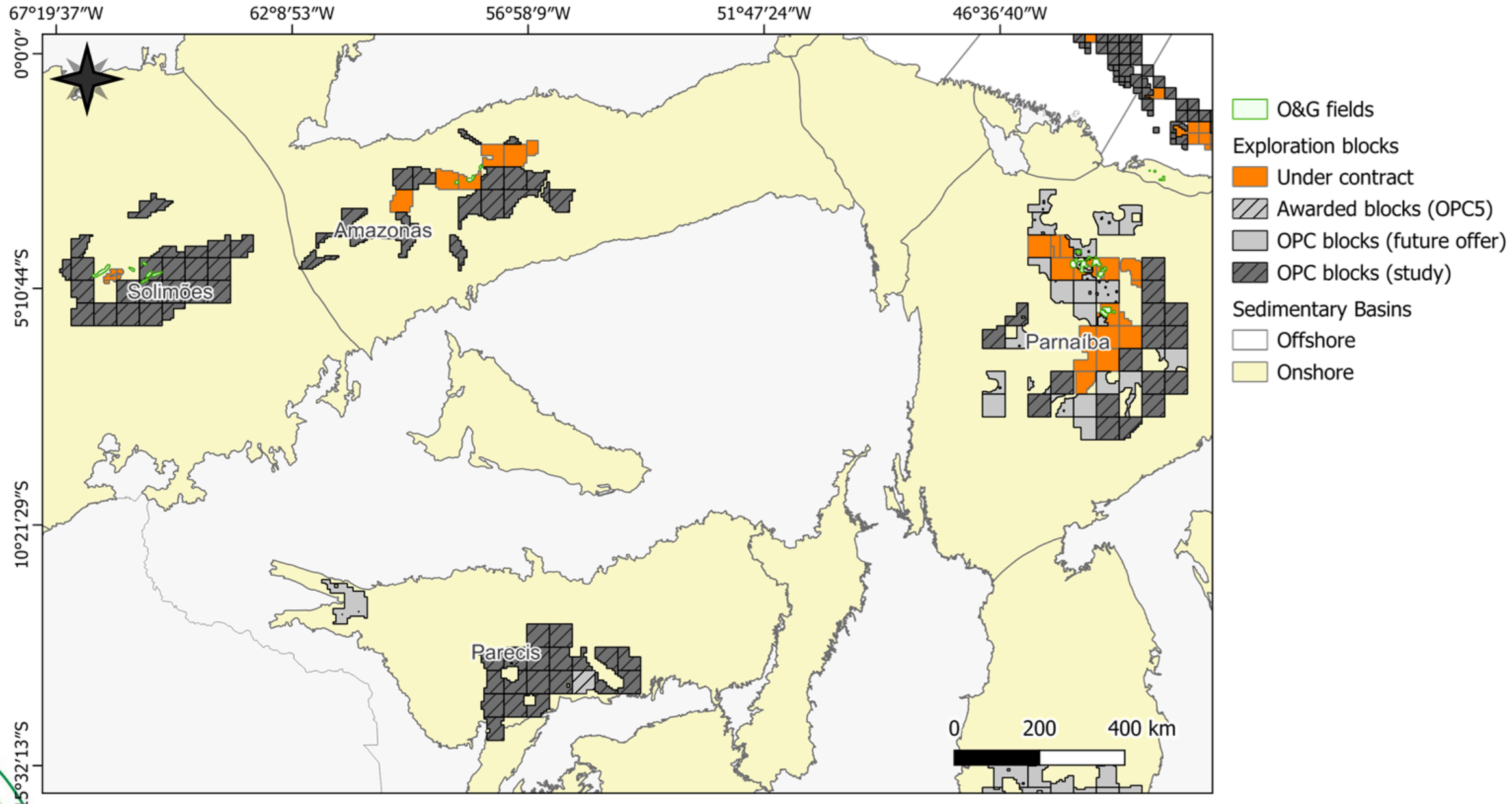


Hedley et al. (2022)

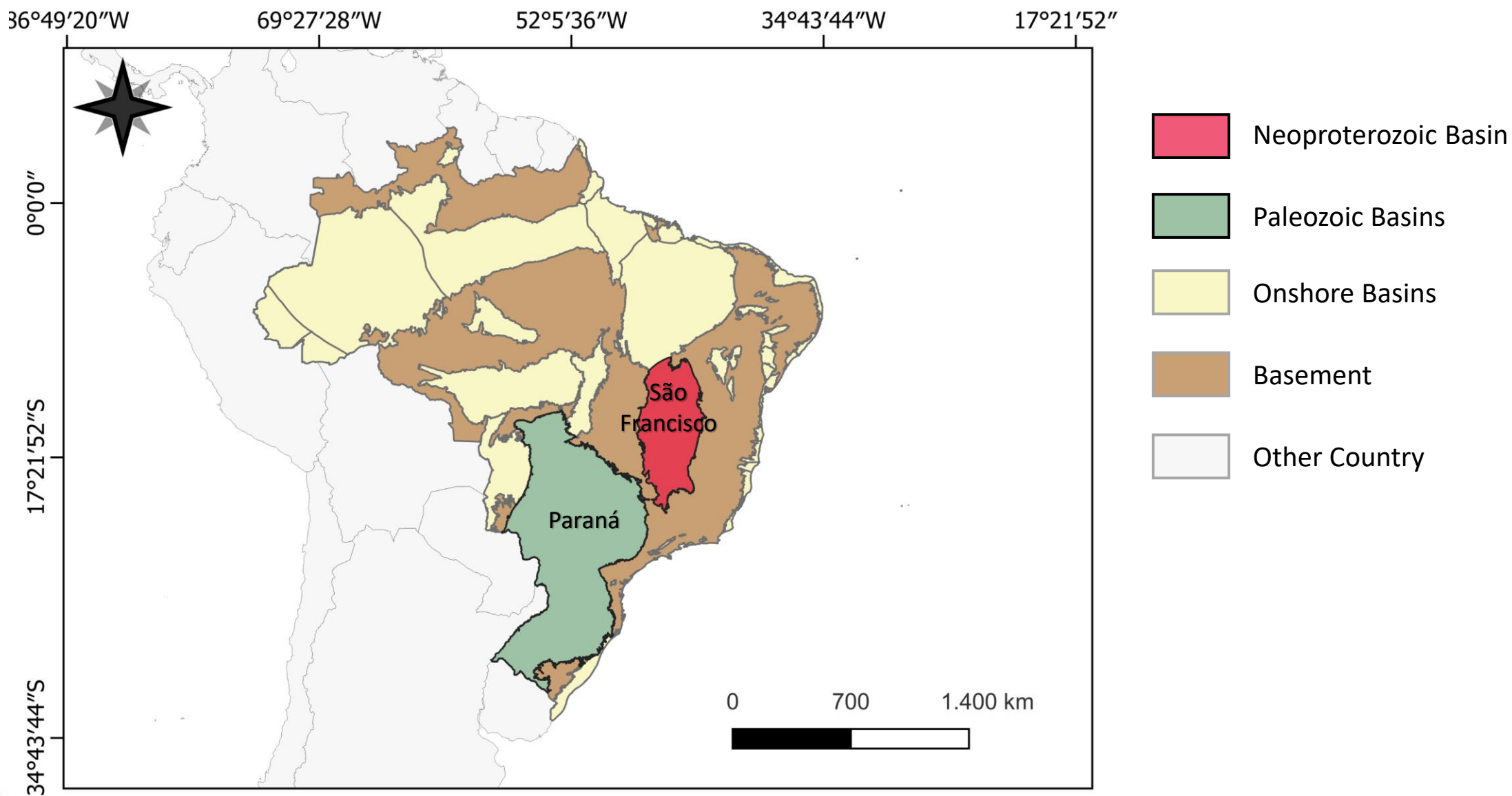
Open Acreage under the Concession Regime – Onshore Basins



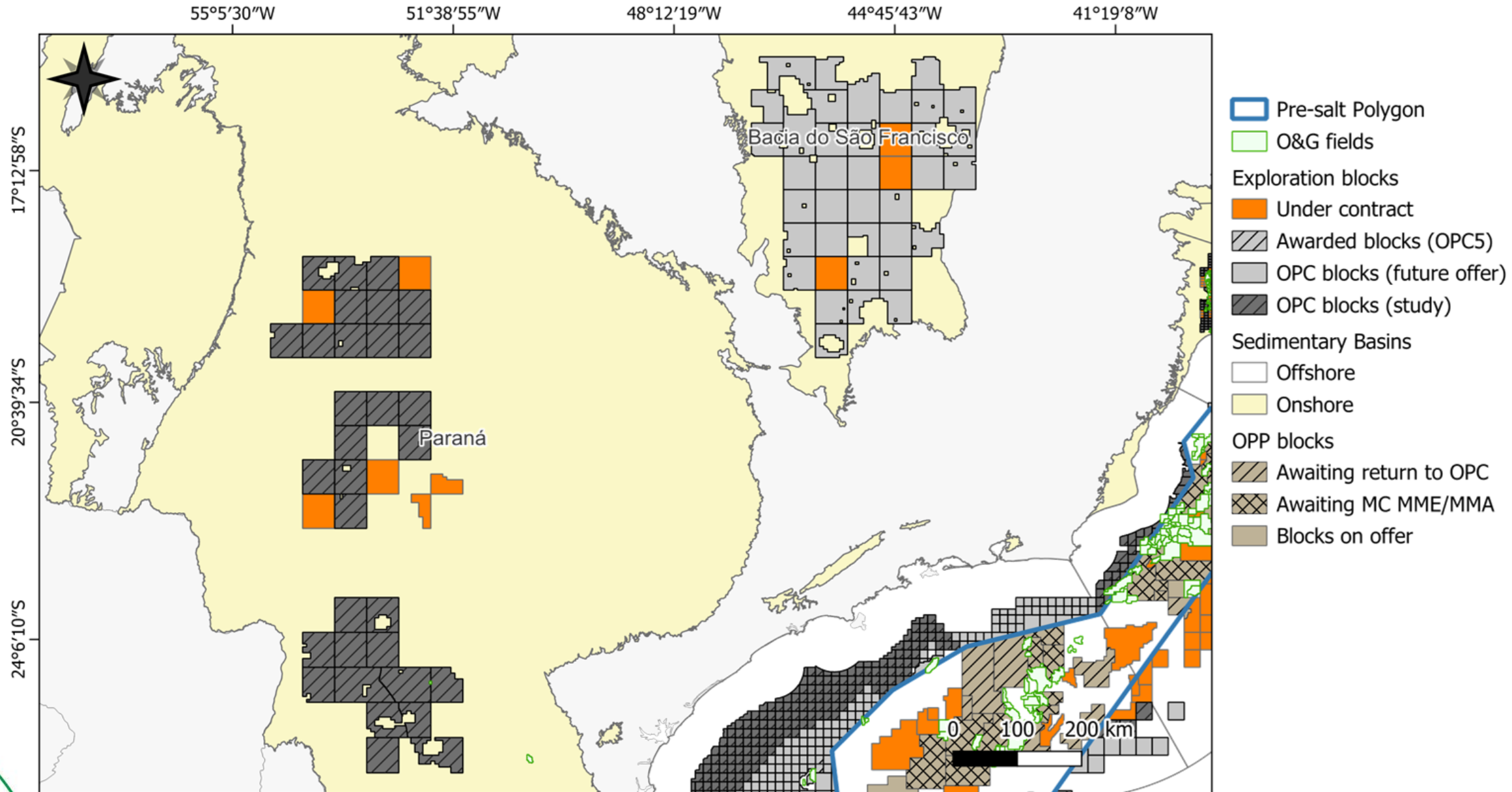
Open Acreage under the Concession Regime – Onshore Basins



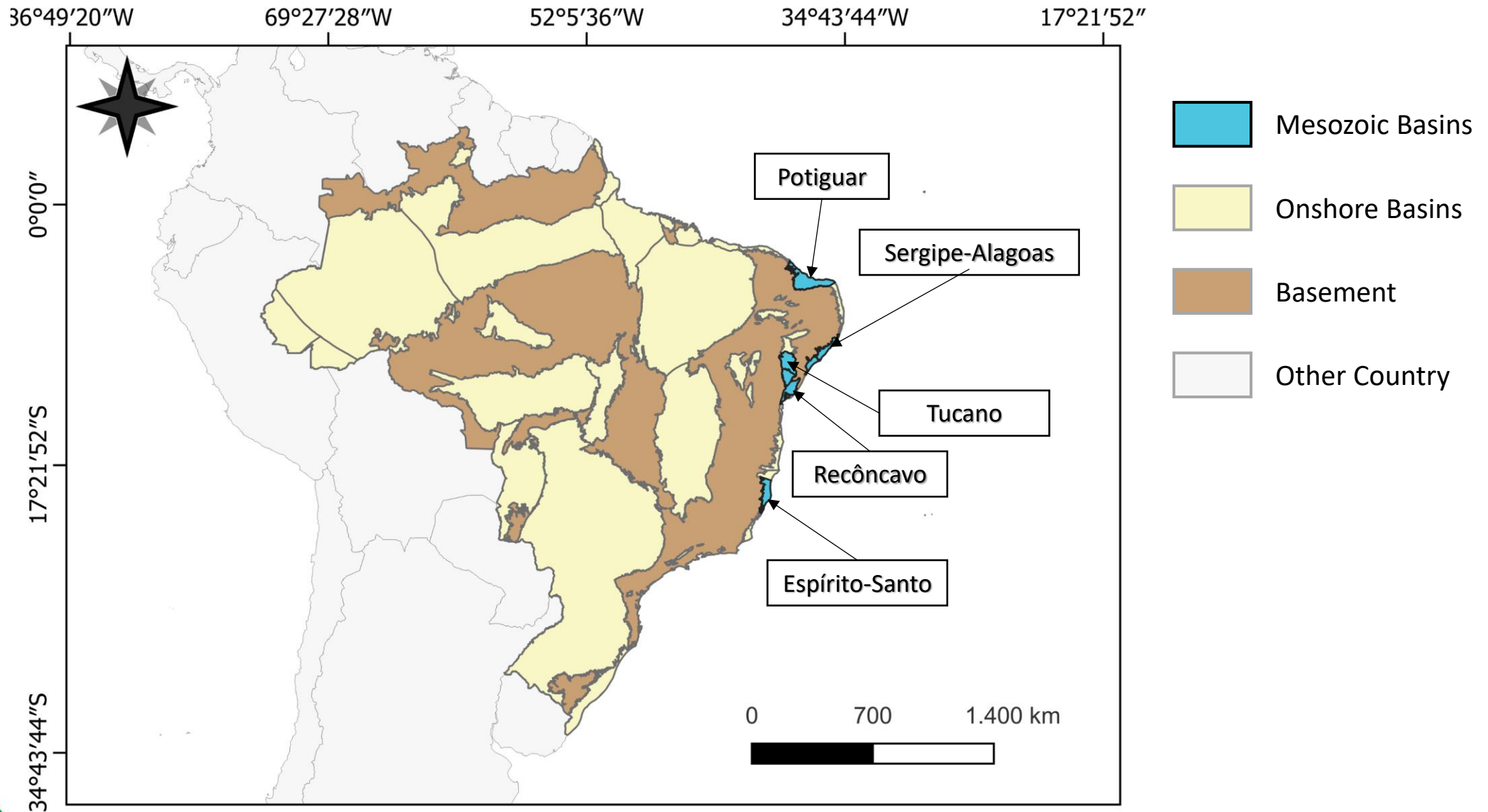
Open Acreage under the Concession Regime – Onshore Basins



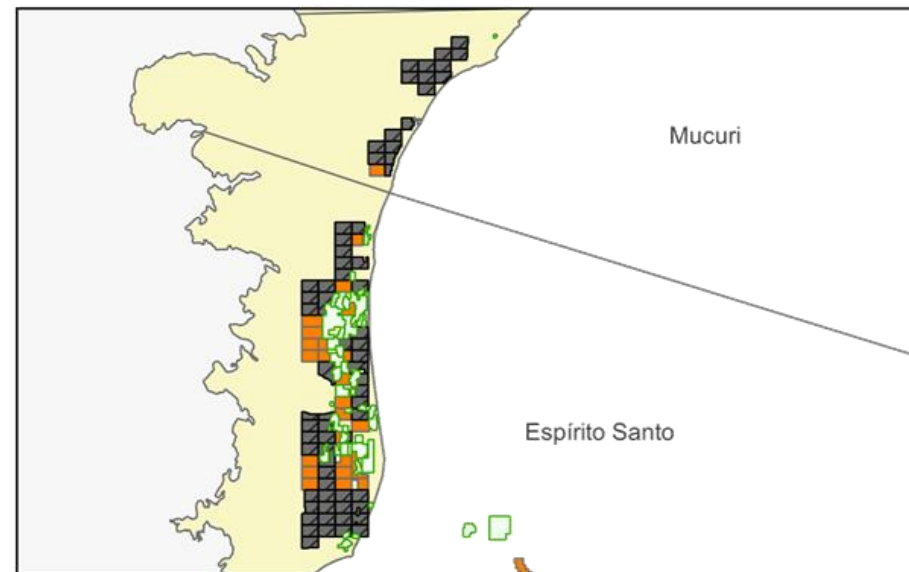
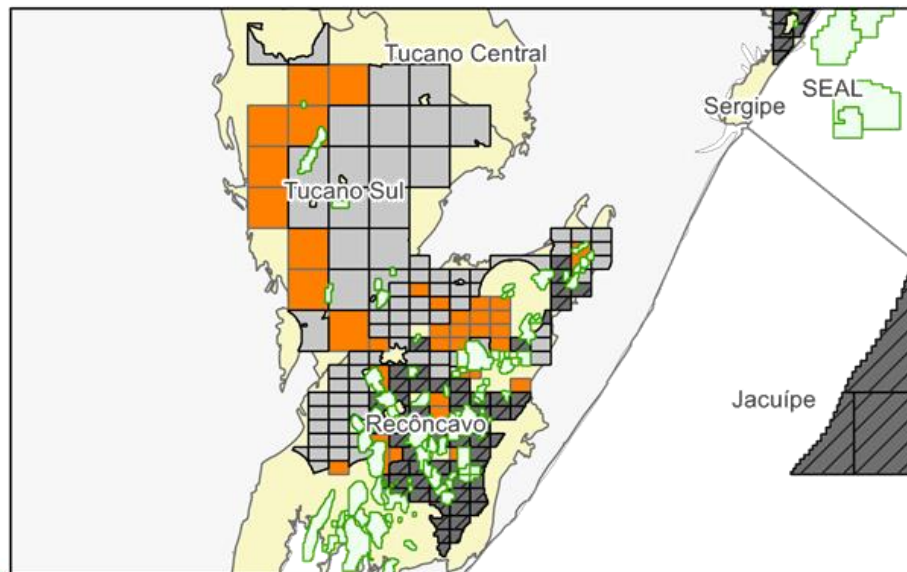
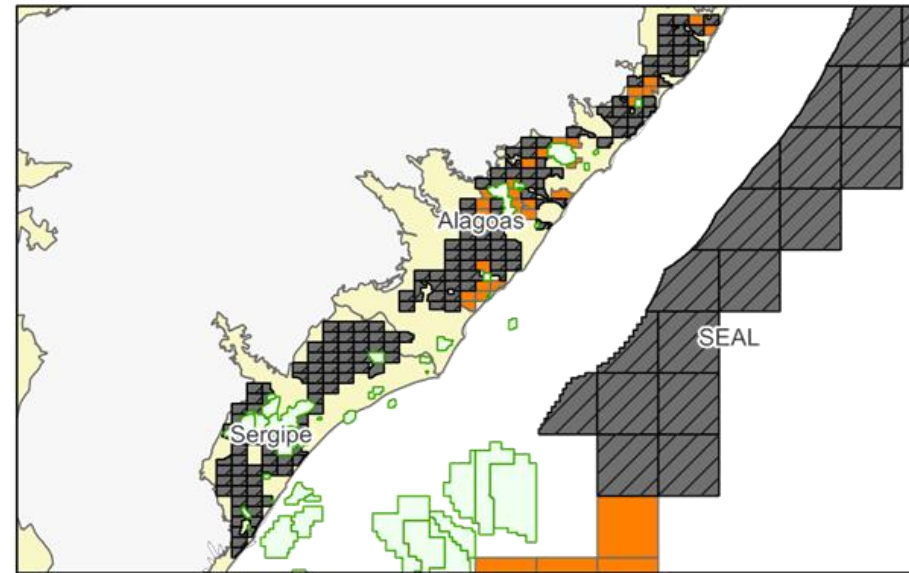
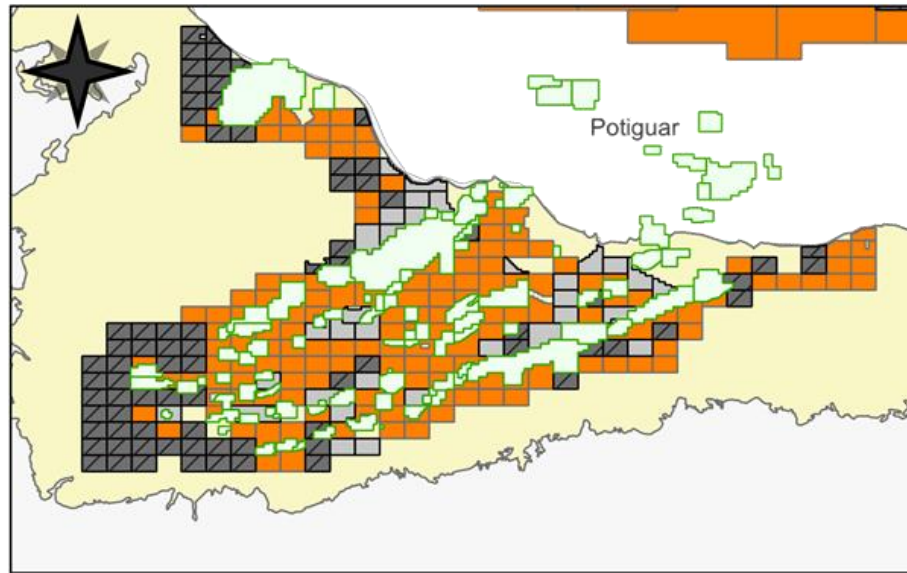
Open Acreage under the Concession Regime – Onshore Basins



Open Acreage under the Concession Regime – Onshore Basins



Open Acreage under the Concession Regime – Onshore Basins



-  O&G fields
- Exploration blocks
-  Under contract
-  OPC blocks (future offer)
-  OPC blocks (study)
- Sedimentary Basins
-  Offshore
-  Onshore

Nomination of Areas

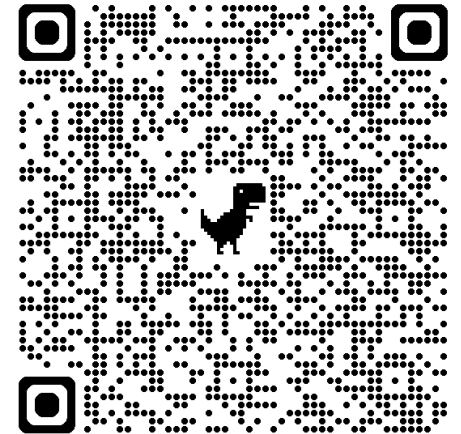
- How to propose new areas for geoeconomic studies?
 - A nomination is a formal indication of an area, submitted by any company in the oil and natural gas industry, requesting that ANP evaluate its potential and consider it for inclusion in a future bidding round.
- This process is governed by ANP Resolution nº 837/2021.
- Visit: <https://www.gov.br/anp/pt-br/rodadas-anp/mais-sobre-rodadas/nominacao-areas>



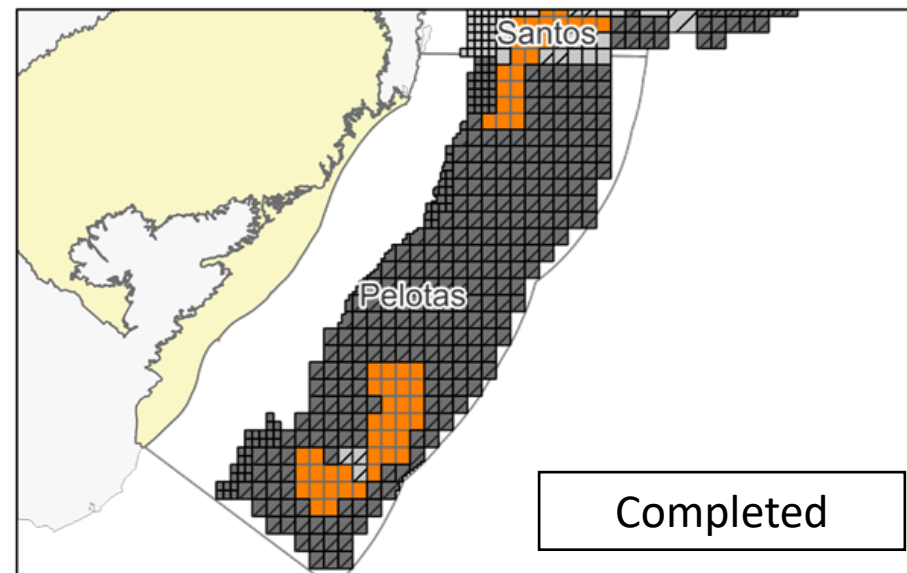
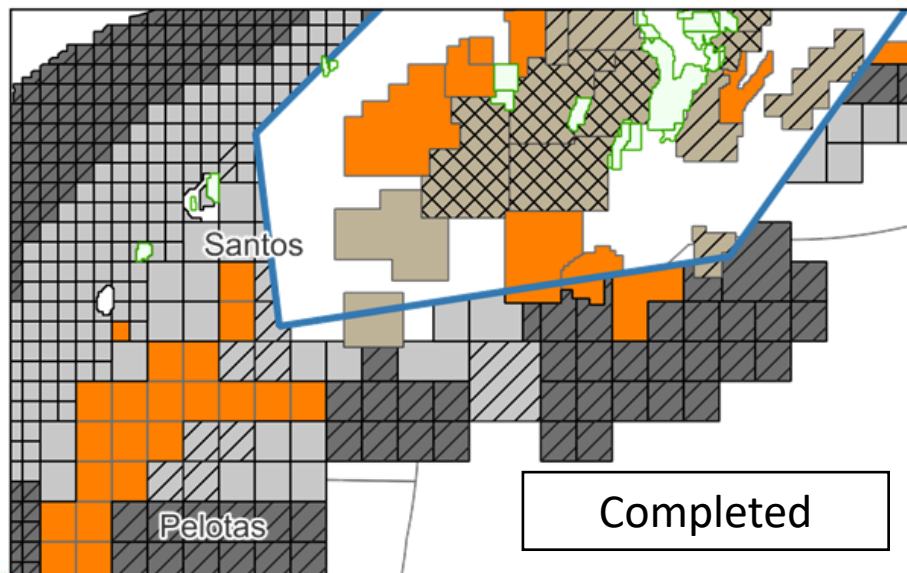
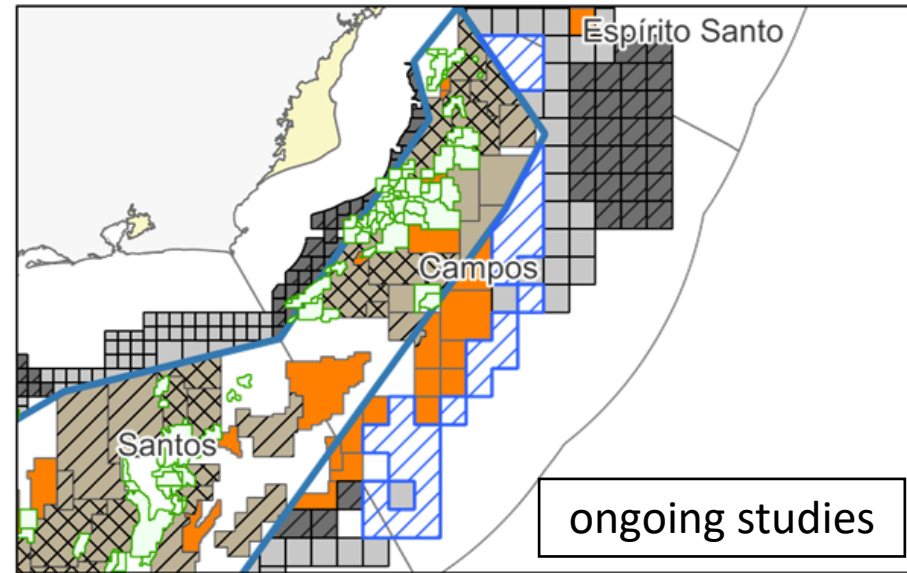
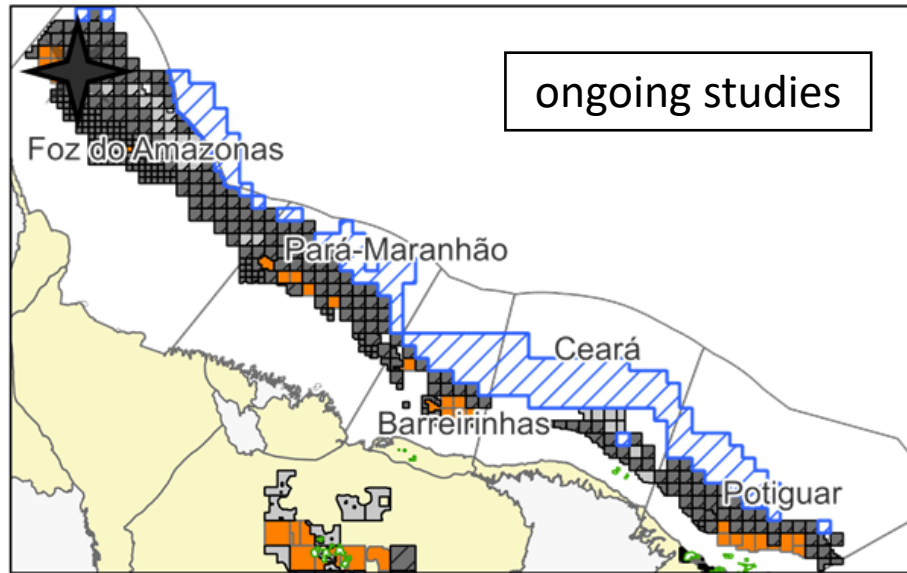
Strategic Calendar of Geological and Economic Assessments

- The Strategic Calendar of Geological and Economic Assessments outlines the areas identified by ANP for geological and economic studies aimed at supporting the inclusion of new areas in future bidding rounds.
- It is prepared and published every four years, based on ANP's Strategic Map, a document that defines the Agency's planning guidelines and priority areas for assessment.

Scan me



Strategic Calendar of Geological and Economic Assessments

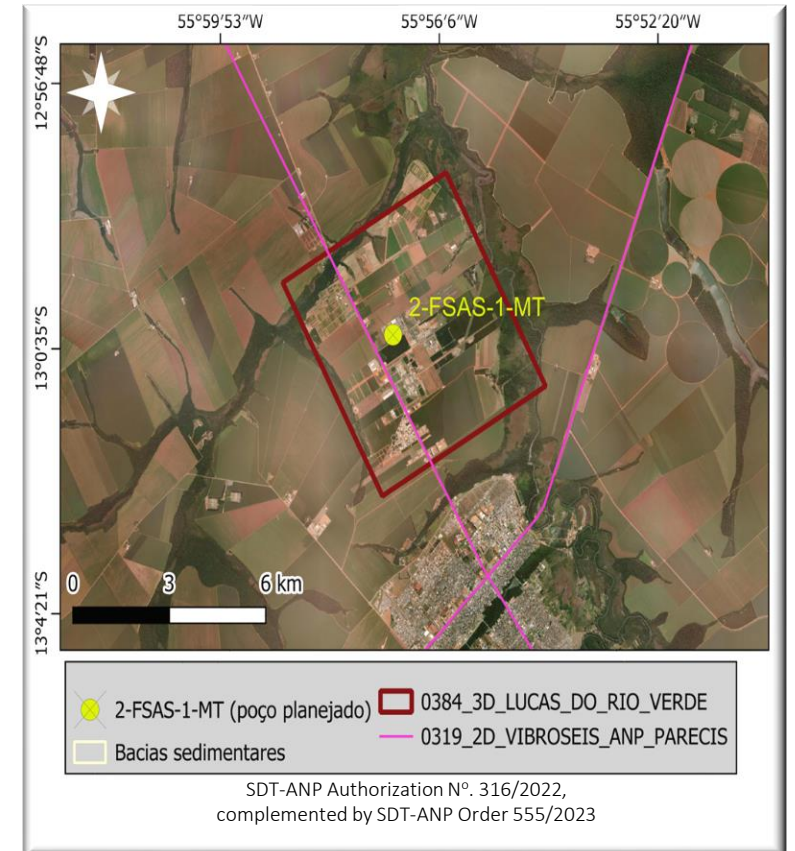
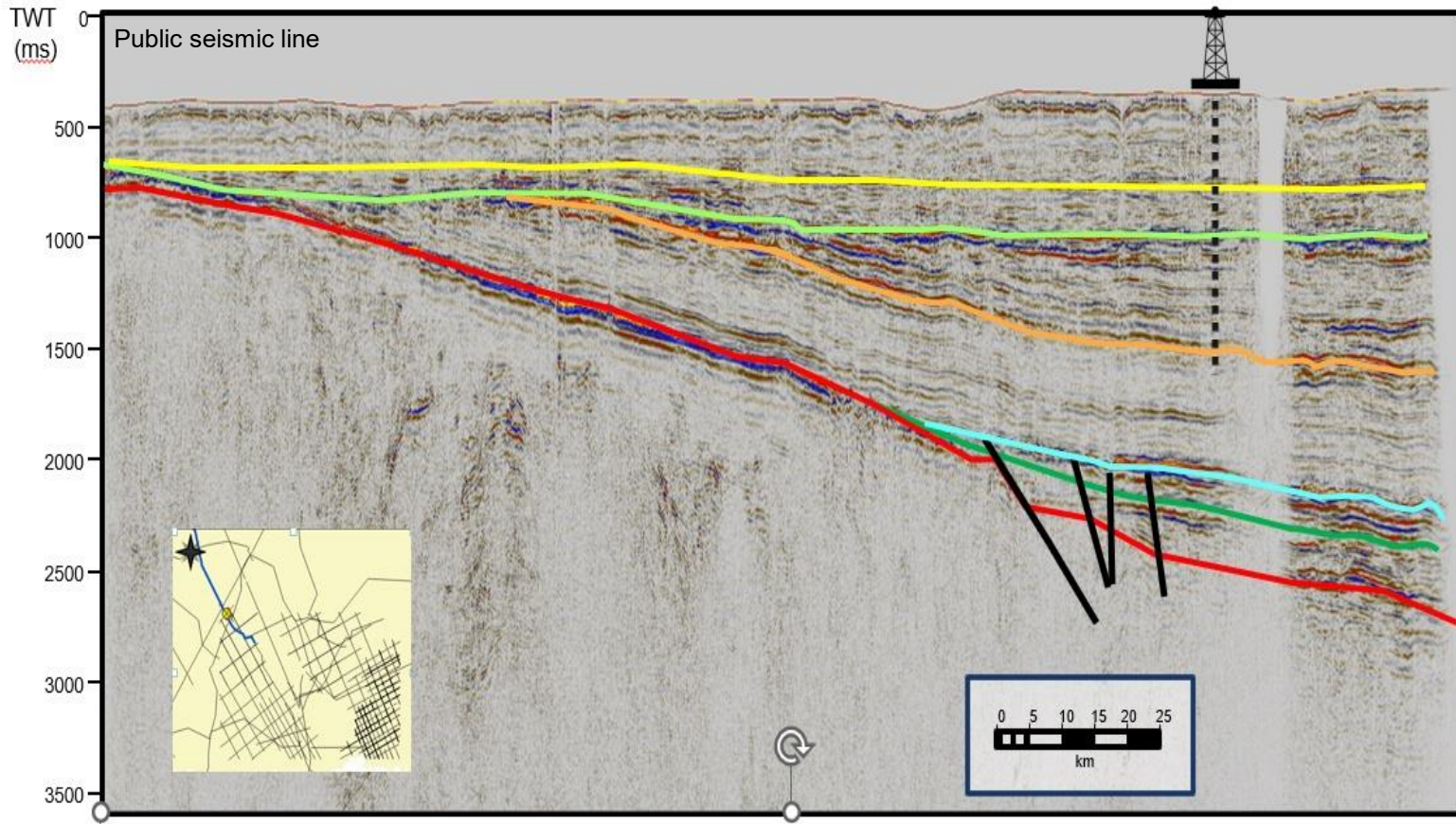


-  Pre-salt Polygon
-  O&G fields
- Exploration blocks
 -  Under contract
 -  Awarded blocks (OPC5)
 -  OPC blocks (future offer)
 -  OPC blocks (study)
 -  Strategic Calendar
- Sedimentary Basins
 -  Offshore
 -  Onshore
- OPP blocks
 -  Awaiting return to OPC
 -  Awaiting MC MME/MMA
 -  Blocks on offer

Carbon, Capture and Underground Storage (CCUS) and Natural Hydrogen

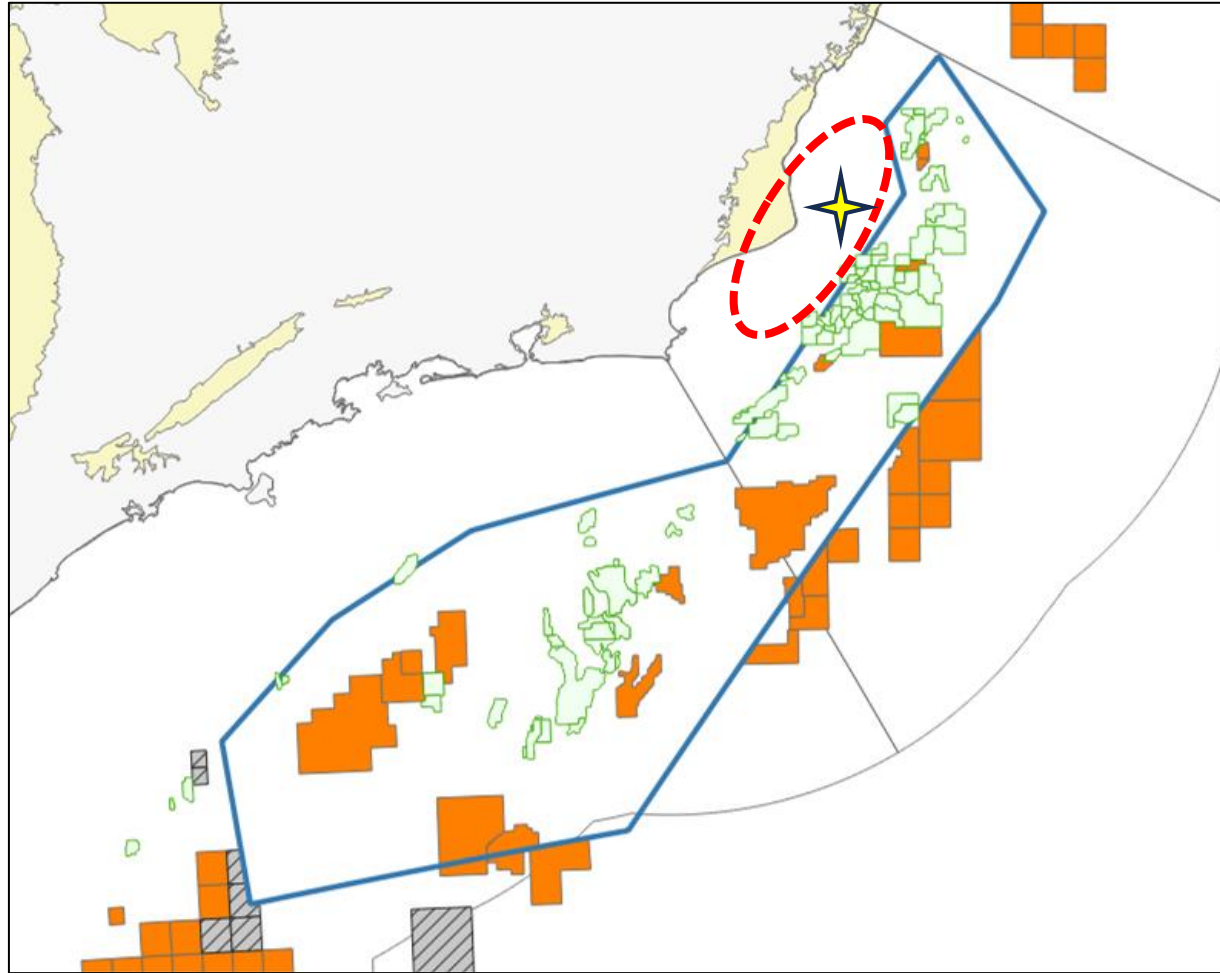
- Gas Law (Law No. 14,134/2021) and Decree No. 10,712/2021: Allow the geological storage of natural gas in suitable geological formations. ANP is responsible for regulating, authorizing, and supervising geological natural gas storage activities in Brazil.
- Hydrogen Law (Law no 14,948 of August 2, 2024): Assigns to ANP the responsibility to regulate, authorize, and supervise the exploration and production of natural hydrogen within the national territory.

BECCS – Parecis Basin Case

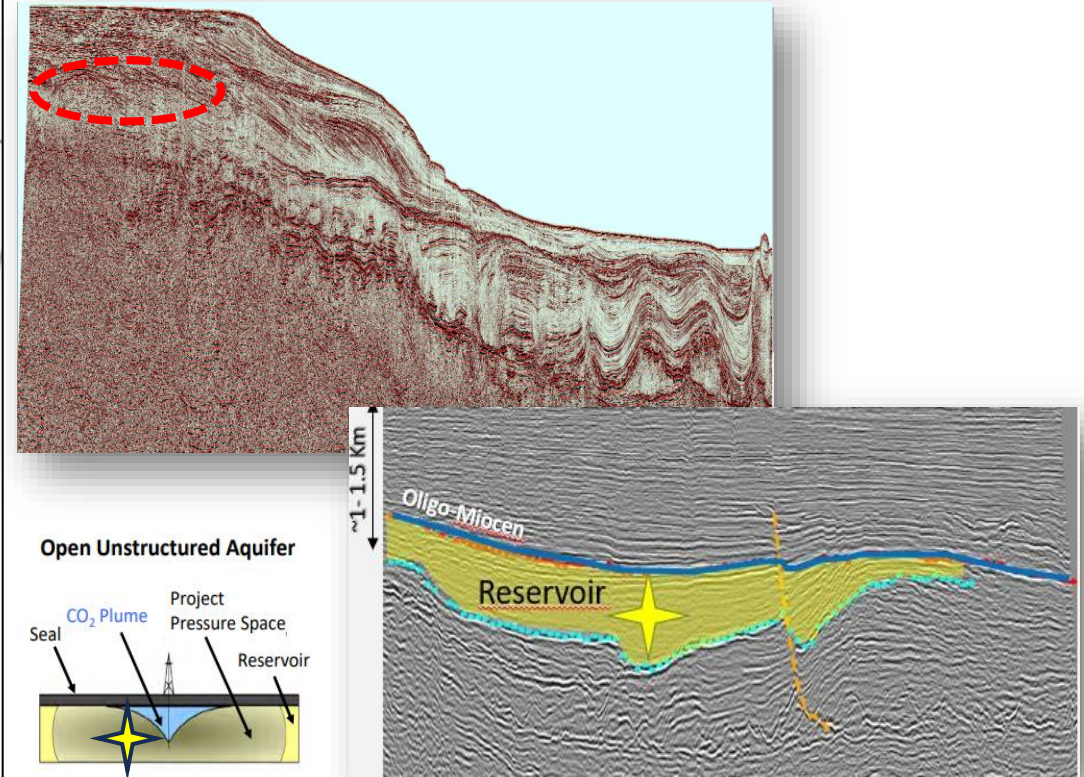


— Diamantino Fm.
 — Sepotuba Fm.
 — Raizama Fm.
 — Nobres Fm.
 — Puga Fm.
 — Basement

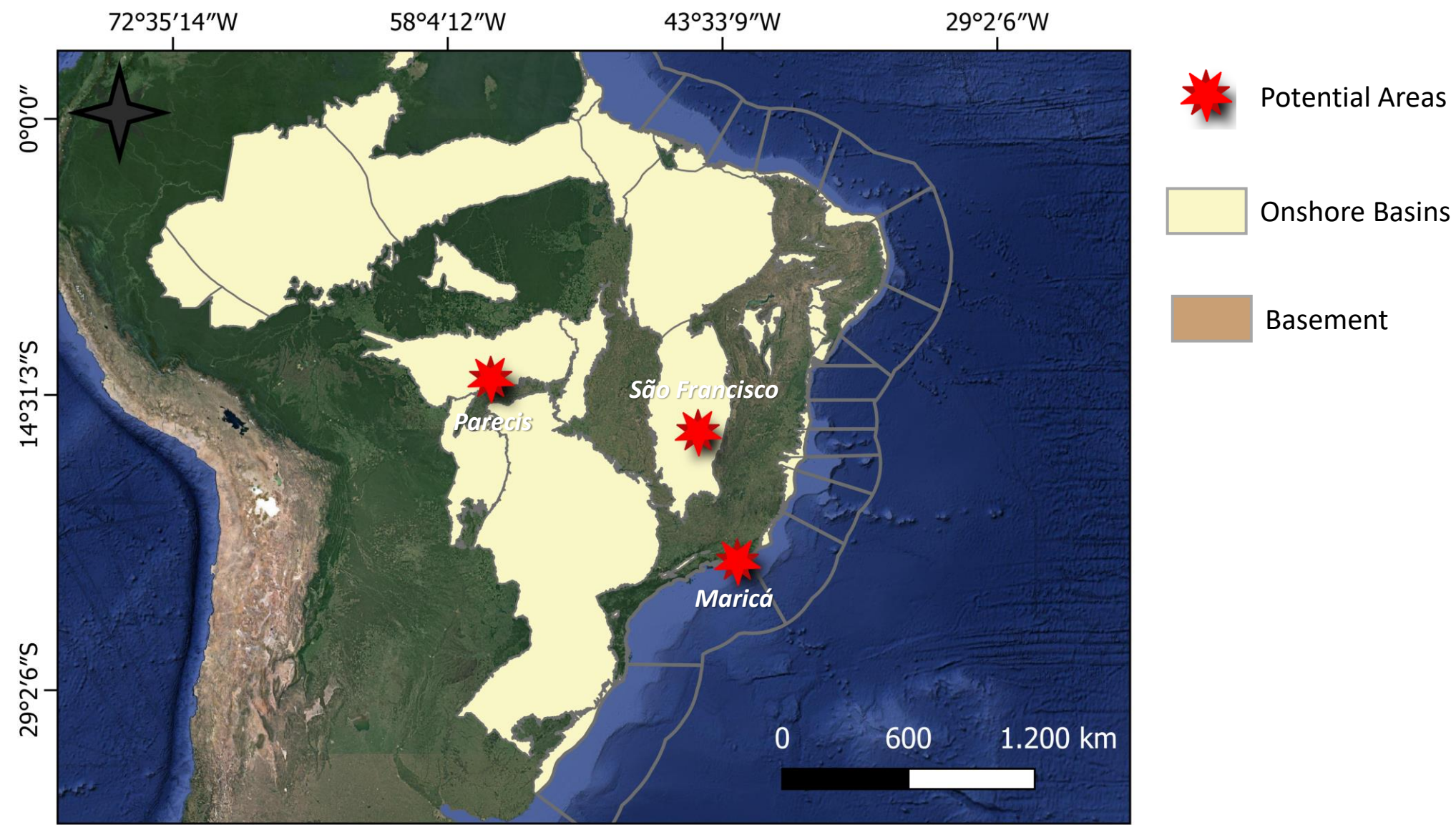
CCUS – São Tomé High Case



Campos Basin (São Tomé Example)



Natural Hydrogen – Potentials areas for Exploration





www.gov.br/anp/pt-br

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<https://www.gov.br/anp/pt-br>