



REVIEW REPORT (A)

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Decision: Revisions Required

The article is rich in data and speaks directly to the objectives of the dossier by articulating the debate on coastal erosion and sea-level rise.

However, the text is somewhat lengthy in relation to the journal's criteria, and there is room for synthesis and improvement of the argumentative structure. The introduction, for instance, is very well developed but could be condensed, as it contains repeated information. In addition, I see no reason for separating Sections 01 and 02 — they could be integrated more cohesively.

Regarding the central argument, the abstract states that the article seeks to “contribute to the debate on the meaning of the beach for contemporary Brazilian society, which we propose to conceptualize as coastal compression, already evident in different regional realities.” After reading the paper, however, it does not seem to me that the discussion on the “meaning of the beach” is the main axis. The central argument appears instead to lie in the comparative study of three contemporary beaches located in different regions of Brazil, with a focus on the beach squeeze process and on the interplay between geomorphological and social dimensions.

To strengthen the argument and analytical clarity, I suggest that the authors more systematically articulate the criteria guiding the selection and presentation of the case studies. These criteria already appear implicitly, but they could be listed explicitly in the text, for example:

Geomorphological dimension: beach location, extent analyzed, soil formation, etc.

Historical dimension: brief history of settlement and key moments of transformation.

Vulnerability to erosion and sea-level rise.

Vulnerability to population growth and urbanization processes.

Identified environmental impacts.

Coastal management policies and instruments.

These six dimensions structure the empirical content of the article but are not yet presented in an organized manner. Making them explicit would help reinforce analytical coherence and facilitate comparative reading.

Table 01 is highly informative and adequately summarizes the case-study data. Figure 10, however, could be reconsidered: its analytical value seems limited, as it is not organized by case study and mixes dimensions that, according to the article's own proposal, should be compared separately. An alternative would be to replace it with a visual summary that highlights

similarities and differences between the cases.

In the conclusion, I suggest that the authors emphasize precisely these comparisons:

Dimension 1 – Geomorphological: What similarities and differences exist among the three cases? What can be learned about beach squeeze (e.g., whether all beaches are sandy and strongly wave-influenced; whether they depend on dunes for stability, etc.)?

Dimension 2 – Historical: Are gentrification and urbanization processes simultaneous? Can the Rio de Janeiro case be interpreted as a “possible future” for the others?

Dimension 3 – Erosion: Which patterns are similar and which are unique?

Dimension 4 – Population growth: How has the local population evolved (based, for example, on the 2010 and 2022 Censuses)? Who has left and who has arrived?

Dimension 5 – Environmental impacts: Are they convergent or specific?

Dimension 6 – Management policies: Are there convergences or common gaps in local policies?

Based on these dimensions, the conclusion could move toward conceptualizing the beach as a space of beach squeeze in a broad sense, highlighting coastal compression processes driven by private and tourism interests that intensified in the post-pandemic period — such as the construction of hotels in Barra da Tijuca, megaprojects in Paraná, and housing developments in Barra dos Coqueiros. Although the article examines only three case studies, they are representative of trends observed in various regions of the country.

Finally, I understand that the article’s main contribution lies in its invitation to articulate morphological analysis with the social aspects of coastal occupation — a field in which sociology can offer important theoretical and analytical insights.