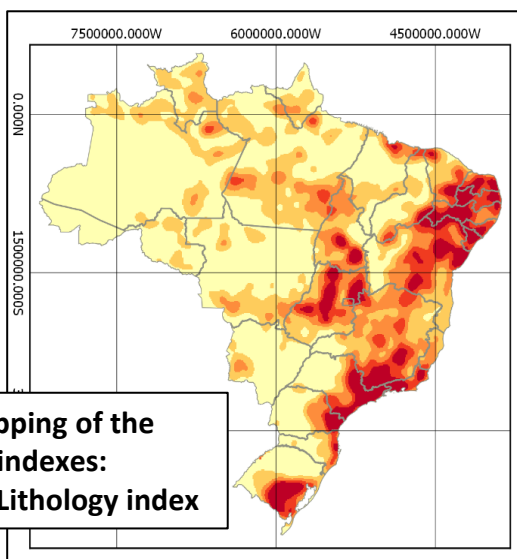


# The geodiversity of Brazil: quantification, distribution, and implications for Conservation Areas

A spatial analysis was carried out between the **Geodiversity Index Map** and the **Brazilian conservation units**. Besides the Conservation Units present majority low and very low indexes, the higher indexes were found in **Natural Monuments** and **Wildlife Refuges**, highlighting the scenic and functional values of Geodiversity.



**Descriptive and genetic perspective**, aiming to explain the causes of the distribution of the abiotic elements in the Brazilian territory

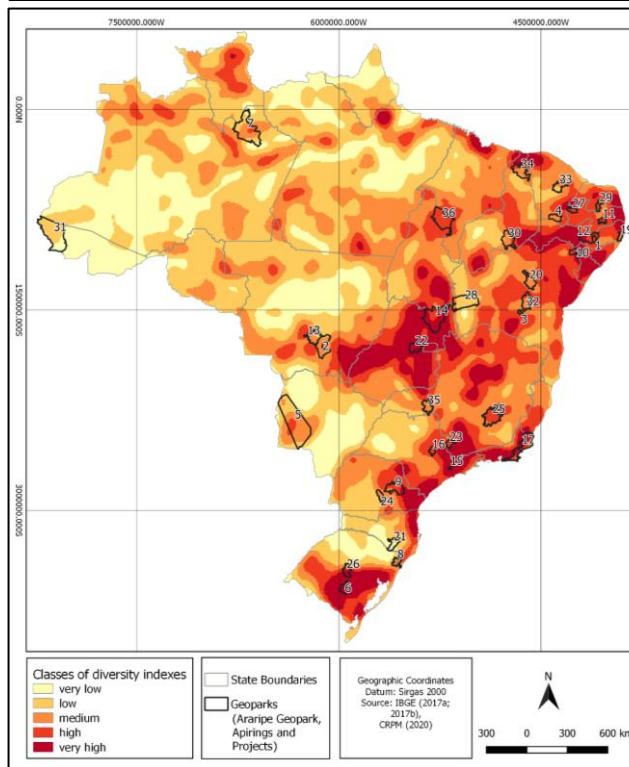


**Mapping of the subindexes:**  
ex. Lithology index

**Table 2.** Area of UCs of Integral protection and sustainable use by unit category and class of geodiversity.

Classes	INTEGRAL PROTECTION					SUSTAINABLE USE					
	Park	Natural monument	Biological Reserve	Wildlife refuge	Ecological Station	Forest	APA <sup>1</sup>	ARIE	RDS <sup>2</sup>	RPPN <sup>3</sup>	RESEX <sup>4</sup>
Very high	3	38	2	43	1	0	16	25	0	12	1
High	10	38	3	8	3	1	18	7	2	13	2
Medium	24	23	43	12	20	16	35	26	22	25	9
Low	41	1	40	37	43	54	28	37	37	24	51
Very low	22	0	12	0	33	28	4	5	38	26	38
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

<sup>1</sup>Environmental Protection Area; <sup>2</sup>Sustainable Development Reserve; <sup>3</sup> Natural Heritage Reserve; <sup>4</sup>Extractive Reserve



**35 geoparks** (1 UNESCO Global Geopark, 4 Aspirings and 30 projects), related to the predominant **Geodiversity Index**:

- Very high: 7**
- High: 11**
- Medium: 14**
- Low: 2**
- Very low: 1**

**Brazilian Authors:** Juliana de Paula Silva; Grace Bungenstab Alves; Jurandyr Luciano Sanches Ross; Fábio Soares de Oliveira; Marcos Antonio Leite do Nascimento; Mateus Grochoski Felini; Fernando César Manosso  
**Portuguese author:** Diamantino Manuel Ínsua Pereira