Autogestão do voluntariado conscienciológico: Relatório de 2025

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Resumo

This is a draft of template document to be used for conscienciology publications. It’s in alpha stage.

## 1 Introdução

Fonte: [Caderno de Artigo](https://edusantana.github.io/manuscript-template-rstudio-conscienciologia/index.qmd.html)

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| Figura 1: Timeline of recent earthquakes on La Palma |

Fonte: [Caderno de Artigo](https://edusantana.github.io/manuscript-template-rstudio-conscienciologia/index.qmd.html)

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Based on data up to and including 1971, eruptions on La Palma happen every 79.8 years on average.

Studies of the magma systems feeding the volcano, such as Marrero et al. (2019), have proposed that there are two main magma reservoirs feeding the Cumbre Vieja volcano; one in the mantle (30-40km depth) which charges and in turn feeds a shallower crustal reservoir (10-20km depth).

Eight eruptions have been recorded since the late 1400s ([Figura 1](#fig-timeline)).

Data and methods are discussed in [Seção 2](#sec-data-methods).

Let $x$ denote the number of eruptions in a year. Then, $x$ can be modeled by a Poisson distribution

$$p\left(x\right)=\frac{e^{−λ}λ^{x}}{x!}  \left(1\right)$$

where $λ$ is the rate of eruptions per year. Using [Equação 1](#eq-poisson), the probability of an eruption in the next $t$ years can be calculated.

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| Tabela 1: Recent historic eruptions on La Palma

| Name | Year |
| --- | --- |
| Current | 2021 |
| Teneguía | 1971 |
| Nambroque | 1949 |
| El Charco | 1712 |
| Volcán San Antonio | 1677 |
| Volcán San Martin | 1646 |
| Tajuya near El Paso | 1585 |
| Montaña Quemada | 1492 |

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[Tabela 1](#tbl-history) summarises the eruptions recorded since the colonization of the islands by Europeans in the late 1400s.

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| Figura 2: Map of La Palma |

La Palma is one of the west most islands in the Volcanic Archipelago of the Canary Islands ([Figura 2](#fig-map)).

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| Figura 3: Locations of earthquakes on La Palma since 2017 |

Fonte: [Explore Earthquakes](https://edusantana.github.io/manuscript-template-rstudio-conscienciologia/notebooks/explore-earthquakes-preview.html#cell-fig-spatial-plot)

[Figura 3](#fig-spatial-plot) shows the location of recent Earthquakes on La Palma.

## 2 Data & Methods

## 3 Conclusion

## References

Marrero, José, Alicia García, Manuel Berrocoso, Ángeles Llinares, Antonio Rodríguez-Losada, e R. Ortiz. 2019. “Strategies for the development of volcanic hazard maps in monogenetic volcanic fields: the example of La Palma (Canary Islands)”. *Journal of Applied Volcanology* 8 (julho). <https://doi.org/10.1186/s13617-019-0085-5>.