

Some hints on weather impacts

2017

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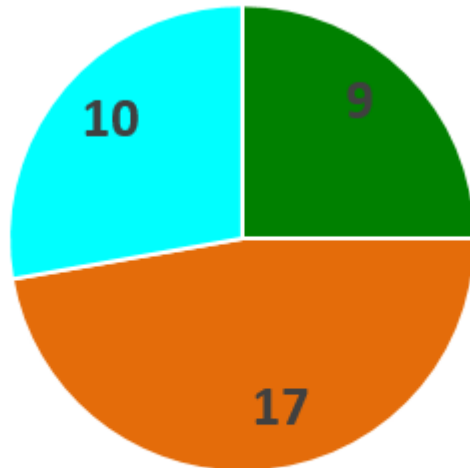
Fernando Carvalho

Using ECMWF's Forecasts 2021

Measures of weather impacts – some results for Portugal

- Requested certificates for named storms
- Requested reports after (not only named) storms
- Economic losses from tropical cyclones

National Meteorological Services naming storms in the SouthWest Group (Oct 2017 to Aug 2020)



■ IPMA ■ AEMET ■ M-F

- **36 named storms** in 3 seasons
- **Maximum of 14** named storms in one season (2019/2020)

Portugal:

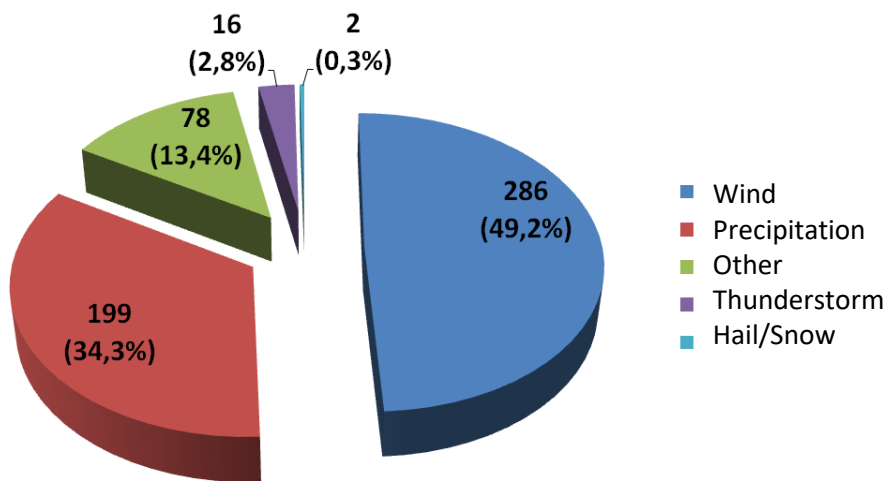
- **Weather warnings were emitted for 2/3 of named storms** (at least yellow warning)

~ **1500** certificate requests **per year**
(for insurances, courts,...)

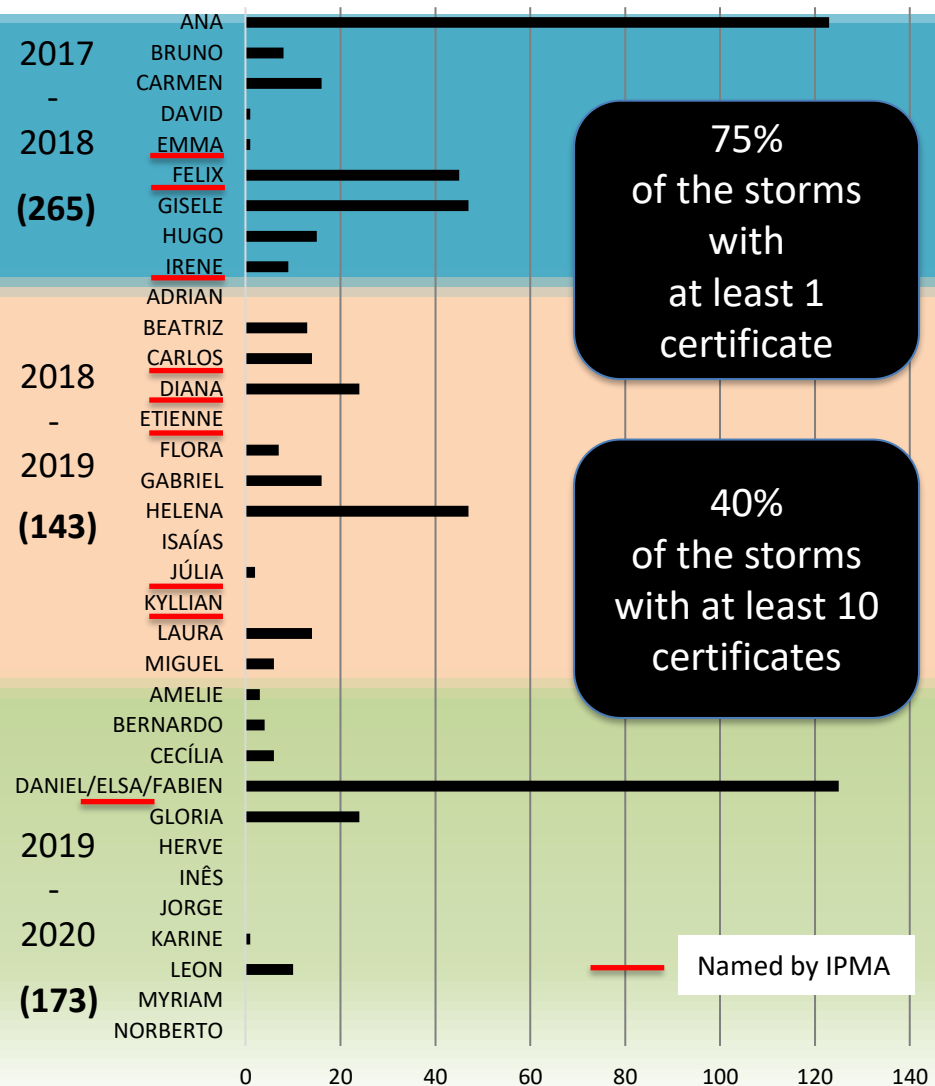
~ **500** emmitted certificates **per year** (1/3)

581 certificates for named storms
in 3 seasons (until July 2020)

Tempestades: 3 épocas de out/2017 a mar/2020



Number of certificates per named storm
(Oct 2017 to Mar 2020)



75% of the storms with at least 1 certificate

40% of the storms with at least 10 certificates

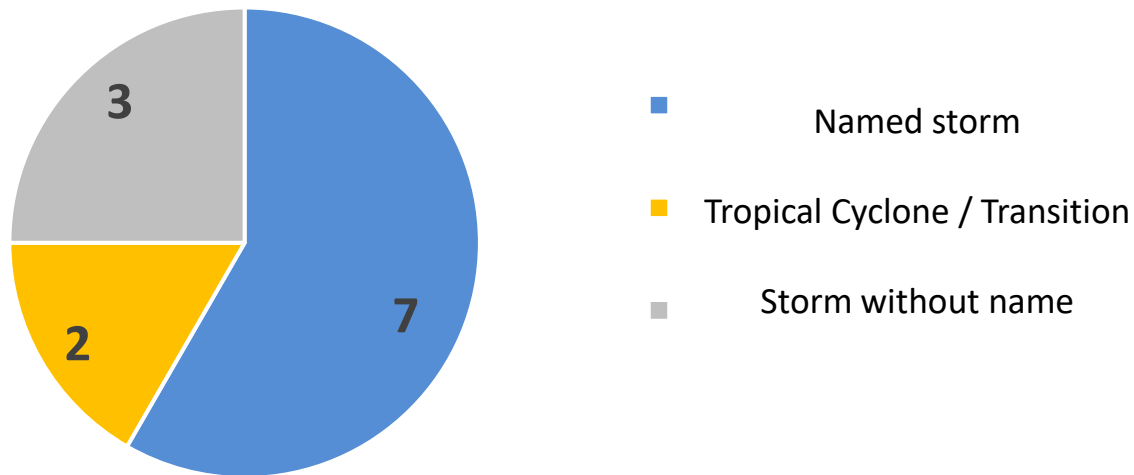
Named by IPMA

Impact measure

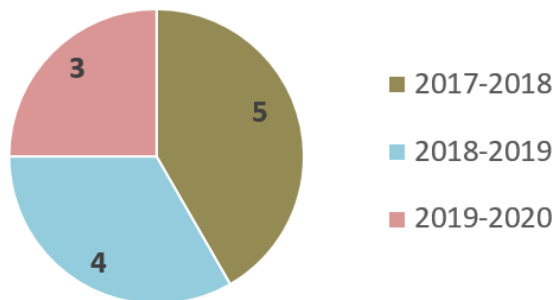
Number of reports requested to IPMA

12 reports in 3 seasons

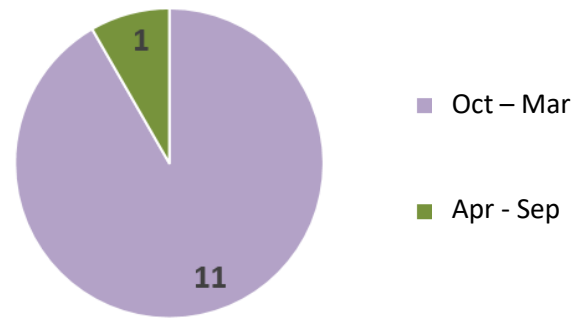
Nature of the storms that originated a report request to IPMA (between Oct 2017 and Mar 2020)



Season (Oct to Sep)



Time of the year (Oct to Sep)



Tropical cyclone economic losses in Portugal

Tropical cyclone	Affected region	Date	Total Economic Losses (million €)
Ex-Hurricane Leslie	Mainland	13-14 OUT 2018	120
Hurricane Lorenzo	Azores west group	02 OCT 2019	330



~50% of a
governmental support measure
(1000 million €)
released in June 2020 for
small and medium-sized enterprises
due to the **COVID-19** pandemic



**Economic Losses of 450 million €
due to 2 storms
in less than 1 year**

Sources:

- <https://zap.aeiou.pt/lorenzo-prejuizos-330-milhoes-euros-285996>
- <https://www.noticiasaminuto.com/pais/1337365/leslie-a-tempestade-que-causou-prejuizos-de-120-milhoes>
- <http://business.turismodeportugal.pt/pt/Gerir/covid-19/Paginas/medidas-de-apoio-economia.aspx>

THANK YOU!