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Obtaining meteorological data from historical newspapers: La Integridad

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The meteorological data recovery from old documentary sources is of huge significance for meteorological and weather research of our planet. In this work we present the meteorological series from the end of XIX century and the beginning of the XX at the A Guarda's Observatory, pioneer in Galicia in this kind of measurements and located in that time at "Colexio Xesuita Apóstol Santiago". The data series was obtained from meteorological notes of the catholic newspaper "La Integridad" published in that dates in Tui(Galicia). It was revised in total for this study more than 1000 newspapers from this publication and it was manually retrieved about 60000 individual measurements.

Recovered variables include temperature, pressure, wind, relative humidity, vapor pressure, evaporation, precipitation and overview weather observations. This enables us to get a general picture of weather for this period of time in the studied region, to validate and to complete others independent data sources and study climate change.

Also we prove the reliability of meteorological forecasts published from time to time in the same journal using sea level pressure fields from historical datasets provided by the MetOffice.