Servei Meteorològic de Catalunya

# A new source of instrumental and phenological data for Catalonia and the Balearics (1894-1908) 

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## Digitization and cataloguing strategy

- 6,448 documents have been digitized: 6,236 (met. observation sheets) +212 (letters)
- ARTYDOC, SMC digital cataloguing tool, have bee used, and... $\mathbf{8 8 \%}$ is already catalogued


## Historical background

- A meteorological and phenological station network was established by the Granja Experimental de Barcelona in 1894.
- In less than three years 60 sites were created observing most of the ECV twice a day: air temperature, air pressure, precipitation, clouds coverage, wind direction and force (qualitative)... and main phenophases
- Extreme years: 1894-1908 (for most of the network)
- Although short-lived, many observatories continued in later decades.
- Original documents were lost during many years, by finally identified and catalogued by the SMC in 2003.


Format of a meteorological observation sheet (1894-1896)

Availability of stations per month


## Already available...

- Daily TX/TN and PPT data have been already manual typed


## What's next...

- Manual typing of remaining variables... phenological data
- Uploading of digitized and catalogued documents to "Digital Memory of Catalonia" portal


## Potentialities

- Unknown meteorological and phenological observations are now available.
- Extension back in time of coverage of already identified stations.
- Valuable metadata information throughout handwritten letters from observers
- Special reports on extreme events (thunderstorms)
- Historical heritage preservation


Special reports on heavy thunderstorms (above) and phenological obs.


