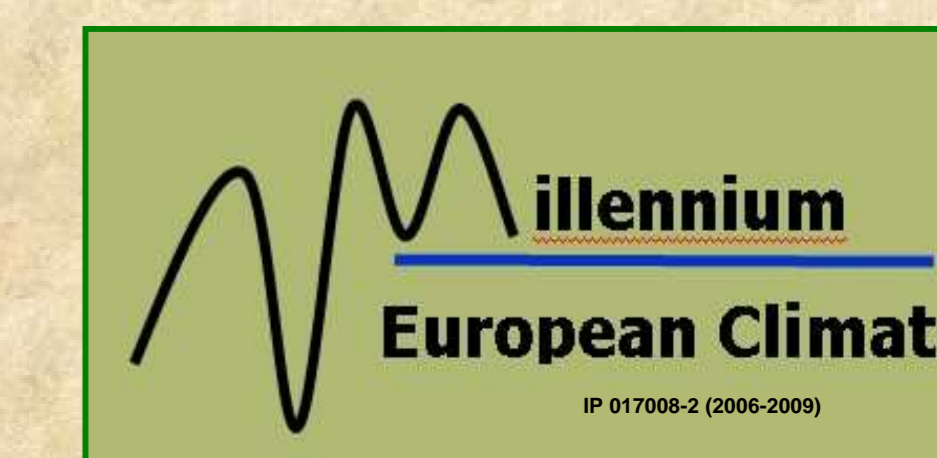


# Extreme Meteorological Events from documentary sources on old Aragon Kingdom, AD 1000-1500.

## First results after a systematic approach to data availability



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### 1. INTRODUCTION

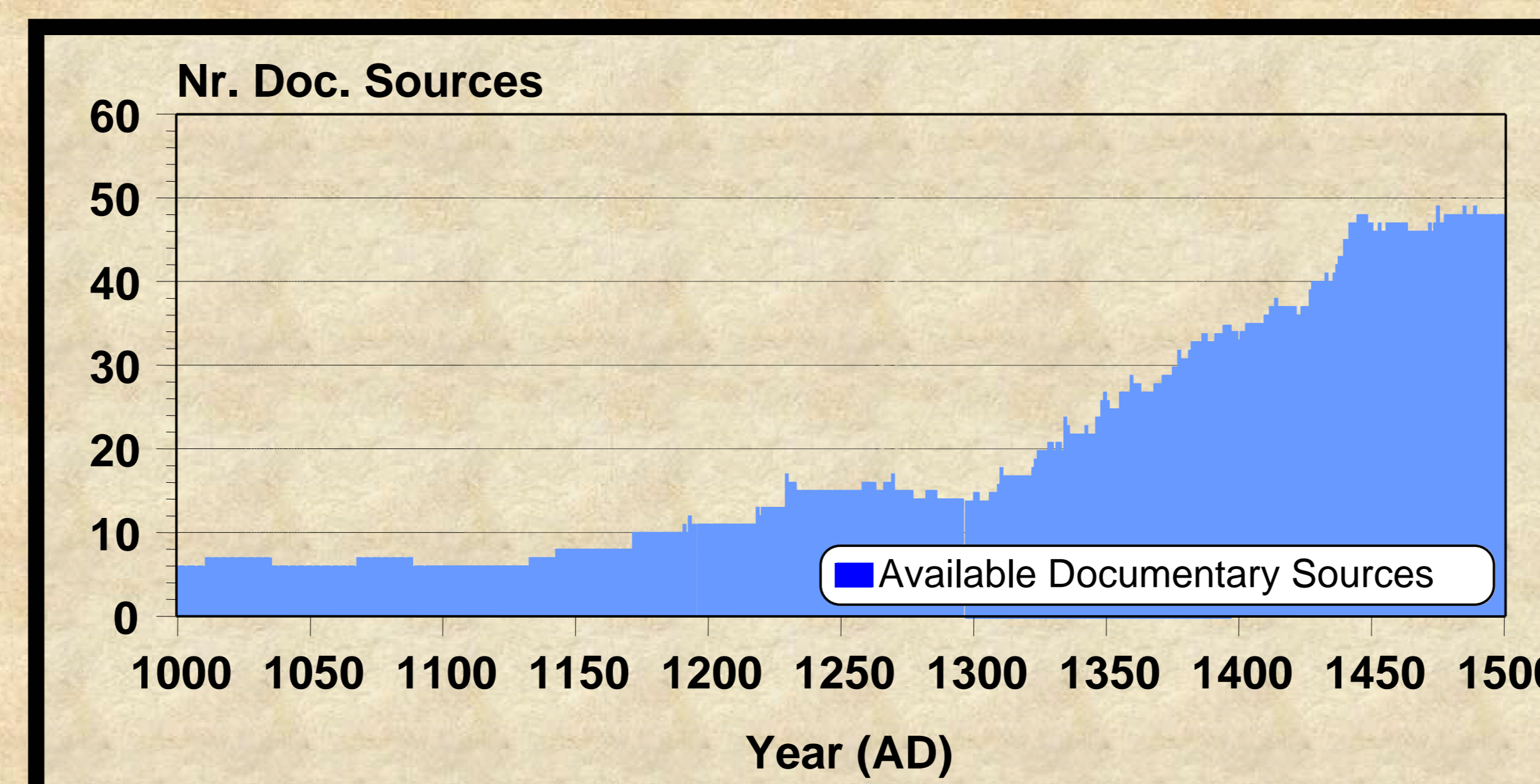
Present work shows a systematic effort on historical documentary sources of Old Aragon Kingdom (actually, spanish regions of Catalonia, Aragon, Valentia and Balearic Islands), collecting extreme weather events for period AD 1000-1500.

### 2. HISTORICAL CONTEXT

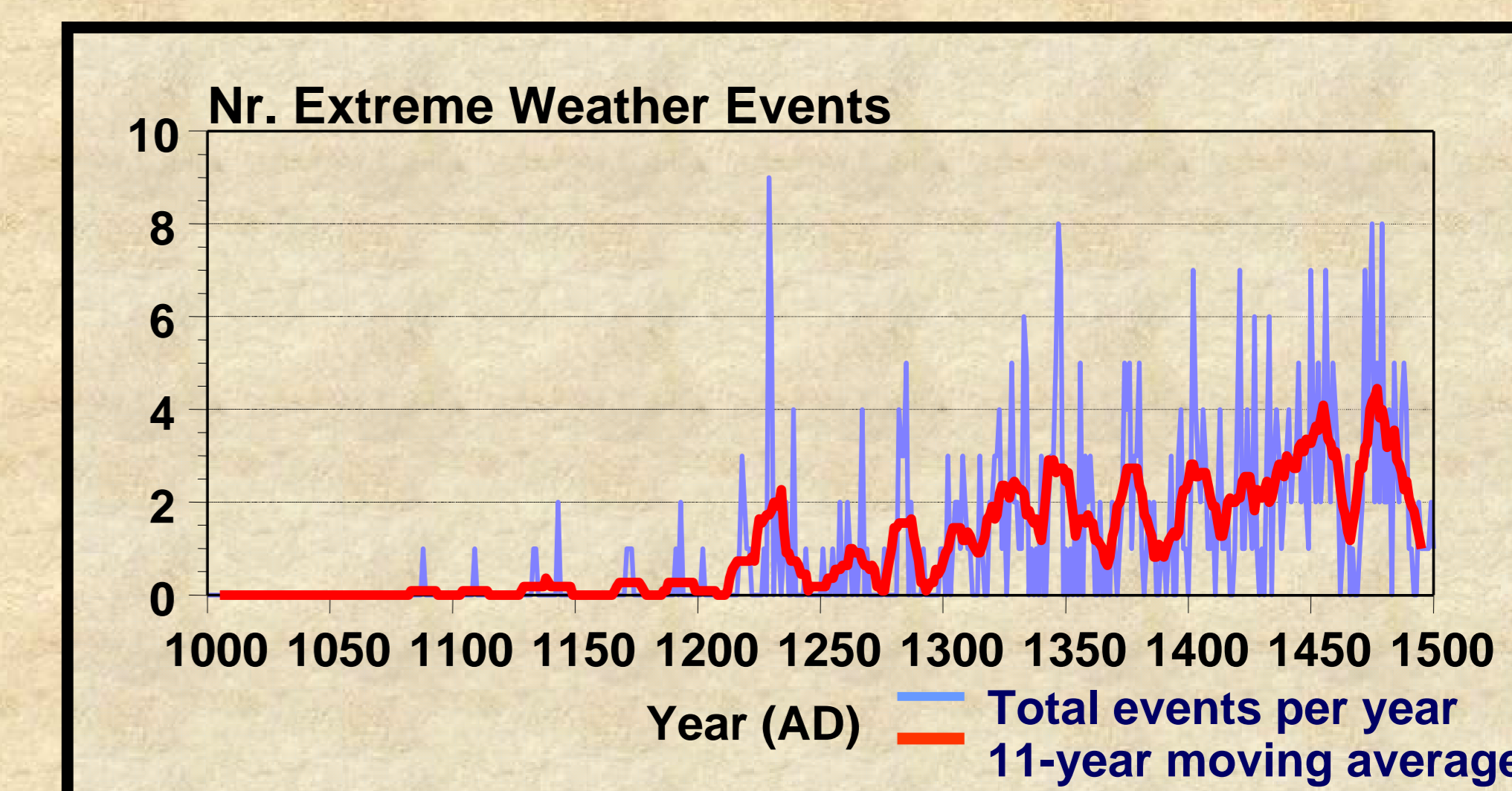


**EVOLUTION OF ARAGON KINGDOM**  
 County of Barcelona, since AD801  
 Kingdom of Aragon, since c.1050  
 Aragon & Catalonia Kingdom, 1164-1714  
 Rousillon & Cerdanya, since c.1200  
 Balearic Islands, since c.1225  
 Valentia, since c.1225  
 Sicily, since c.1250  
 Sardinia, since c.1325  
 Naples, since c.1440

### 4. DOCUMENTARY AVAILABILITY

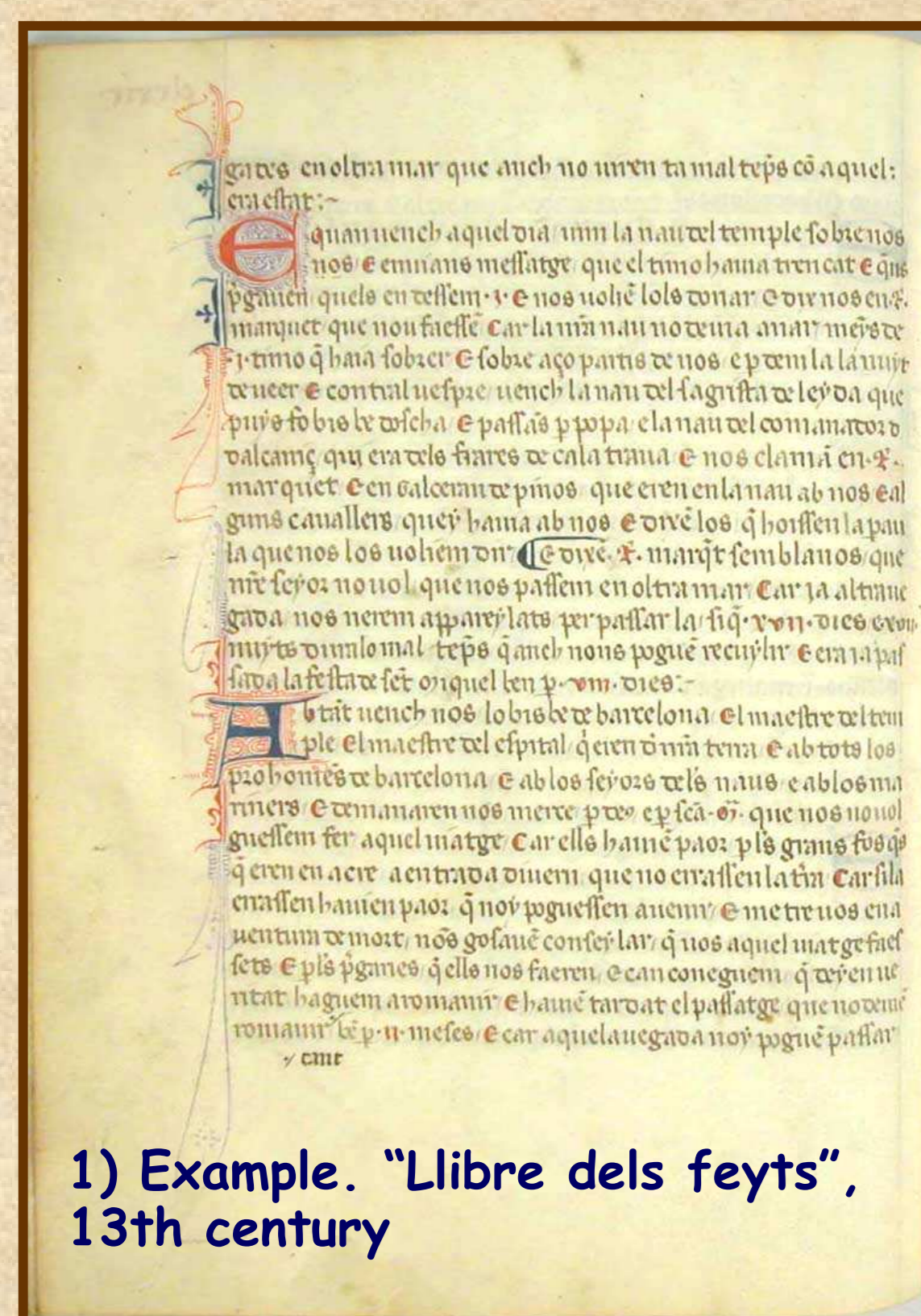


### 6. RESULTS

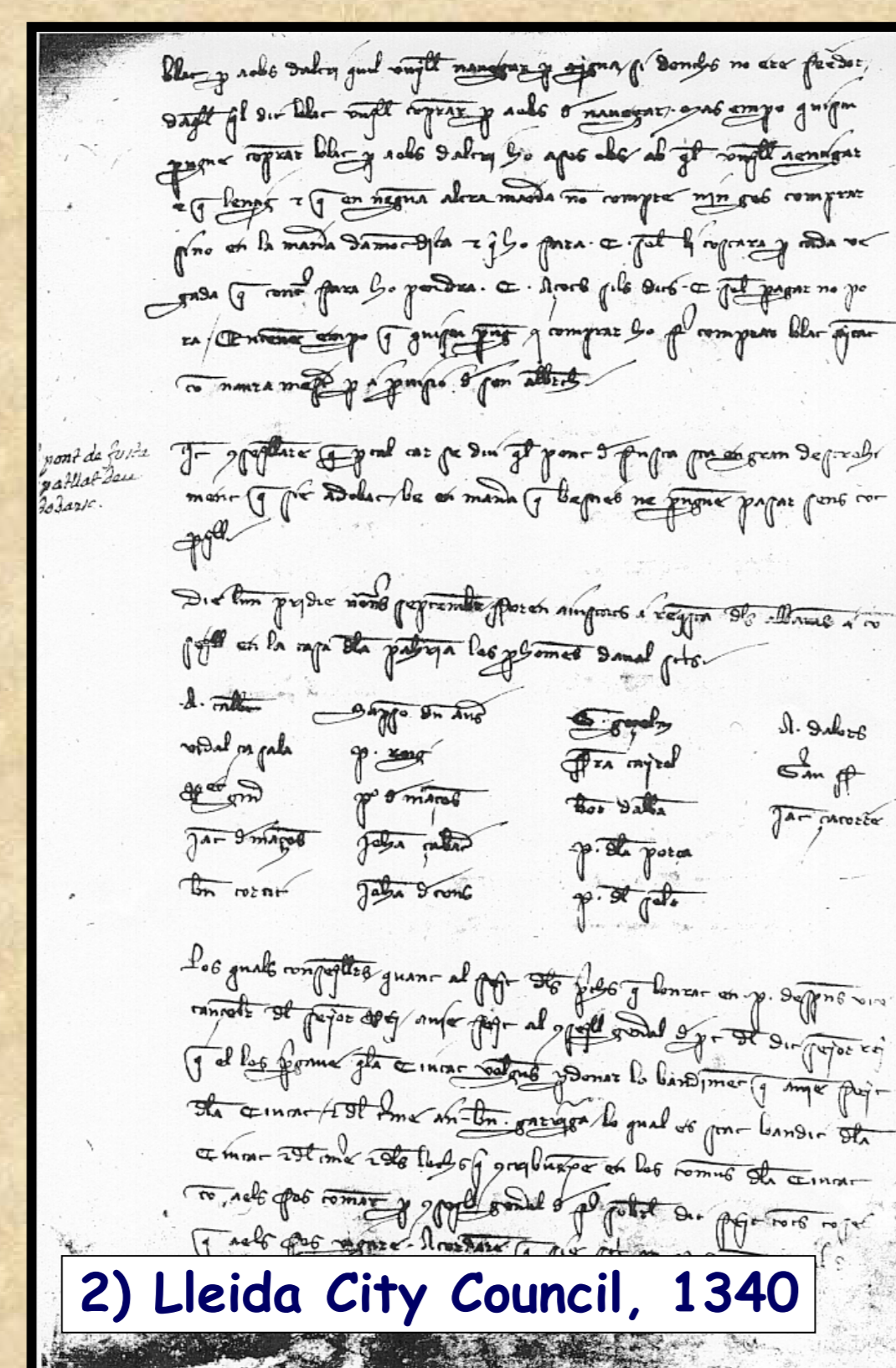


### 3. DOCUMENTARY SOURCES

- 1) Period 800-1300: King's Chronicles and "Books of Memories"
- 2) Period 1300-1500: Urban dietaris and City Council administrative sources



1) Example. "Llibre dels feyts", 13th century



2) Lleida City Council, 1340

### 5. COLLECTED INFORMATION

#### METEOROLOGICAL EVENTS IDENTIFIED AND RECORDED

Flood : 156 ev.  
Drought : 102 ev.

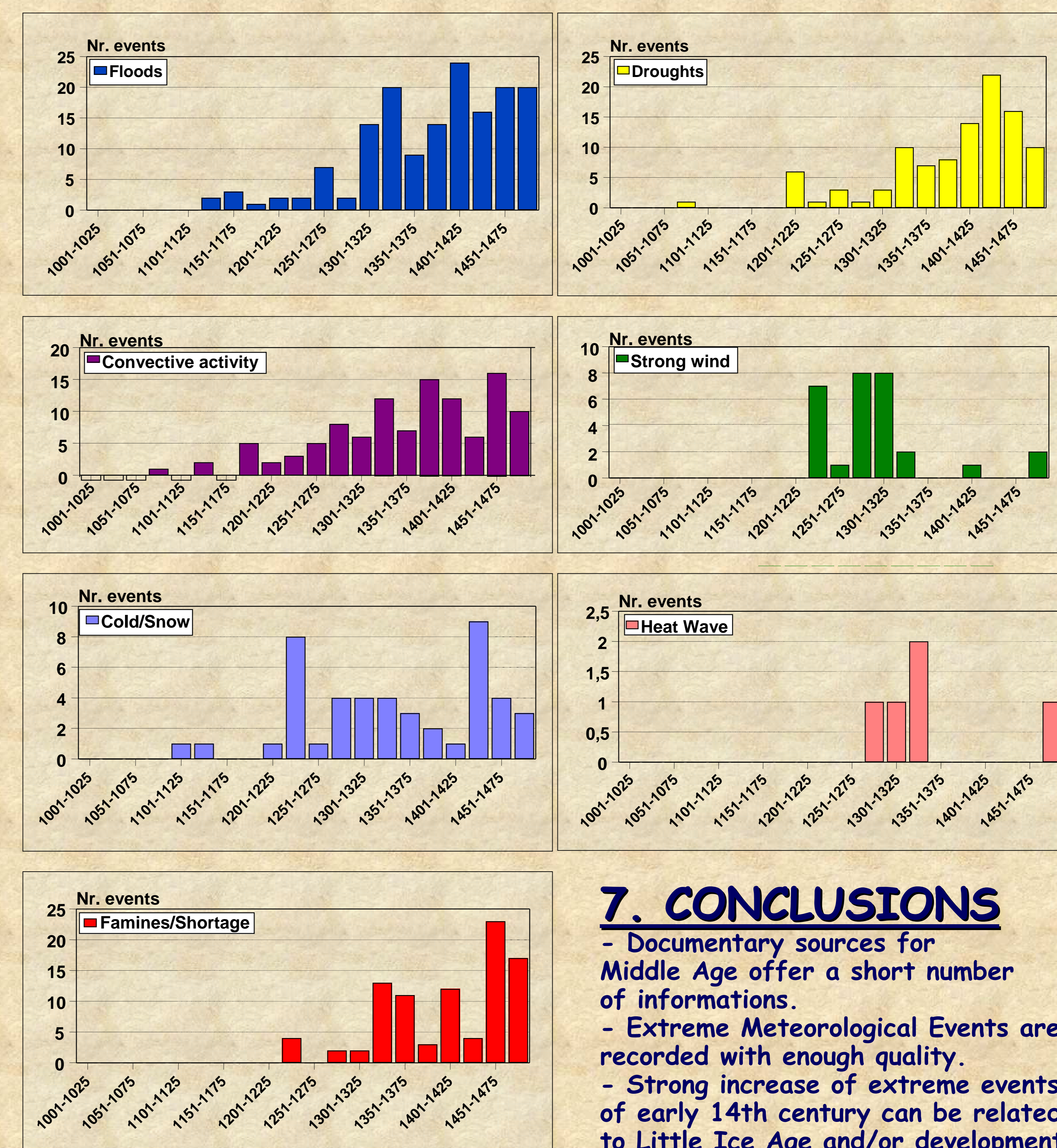
Convective activity : 84 ev.  
(storms, sea-storms)  
Strong Winds : 29 ev.

Snowfall/Cold Weather : 46 ev.  
Heat Wave : 5 ev.

No direct information  
(Famines, shortages) : 91 ev.

**TOTAL : 513 events**

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### 7. CONCLUSIONS

- Documentary sources for Middle Age offer a short number of informations.
- Extreme Meteorological Events are recorded with enough quality.
- Strong increase of extreme events of early 14th century can be related to Little Ice Age and/or development of urban communities.