Meteorological operational services for civil protection in Veneto region (North-Eastern Italy).

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Conclusions

- The analysis highlights the difficulty of an efficient weather forecast for civil defence purposes in a complex situation as ours, where many types of different events are possible.
- Especially cases of rapid convective events with their intense and very localized phenomena are a significant challenge. It is well-known that such events can bring remarkable material damages and serious danger for the people.
- An effective warning system which can handle this type of events is needed, and may feature different procedures and warning methods than for long-lasting precipitation events. The latter are generally more predictable by meteorological models, have slow and more continuous time-spatial evolutions with delayed hydrogeologic and hydraulic impacts (landslides, landslips, floods, etc.). This allows more efficient anticipated warnings, also supported, to some extent, by hydrologic modelling.

Long lasting precipitation event of 26th–30th April 2009

During 26th–30th April 2009 period a long lasting precipitation event occurred on the region, with strong and persistent precipitations especially on pre-alpine zone between 27th and 28th and scattered thunderstorms on the plan between 29th and 30th April.

The synoptic in this season is typically favorable to strong and persistent precipitations in the pre-alpine area; a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to southerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, producing a southerly to south-westerly jet over the central-western pre-alpine area: a cold upper-level low over Western Europe elongates from Great Britain to Spain, produce...