The challenges of Meteorology in the face of extremes events: a study case in Campinas-SP

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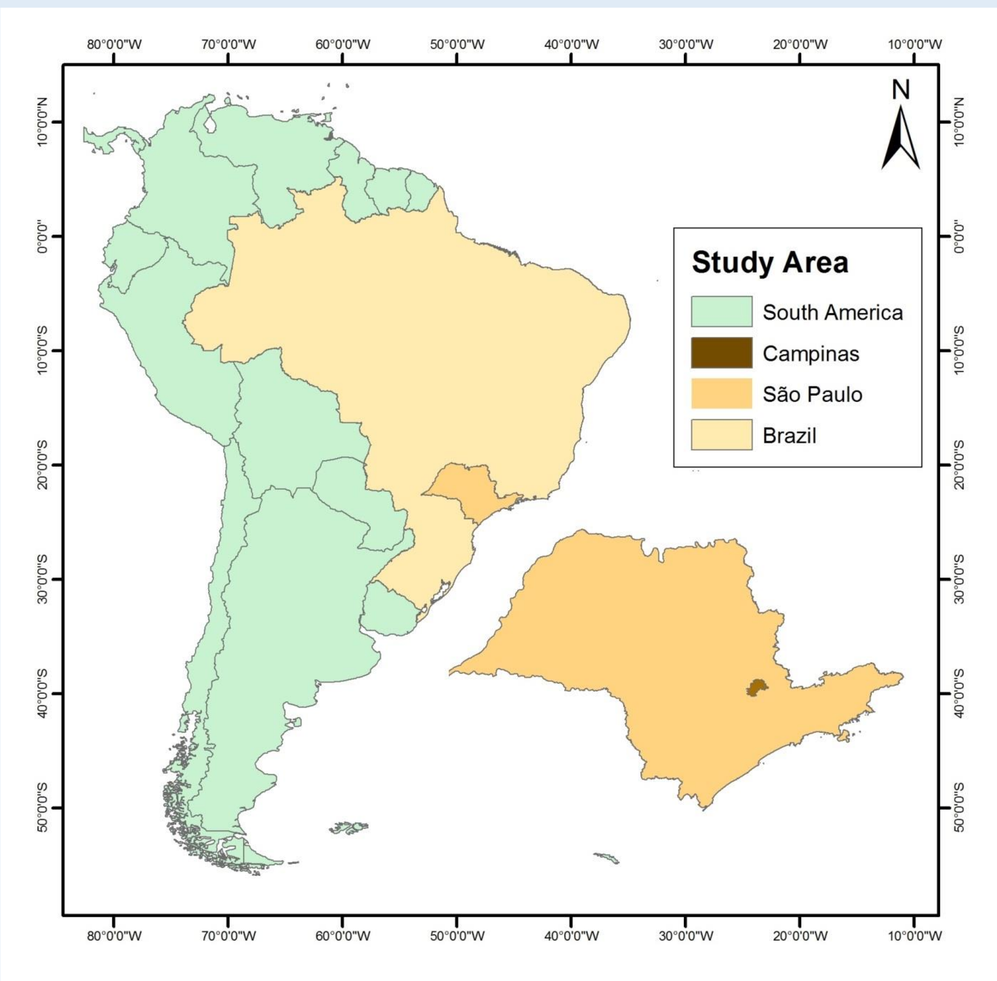
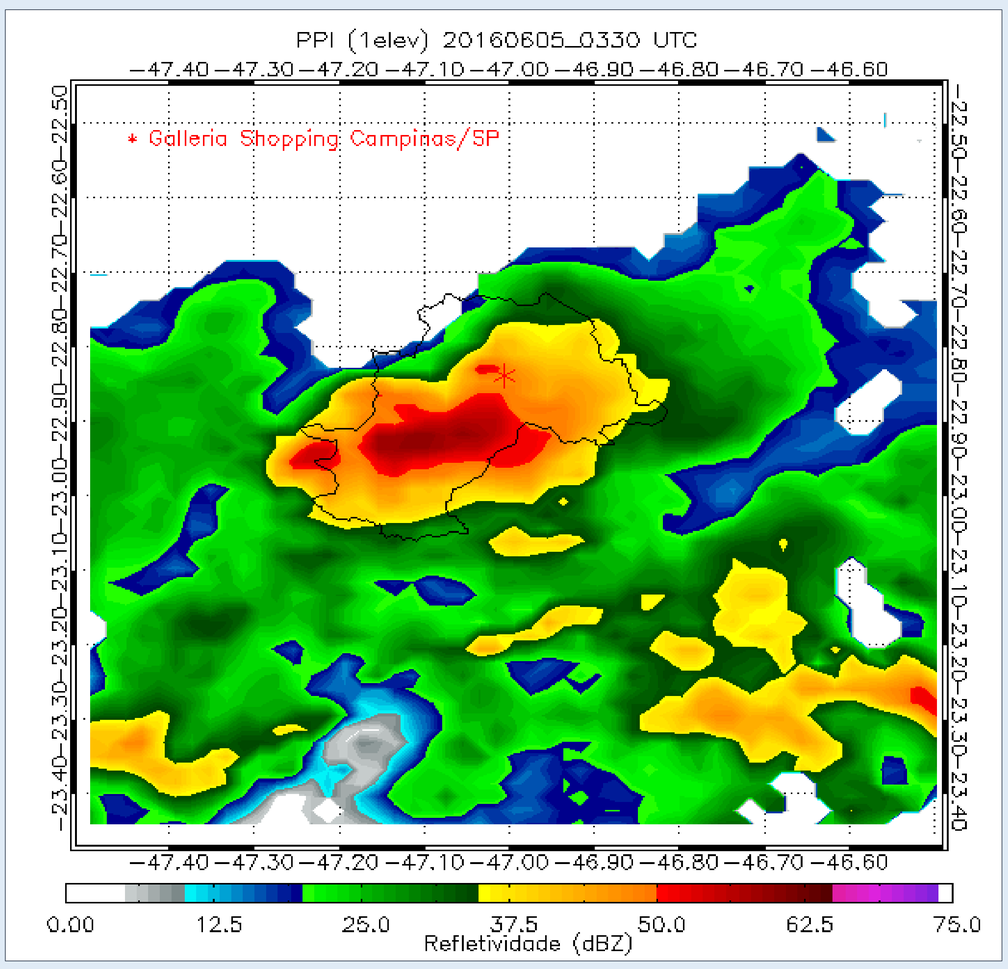
June 5th, 2016, the city of Campinas was surprised by an unprecedented extreme meteorological event.



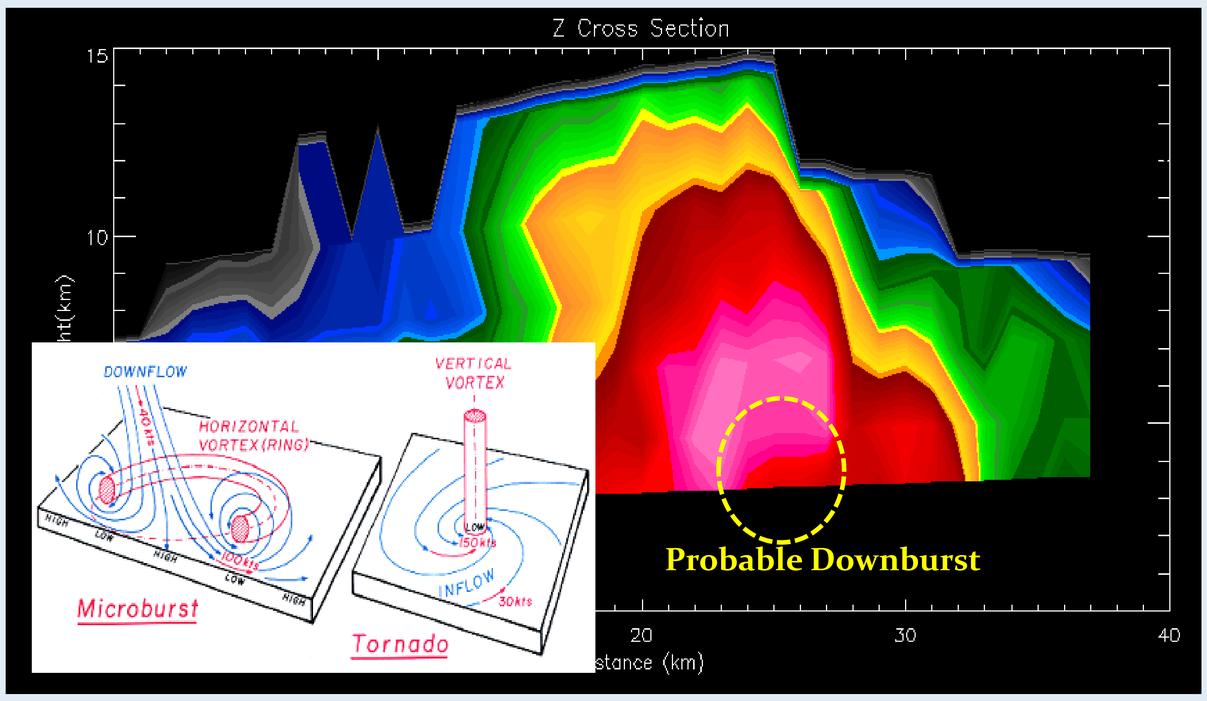
The event had a trajectory about 40km and occurred between 03:00GMT and 03:30GMT.



Data source: DECEA -São Roque

Its destruction trajectory had about 40km, reached urban and rural areas.

The absence of a network of radars capable of covering the area affected led to a huge challenge for the forecast and diagnosis of the event.



Vertical structure of the storm. Source: Fundação Centro Tecnológico de Hidráulica (FCTH).

We highlight the need to consolidate regional meteorological centers for an effective local risk reduction and responses considering the extreme events may become more frequent in the future.

In addition, the communication between the research at the frontiers of knowledge and stakeholders should be emphasized for a proper climate change adaptation and the regional centers can be the path.

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