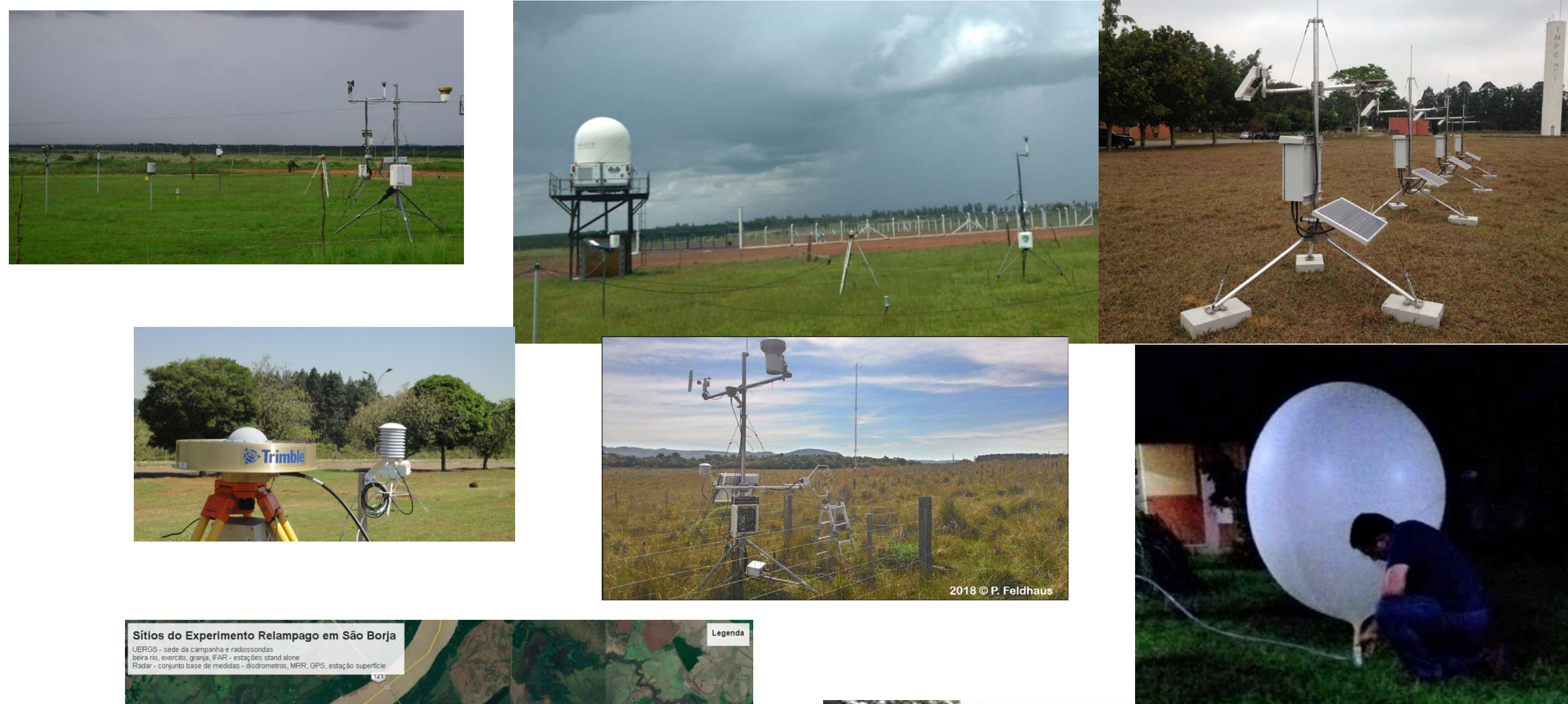


Poster Number: A53U-3045

The São Borja Downburst Observed During RELAMPAGO: Evidences and a New Conceptual Model

Luiz Machado, Jean-Pierre Chaboureau, Bruno Z. Ribeiro and Edmilson D Freitas

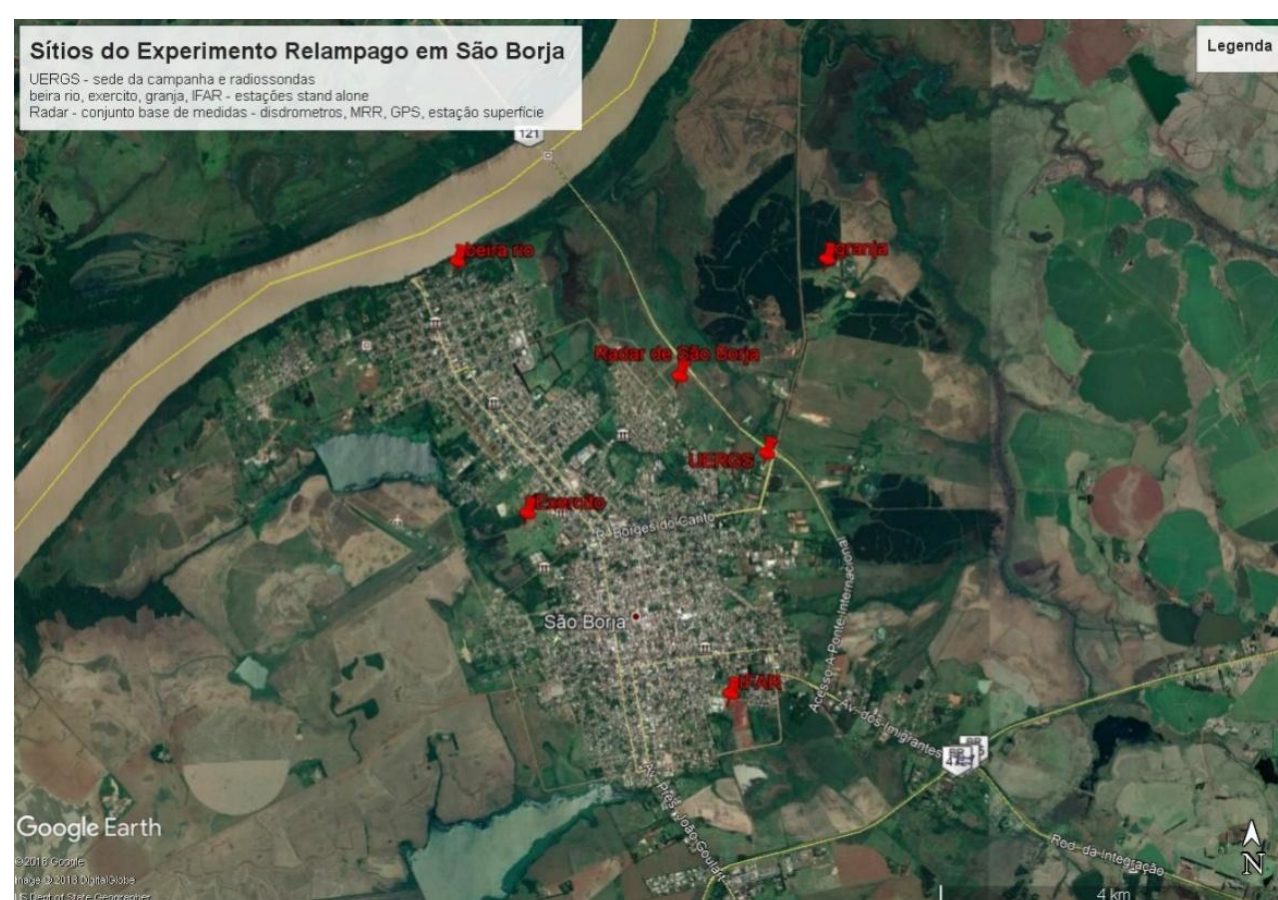
The São Borja site – SOS-CHUVA contribution to RELAMPAGO



- Soundings: nearly 60 soundings released every day at 1800 UTC and hourly when convection was nearby;
- Surface stations: 5 stations
- Hailpads: nearly 10 fixed hailpads in the region
- RD-80 and Parsivel disdrometers,
- micro-rain radar (MRR)
- electric field mill and GPS receiver
- Brasildat lightning data
- X Band Dual Pol radar
- GOES-16 MDS rapid Scan

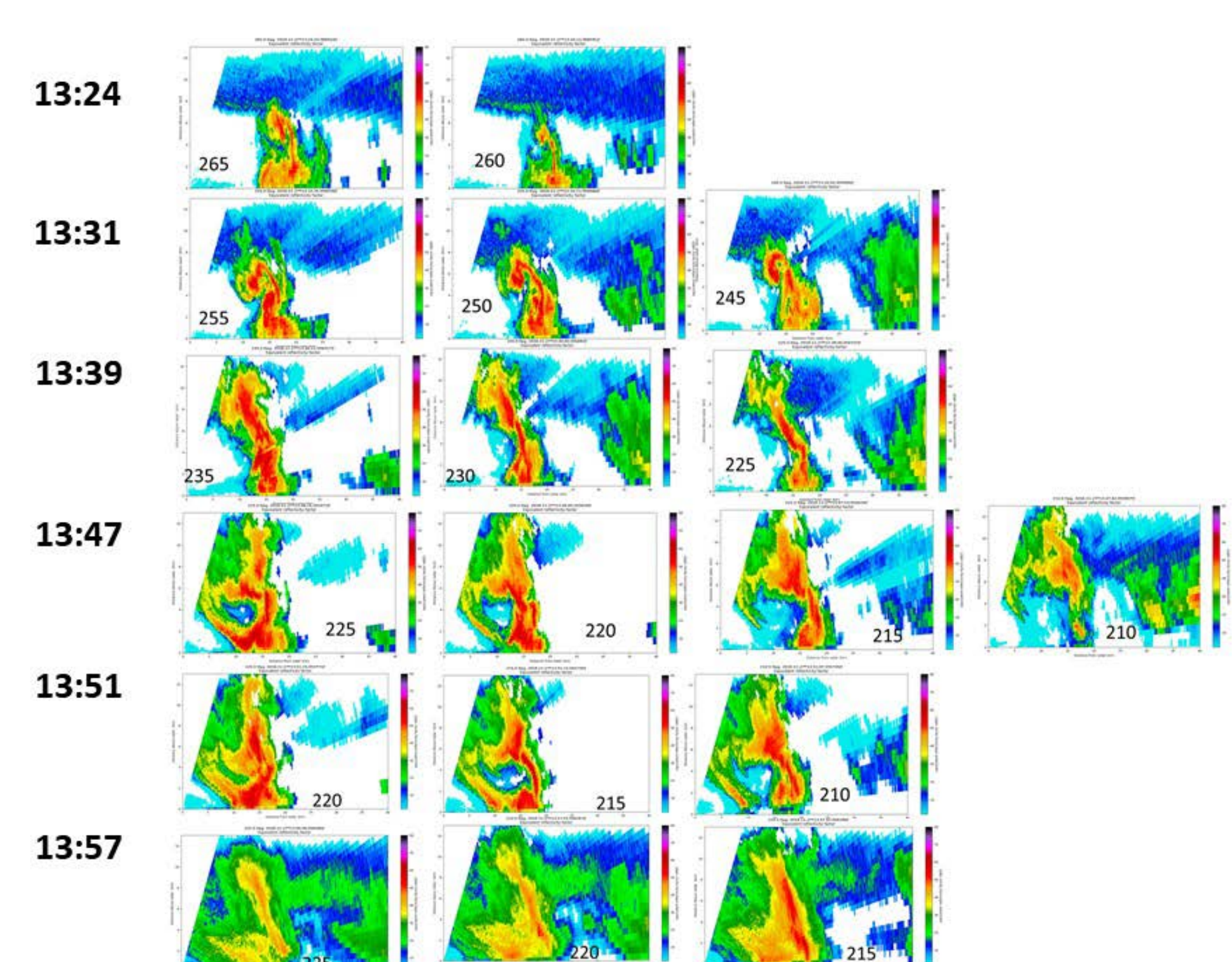
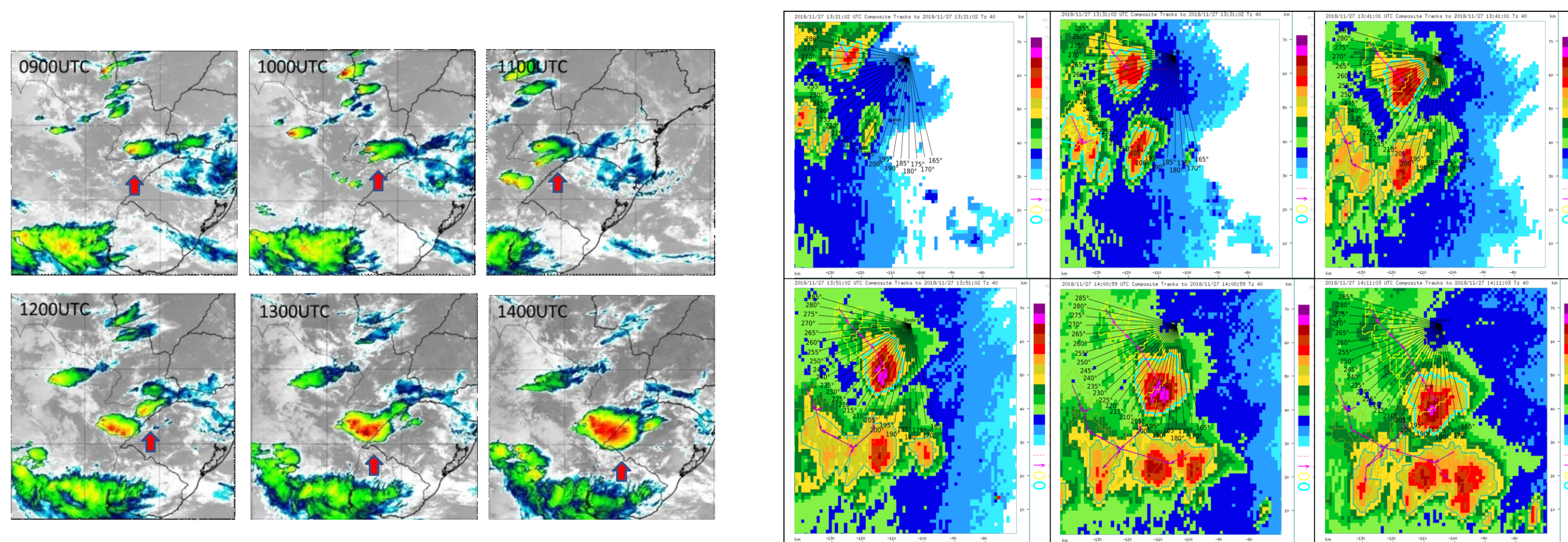
Cases Studies Reported

- **13 Nov 2018:** Intense QLCS moved all the way from Argentina
- **17 Nov 2018:** large MCS caused flash flood in the region
- **27 Nov 2018: Supercell – Downburst**
- **14 Dec 2018:** nocturnal storms sampled by hourly soundings and RHIs
- **12 Dec 2018:** gust front associated with nocturnal QLCS sampled by hourly soundings

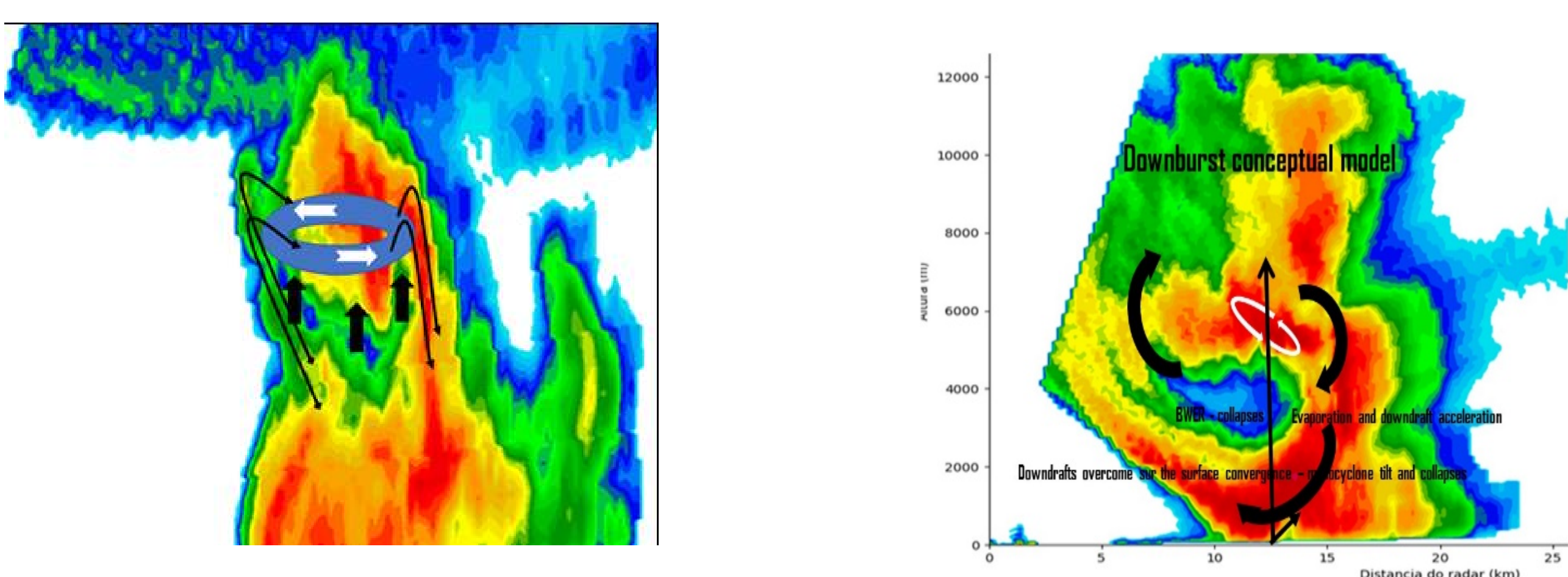


27 Nov 2018: Supercell – Satellite and Radar S Band PPI

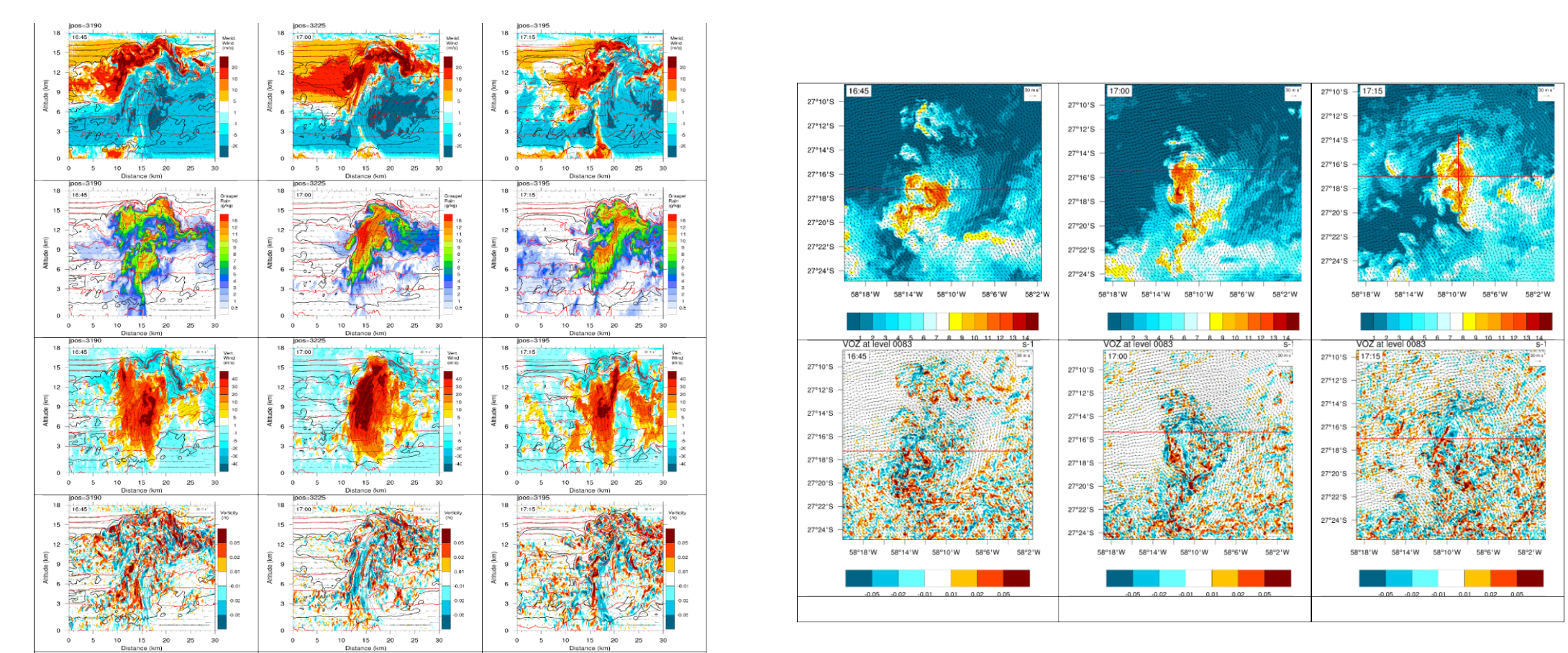
27 Nov 2018: Supercell – Radar RHI



The Conceptual Model



100m Large Eddy Simulation Meso-NH



More information at <http://soschuva.cptec.inpe.br/>
or watch our video by accessing the QR code