











Poster Number: A53U-3045

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

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The São Borja site - SOS-CHUVA contribution to RELAMPAGO



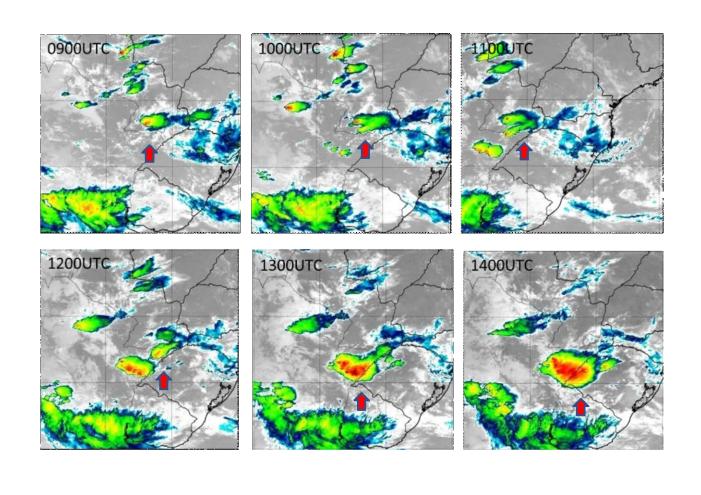
- > Soundings: nearly 60 soundings released every day at 1800 UTC and hourly when convection was nearby;
- Surface stations: 5 stations
- ➤ Hailpads: nearly 10 fixed hailpads in the region
- RD-80 and Parsivel disdrometers,
- micro-rain radar (MRR)
- electric field mill and GPS receiver
- Brasildat lightning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

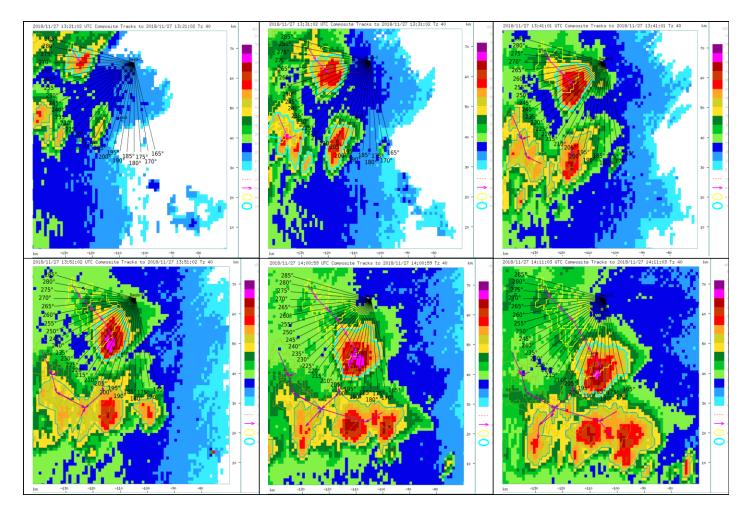


- 13 Nov 2018: Intense QLCS moved all the way from Argentina
- 17 Nov 2018: large MCS caused flash flood in the region
- 27 Nov 2018: Supercell Downburst
- 14 Dec 2018: nocturnal storms sampled by hourly soundings and RHIs
- 12 Dec 2018: gust front associated with nocturnal QLCS sampled by hourly soundings

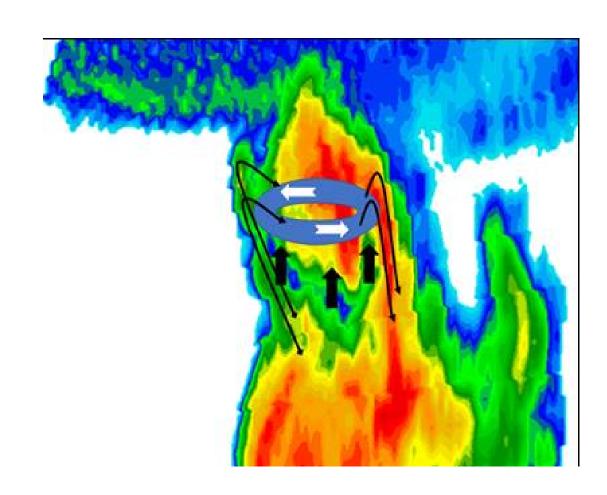


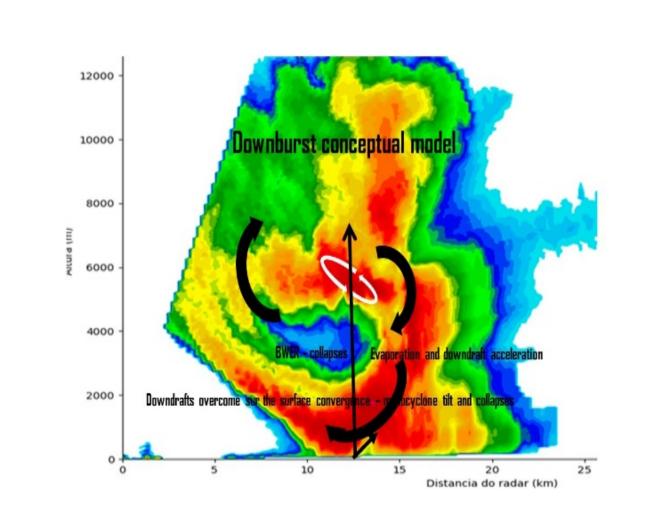




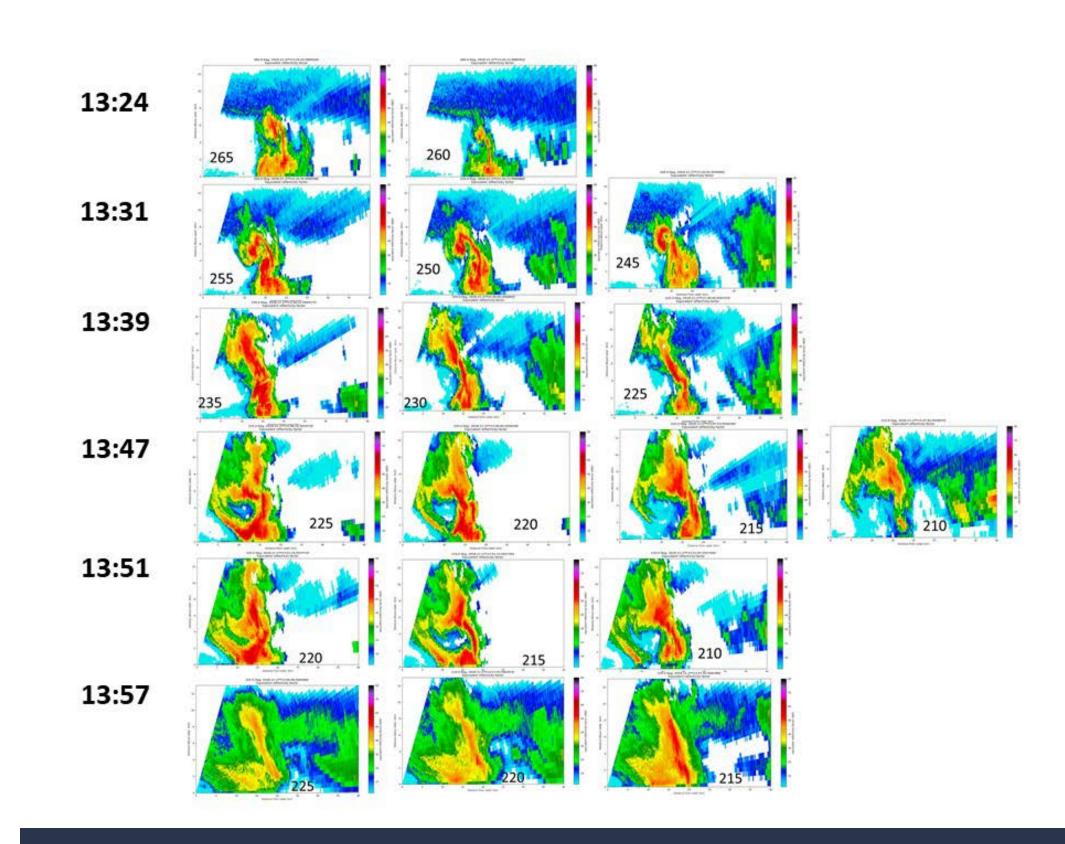


The Conceptual Model





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



100m Large Eddy Simulation Meso-NH

