High Impact Weather Events in the Andes

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Supplementary Material

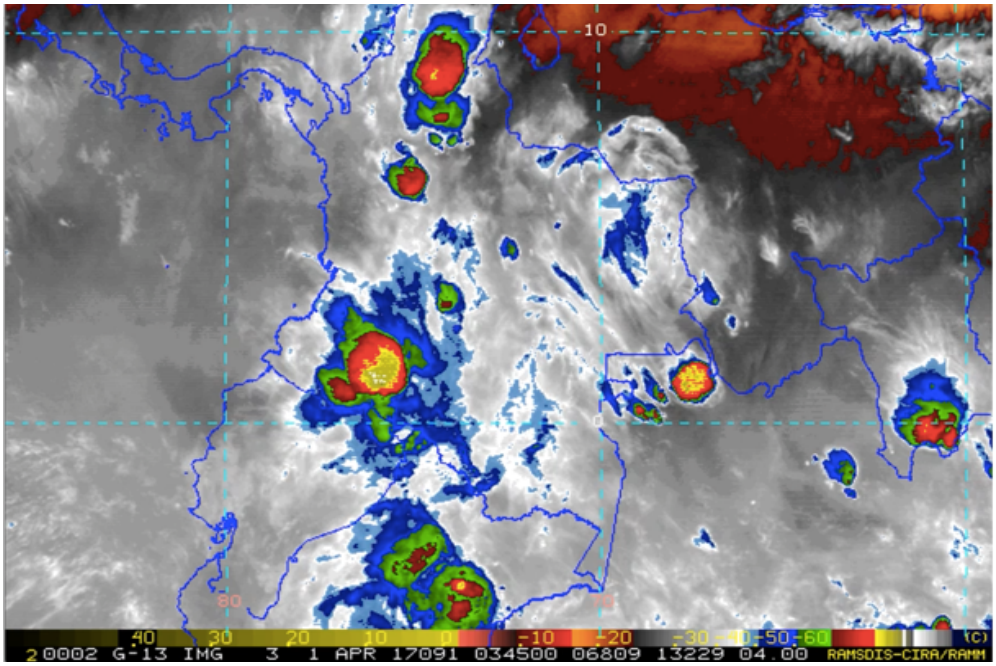

Figure S.1. GOES satellite image of the Mesoscale Convective System that triggered the flooding of Mocoa, Colombia, on April 1st, 2017 at 03:45 UCT. Image downloaded from the NOAA National Environmental Satellite, Data, and Information Service (NESDIS), from the RAMSDIS Online Archive at http://rammb.cira.colostate.edu/ramsdis/. Source: Poveda et al. (2020).

Figure S.2. Flooding of Mocoa, Putumayo, Colombia, on April 1st, 2017.

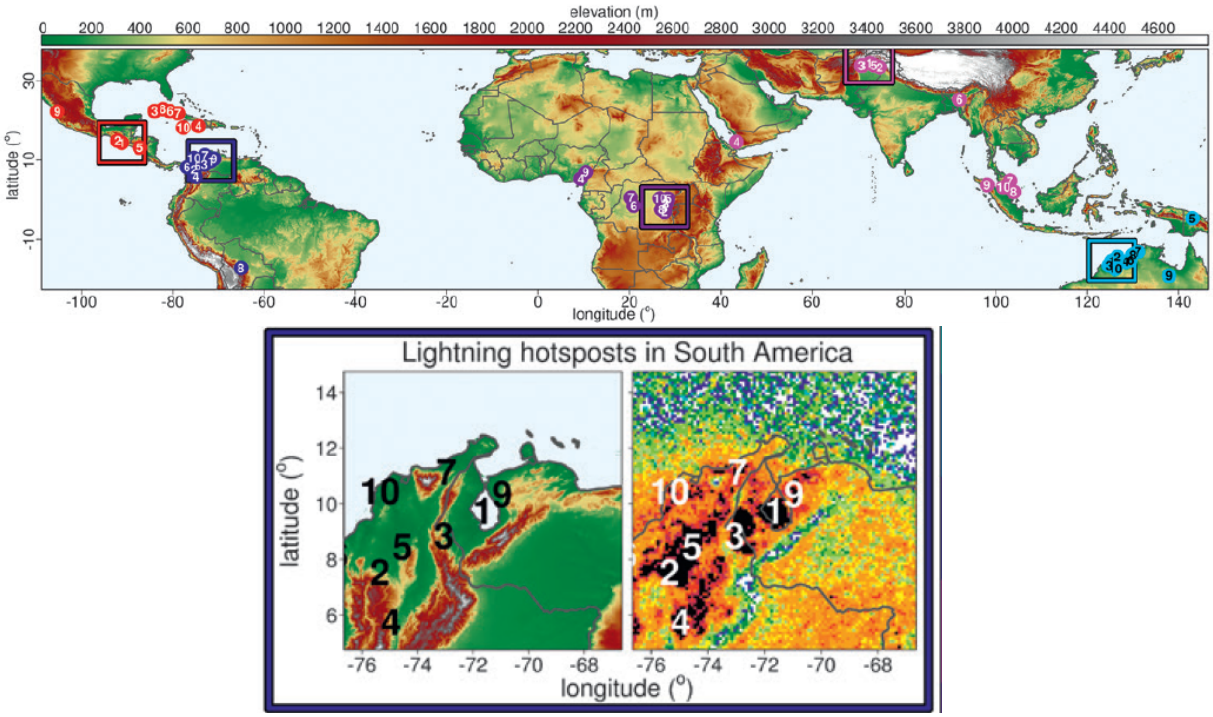

Figure S.3. (Top) Location of the top ten flash rate density (FRD) sites in the world. (Bottom) 2.5° zoom boxes on FRD climatology over northernmost South America. Shaded color scale on the top and bottom left panels represent terrain altitude. Source: Albrecht et al. (2016).

Figure S.4. (Top left) Frost events in the Bogotá-Boyacá Plateau over the Eastern Andes of Colombia. Source: El Tiempo newspaper. (Top right) Frost in Santa Rosa de Osos, Antioquia (2.550 m a.s.l.), Central Andes of Colombia, on March 4th, 2018. Source El Colombiano newspaper. (Bottom left and right) Frosts in Tona, Boyacá over the eastern Andes of Colombia. Source: Semana Sostenible from Twiter.

Figure S.5. The Vilcanota River flows through Machu Picchu town, leaving devastation in its wake in 2010. Source: Reuters.

Figure S.6. (a) Landslide over the water treatment plant of Manizales, Central Andes of Colombia, on October 19th, 2011. Source: Aguas de Manizales (2014); https://www.slideshare.net/pasante/aguas-de-manzales. (b) Landslide over the Bogotá-Villavivencio road over the Eastern Andes of Colombia in May 2019. Source: Magazine Semana.

References

Aguas de Manizales (2014). Gestión del Riesgo en Agua Potable y Saneamiento Básico. Caso Aguas de Manizales. Abril 2.014. Available on line at https://www.slideshare.net/pasante/aguas-de-manzales

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