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## **THE EMBRACE MAGNETOMETER NETWORK IN SOUTH AMERICA: NETWORK DESCRIPTION AND FIRSTS RESULTS**

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EMBRACE Magnetometer Network

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We present the new EMBRACE Magnetometer Network in South America, which so far is planned to cover most of the Eastern Southern American longitudinal sector deploying magnetometer in several locations. We discuss the purpose and scientific goals of the network, associated with the Low- and Mid-Latitude Ionospheric Currents and Space Weather. We provide details on the instrumentation, the inter-calibration procedure, and installations of equipments already installed. In addition, we present and discuss details on the data storage, near-real time display and availability. Finally, we provide some of the first results we already achieved from this network, including the development of new real time magnetic regional indices for South America.

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