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Solar modulation of Cosmic Rays as Measured by A Muon Detector at Mid-latitude site during November- December 2013.

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Between November and December 2013 three Forbush decreases (FDs) with amplitudes between 4-6 % have been observed by cosmic ray monitors around the world. In this paper, the response of a cosmic ray muon detector (area of 0.25 m^2) to these events will be given. This detector was locally constructed and is in operation since September 20013. Interplanetary data, interplanetary magnetic fields, solar x-ray fluxes, and solar energetic particles were used to characterize the solar and interplanetary conditions causing the FDs. Cosmic ray data from twenty-two ground-based stations were used to investigate these FDs and compare them with our data.