

Space Weather Monitoring: Recent Detected Events by CALLISTO-SWMC during 2011-2012

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A radio spectrometer of the CALLISTO type have been deployed in SWMC (Space Weather Monitoring Centre) at the Helwan University, south of Cairo in Egypt to observe solar flares for space weather monitoring. The operational installation/configuration was supported by a 'Teaching Stay Grant' provided by the North-South Centre of ETH Zürich. Logarithmic-periodic antenna was installed on top of the roof of the SWMC institute. Height of the antenna is 6m, the longest dipoles covering 20 MHz have about 6m. The preamplifier is a ZX60-33LN+ from Mini Circuits. Antenna cable (HX-50) is 30m long down to Callisto receiver.

In this paper, we explain briefly the design/manufacturing of the antenna and present the recent strongest events detected by CALLISTO-SWMC during 2011-2012.