The Hermanus Magnetic Observatory (HMO) is an Earth and Space national research facility. It forms part of a worldwide network of observatories and/or data centres. In this context, the HMO conducts research, makes observations and simulates the variations of the Earth and space environments using a wide network of instruments that are spread around the southern African region and extending as far south as Antarctica. In collaboration with its partners, the HMO owns and/or operates a wide suite of earth-space observational and monitoring instrumentation which include various types of magnetometers, 4 ionosondes, an HF radar, ionospheric scintillation and TEC monitors, neutron monitors, imaging riometer, broad-beam riometer, a low light auroral video camera, GPS receivers, WWLLN lightning detectors, VLF receivers and whistler detector. These instruments are located in various locations including South Africa, Namibia, Marion Island, Gough Island and the South African Antarctic base SANAE IV. Through this geographically wide and multi-function observational network, the HMO contributes earth and space data to various global networks. This data is used for research; the determination of key space weather parameters; the simulation, modelling and forecasting of the earth-space environment. The HMO is also a space weather Regional Warning Centre (RWC) for Africa under the International Space Environment Service (ISES). This RWC performs near-real-time monitoring and prediction of the Earth’s space environment, assisting users in Africa to reduce the impact of space weather on activities of human interest.