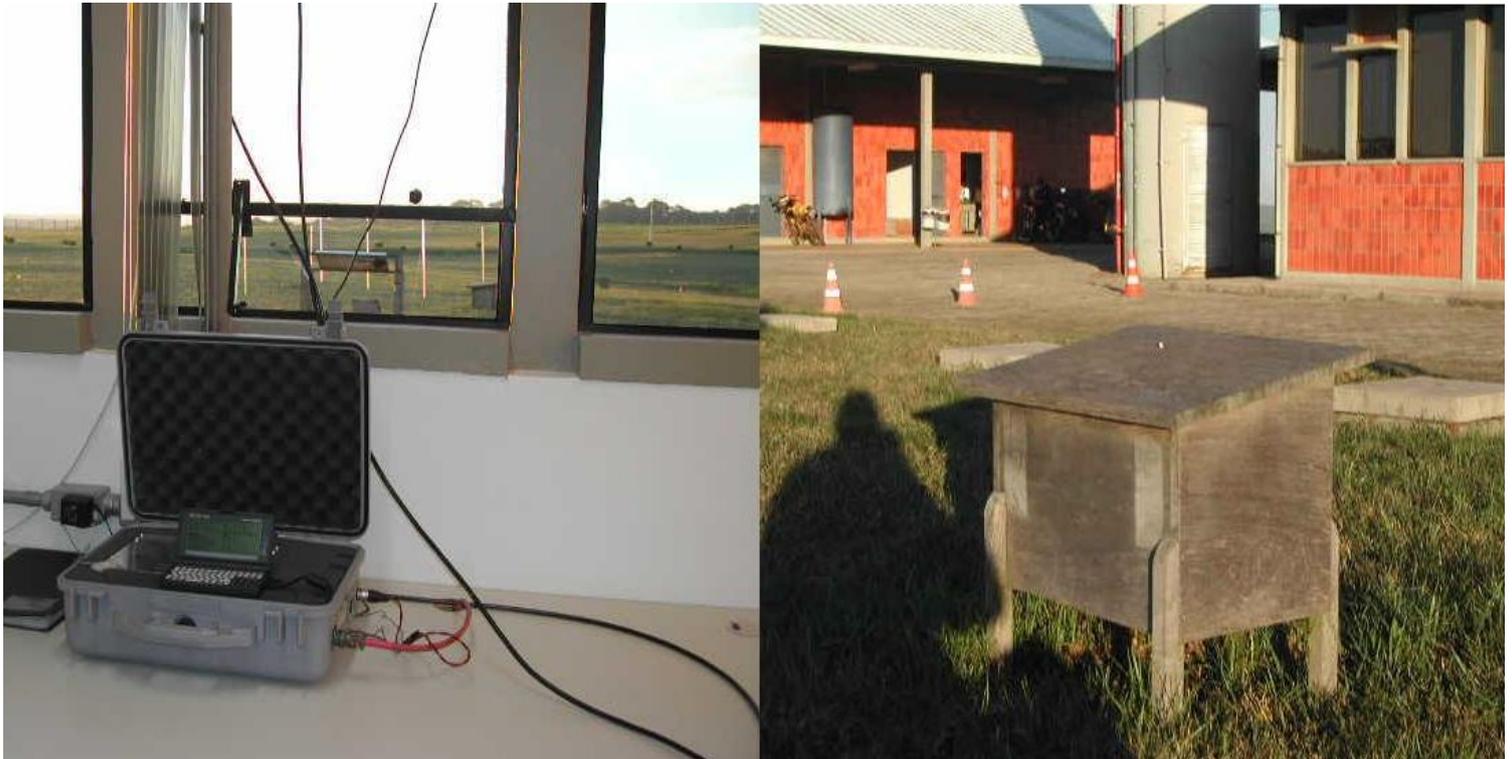


geomagnetic field data collection is made at a magnetometer (saturated nucleus) installed at the Southern Space Observatory – (SSO), in São Martinho da Serra, RS, Brazil, (Figure 3), for the components: **H** (South-North), **D** (East-West) and **Z** (vertical). The pre-processed data is being organized in a database and analyzed at the CRS's Solar and Planetary Medium and Magnetosphere Laboratory in Santa Maria, RS, Brazil (Figure 4).



**Figure 3:** High resolution fluxgate magnetometer installed at the Southern Space Observatory, ( $29.42^{\circ}$  S,  $53.82^{\circ}$  W, 488m a.s.l), in São Martinho da Serra, RS, Brazil

