Scanning XRF: X-ray fluorescence analysis of core elemental composition

In summer of 2006 the Large Lakes Observatory at the University of Minnesota-Duluth acquired a Cox Analytical Itrax XRF Core Scanner with NSF funds. The instrument provides elemental composition and x-radiographic images on split cores at a maximum resolution of 200 μm.

For further information, cost estimates, and scheduling, please contact Dr. Erik Brown (etbrown@d.umn.edu or 218-726-8891).

There is a continual exchange of cores between the LLO XRF facility (LLOX Lab) and LRC/LacCore in Minneapolis. After visiting LacCore to conduct initial core description, many researchers leave the archive halves of their cores with us to be included in the next load of cores to be driven to LLOX. Cores need not be accessioned to the Repository to receive this service. Others combine a LacCore visit with a trip to LLOX to scan their own cores. Duluth is only a 2.5 hour drive from the Twin Cities of Minneapolis and St. Paul.