

CIRDLES.ORG - GEOCHRONOLOGY CYBER INFRASTRUCTURE OF MARS, TOPSOIL, CHRONI, ET_REDUX, AND SQUID WORKING WITH SESAR TO SUPPORT GEOSCIENCE



James F. Bowring, Julius Walton, Jake Marotta, Ryan Barrett¹, Bryce Barrett
Department of Computer Science, College of Charleston, Charleston SC 29424



The Cyber Infrastructure Research and Development Lab for the Earth Sciences (CIRDLES.org) is an undergraduate software development facility at the College of Charleston. Faculty and students in CIRDLES collaborate with those from the earth sciences at other institutions to research and develop an ecosystem of software products that support geochronology and interact with products from the System for Earth Sample Registration (SESAR), such as Geochron.org, via the use of the International Geo Sample Number (IGSN), a unique identifier for a sample. A primary goal of this work is to provide facilities in the software products that ease the burden on scientists of 1) collecting and collating metadata about their data and analyses, and 2) registering their samples and results with IGSNs in a way that supports their own and the community's management, both electronic and physical, of these artifacts.

