

## Appendix 2: Alternative data repositories

Archive	Data types	URL	Data Format
MARGINS Database	All metadata from MARGINS-funded proposals. Digital data for which no other disciplinary archive exists.	<a href="http://www.marine-geo.org/portals/margins/">http://www.marine-geo.org/portals/margins/</a>	Metadata: Use of MARGINS DB metadata forms preferred. Data: Unless specified, use formats that are in common academic use.
MGDS Academic Seismic Portal-UTIG, MGDS-Academic Seismic Portal-LDEO	Seismic reflection and refraction metadata and data. UTIG site handles processed seismic reflection sections and older refraction datasets, LDEO site handles SCS and MCS field data. OBS data collected using OBSIP are submitted to IRIS directly through OBSIP.	<a href="http://www.ig.utexas.edu/sdc/">http://www.ig.utexas.edu/sdc/</a> , <a href="http://www.marine-geo.org/portals/seismic">http://www.marine-geo.org/portals/seismic</a>	SEG-Y (assistance available for conversion) Unrestricted access to the navigation and a ~300x600 track image. Geographic location information for the traces in the file. Metadata describing acquisition, navigation geometry, processing sequence and provenance. Metadata can also include cruise reports, important citations, etc.
MGDS - Global Multiresolution Topography Synthesis.	Multibeam and swath mapping data.	<a href="http://www.marine-geo.org/portals/geomaps/">http://www.marine-geo.org/portals/geomaps/</a> , <a href="http://www.marine-geo.org/portals/geomaps/">http://www.marine-geo.org/portals/geomaps/</a>	All swath sonar data formats supported by MBSsystem
National Oceanographic Data Center	Ocean physical data: temperature, salinity, light transmission or attenuation, currents, waves, pressure, sea level, and sound speed. Ocean chemistry data: nutrients, tracers and pollutants.	<a href="http://www.nodc.noaa.gov/">http://www.nodc.noaa.gov/</a>	Consult the data center
National Geophysical Data Center	Geophysical, geological and geochemical data: Bathymetry, magnetics, gravity, seismic and other quantitative geophysical data. Geological data: Including station locations, collection/storage locations and preliminary descriptions of seafloor samples recovered. Descriptions and analytical data: Including geochemistry, derived from sediment and rock samples, including ODP data.	<a href="http://www.ngdc.noaa.gov/">http://www.ngdc.noaa.gov/</a>	Consult the data center
ODP/IODP (Refer to IODP data policy - see Appendix 1)	All ODP/IODP data and samples	See Appendix 1	See Appendix 1
PetDB, SedDB	PetDB- geochemical and petrological sample-based data: Major oxides, trace elements, radiogenic and stable isotopes, and analytical age determinations measured on whole rock samples, volcanic glasses, minerals, and melt inclusions. SedDB- geochemical data from sediments.	<a href="http://www.petdb.org/">http://www.petdb.org/</a> , <a href="http://www.seddb.org">http://www.seddb.org</a>	Consult the data center
Geochemical Resource Library	Repository and metadata catalog for geochemical datasets, synthesis databases, tools, and other digital resources relevant to the field of geochemistry contributed by the geochemistry community	<a href="http://www.earthchem.org/gr/">http://www.earthchem.org/gr/</a>	Consult the data center
System for Earth Sample Registration (SESAR)	Registry that distributes the International Geo Sample Number IGSN. SESAR catalogs and preserves sample metadata profiles, and provides access to the sample catalog	<a href="http://www.geosamples.org/">http://www.geosamples.org/</a>	Consult the data center
Lamont Doherty Earth Observatory Deep-Sea Sample Repository	Deep sea core sediment and rocks	<a href="http://www.ldeo.columbia.edu/res/fac/CORE_REPOSITORY/RHP1.html">http://www.ldeo.columbia.edu/res/fac/CORE_REPOSITORY/RHP1.html</a>	Samples
Library of Experimental Phase Relations (LEPR)	Database of results of published experimental studies involving liquid-solid phase equilibria relevant to natural magmatic systems.	<a href="http://lepr.ofm-research.org/">http://lepr.ofm-research.org/</a>	Consult the data center
North American Volcanic and Intrusive Rock Database (NAVDAT)	Repository for age, chemical and isotopic data from Mesozoic and younger igneous rocks in western North America	<a href="http://www.navdat.org/">http://www.navdat.org/</a>	Consult the data center
Oregon State University Marine Geology Repository	Sediments, rocks, and sediment trap samples recovered from the world's oceans	<a href="http://corelab-www.ocs.orst.edu/">http://corelab-www.ocs.orst.edu/</a>	Samples
Scripps Institution of Oceanography Geological Collections	Ocean bottom sediment cores, sea-floor dredge hauls, marine samples collected from land sites and special collections (prepared residues, microscope slides and related field data)	<a href="http://collections.ucsd.edu/">http://collections.ucsd.edu/</a>	Samples
Smithsonian Institution National Museum of Natural History	Rock and ore samples cataloged by lithology, locality, museum catalog number, metal/commodity, or volcano name when appropriate, and many are retrievable by original field number and donor name. Many are mentioned specifically in publications, have thin sections available, and/or include a chemical analysis in the database.	<a href="http://collections.nmnh.si.edu/sea_rch/ms/">http://collections.nmnh.si.edu/sea_rch/ms/</a>	Samples
University of Rhode Island Marine Geological Sample Repository	Dredge rocks, deep-sea cores, and land-based geological samples	<a href="http://www.gso.uri.edu/MGSLsite/mgsl_homepage.htm">http://www.gso.uri.edu/MGSLsite/mgsl_homepage.htm</a>	Samples
Woods Hole Oceanographic Institution Seafloor Samples Laboratory	Seafloor samples including those collected by ocean coring, dredges and HOV, ROV and other "grabs"	<a href="http://www.whoi.edu/corelab/">http://www.whoi.edu/corelab/</a>	Samples
UNAVCO GSAC sites	Campaign and long-term GPS station records.	<a href="http://www.unavco.org/">http://www.unavco.org/</a>	Any teqc readable format. Station data files must include provider and sponsoring agency information in the headers, or in associated logs or other documentation. See UNAVCO website for more information.
IRIS	Any of the following from campaign or long-term seismometers: Passive and active source waveforms. Seismic event records.	<a href="http://www.iris.edu/data/data.htm">http://www.iris.edu/data/data.htm</a>	Specific SEED formats (see IRIS site for more information) encouraged. "Assembled data sets" - usually from temporary deployments and in non-SEED formats, e.g., some PASSCAL active source data.