

Submission Date	Status	Thesaurus Team Notes	Proposed Term	Proposed Scope Note	Source of Term	Submitter Additional Comments
11/25/2024	Received		transboundary aquifer	An aquifer that crosses international or groundwater basins boundaries		
11/16/2024	Received		organism			
10/16/2024	Rejected	The term already exists in the USGS Thesaurus	vegetation			
9/18/2024	Under Review		monitoring network			I was surprised that a Ctrl-F of the USGS Thesaurus did not return any matches on the concept of a monitoring network. The most closely related term that I found is "field monitoring stations". A monitoring network is an aggregation of field monitoring stations that fulfill a common purpose. There are different ways to define a network and its participating monitoring locations, for example, by administrative programs, hydrographic features of interest, algorithms, and other methods. I wonder if the concept of a monitoring network could be hierarchical with more precise definitions of the various types of monitoring networks nested below.
8/31/2024	Rejected	Out of scope for USGS Thesaurus	contingency theory		Leadership theories	
7/26/2024	Rejected	Out of scope for USGS Thesaurus; too nebulous. Additionally, no scope note or contact info were provided.	term			
7/16/2024	Rejected	The term "habitats" is in the thesaurus and is the term that should be used.	Habitat			
6/24/2024	Completed	Accepted "threatened species" as a new term and updated the SN for "endangered species". Both scope notes are in alignment with verbiage in the Endangered Species Act.	threatened species	Plant or animal species whose numbers have dwindled enough to warrant consideration for endangered status but that have not yet been placed on the Endangered Species List.	We do a lot of pre-listing work with at-risk/threatened/candidate species to inform USFWS decisions regarding a species' potential placement on the Endangered Species List. "Endangered" and "threatened" have different meanings and probably shouldn't be used interchangeably in the context of species persistence.	"Threatened" may still be an overstatement in some cases, but it doesn't carry the gravitas of "endangered".
6/18/2024	Rejected	Out of scope for USGS Thesaurus; too vague. Neither scope note nor contact info were provided.	second language			
3/10/2024	Rejected	Out of scope for the USGS Thesaurus. Too specific for a single entity.	Rock_GPB		Your GIS data files for MassGIS Bedrock lithology	
12/6/2023	Completed	Accepted and added new term, Raman spectroscopy.	Raman spectroscopy	Non-destructive spectrographic analysis in which a sample of material is irradiated with visible or near-infrared light from a laser, and the wavelength-dependent observations are used to understand molecular characteristics of the material.	Search of "raman spec" site:usgs.gov returns lots of weird applications of this technology. Current use in GEMSC is for graphite and thermal maturity analysis and probably other materials. Outside documentation indicates that the technique is looking at (and requiring) covalent bonds in the material being studied.	This technique is not new, but has recently been used by a research group within the USGS Geology, Energy, and Minerals Science Center. It appears to have a wide variety of applications, though the data must be interpreted carefully as it measures an unusual characteristic of the materials. The instrument can be taken into the field and used there, but it seems like you set up a remote lab in a tent. So maybe not a field method.

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10/30/2023	Completed	Accepted and added new terms barite, graphite, and fluorite.	(critical minerals)	(no change to the scope note)	Imperfect match between the principal element comprising barite, fluorspar, and graphite, which are the subject of a number of studies being carried out for USGS by state geological surveys in support of the Earth MRI initiative as well as studies by USGS scientists.	The idea here is to include in the thesaurus the unusual commodity names barite, fluorite, and graphite without duplicating the 47 other elemental commodities that are adequately identified using their chemical element name (lithium, cobalt, gadolinium, germanium, and so on).
9/14/2023	Completed	Accepted and added new term, environmental justice.	environmental justice	Developing science for equitable data and knowledge driven decision-making, taking into account impacts for all people.	<p>was initiated by the Executive Leadership Team after a series of Executive Orders) determined that a USGS-specific definition of environmental justice is critical for moving forward and following the EJ executive orders. EJ leadership and primary task force members have come together at various meetings to workshop the definition and develop something that aligns to the USGS mission.</p> <p>Adding the EJ definition would provide a way to see USGS projects and products with an environmental justice theme. There is also a need to provide a definition so that everyone at USGS is using the term consistently.</p> <p>We include examples of just some of the science projects that would benefit from adding an "Environmental justice" tag. Each of these projects may result in multiple scientific products; we have included the "project page" for simplicity.</p> <p>Below are examples of research projects funded across the Climate Adaptation Science Center network that have an EJ focus. Each of the Project Explorer pages has a Sciencebase link at the bottom.</p> <p>https://cascprojects.org/#/project/4f8c652fe4b0546</p>	
8/23/2023	Rejected	Term "bulk density" is already included in the USGS Thesaurus.	bulk			
2/22/2023	Rejected	Inappropriate for USGS Thesaurus	reoccurring			
12/2/2022	Rejected	Out of scope for USGS Thesaurus	inclusion			
12/2/2022	Rejected	Out of scope for USGS Thesaurus	equity			
12/2/2022	Rejected	Out of scope for USGS Thesaurus	diversity (of humans, not species)			
9/1/2022	Completed	USE groundwater and natural resource extraction as keywords.	Groundwater Pumping		This is a standard term that has been in use since pumped groundwater wells were invented in the 1920s	

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8/24/2022	Completed	Accepted and added new term, biomarker. Bioindicator was not added.	biomarker	I have no idea what this is. See https://doi.org/10.1016/S1382-6689(02)00126-6 and https://doi.org/10.1016/j.envres.2018.01.041	Use of it for 3 decades.	Let me know if you have any questions or need more definitions. It is more common in the human health literature for disease, but is now being applied for wildlife. Just google human biomarkers and you will see. Thank you for your consideration.
7/18/2022	Rejected	This term is already in the USGS Thesaurus.	Birds			
7/7/2022	Completed	Accepted and added new term, assessment units.	assessment units	Geographic areas for which some valuable resource may be estimated. May be defined in more than two dimensions, as in underground formations. Functions or services may be estimated as well as material resources.	Many mineral and energy resource assessments, as well as estimates of potential carbon sequestration or energy storage.	Data that would be categorized with this term are typically geographic polygons but may be qualified as to the geologic formations they include. Delineation of permissive tracts is often an early step in resource assessment, after definition of the scope of the assessment (mineral deposit type, energy resource type).
7/5/2022	Completed	Accepted and added new term, inverse modeling.	inverse modeling	An iterative approach to estimate the form and characteristics of a physical system that best explains the observations or measurements that have been made. Often used to determine subsurface geological structure from measurements of physical properties obtained at or near the earth's surface.	https://doi.org/10.5066/P9BS882S https://doi.org/10.5066/P98SED0J https://doi.org/10.5066/P92R4OL2 https://doi.org/10.5066/P91599D6	Used in airborne electromagnetic surveying as well as ground or borehole-based electrical instrument monitoring projects.
6/16/2022	Rejected	Term is in the ADL Feature Type Thesaurus.	aquifer		Water Resources has published hundreds, maybe thousands of publications about aquifers. And hundreds of datasets with metadata where this term should be included.	Given the breadth and scope of publications of the USGS about aquifers, why this term does not appear in the USGS Thesaurus for use in metadata records is a mystery. The USGS Thesaurus has terms for water IN aquifers, but the term "aquifer" is not in the Thesaurus.
6/2/2022	Completed	Accepted as hydrocarbon reservoir processes	hydrocarbon reservoir processes	Interactions among groundwater, hydrocarbons, and rock properties of subsurface geological formations, affecting the potential of those formations to form and trap hydrocarbons. Includes aspects of subsurface reservoirs that may hinder or facilitate the passage of fluids introduced through human activities such as carbon sequestration and enhanced oil recovery.	This concept is intended to categorize a wide variety of research topics and methods that are addressed in fine technical detail, including studies of the microscopic interactions of pores and fractures with fluids of many types, as well as broad-scale studies of hydrocarbon reservoirs to assess their potential use in energy storage and carbon sequestration.	
6/1/2022	Completed	Accepted and added new term, gravity gradient.	gravity gradient	Lateral variation of the three-dimensional vector components of gravity, typically measured using airborne sensors.	Helicopter magnetic and gravity gradiometry survey over the Pea Ridge iron mine and surrounding area, southeast Missouri, 2014, https://doi.org/10.5066/F78P5XM4 High-Resolution Airborne Gravity Gradiometry, Magnetic, and Radiometric Data of Mountain Pass, Southeast Mojave Desert, California, https://doi.org/10.5066/P9SQV3SB	

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5/4/2022	Received		electromagnetic reflectance and emissivity	Measurements of the spectral reflectance and emissivity of earth materials, typically in the infrared part of the electromagnetic spectrum, typically done in a laboratory to compare with the corresponding measurements made by airborne or satellite imaging systems.	https://doi.org/10.5066/F7MS3QWM	
1/9/2022	Rejected	Not about scientific information.	democracy			
1/6/2022	Rejected	This term is in the Alexandria Digital Library Feature Type Thesaurus.	streams			
10/19/2021	Completed	Accepted as bioenergetics.	fish bioenergetics	Bioenergetics refers to the study of energy transformations in living organisms. Fish bioenergetics pertains to the bioenergetics of fish.	For details on fish bioenergetics, see this reprint: https://www.tandfonline.com/doi/pdf/10.1080/03632415.2017.1377558	
10/19/2021	Rejected	Combination of bioenergetics (if we add it) and modeling.	fish bioenergetics modeling	Bioenergetics refers to the study of energy transformations in living organisms. Fish bioenergetics pertains to the bioenergetics of fish. A fish bioenergetics model represents an energy budget for the fish.	For details on fish bioenergetics, see this reprint: https://www.tandfonline.com/doi/pdf/10.1080/03632415.2017.1377558 Fish bioenergetics modeling has many useful applications. See reprint for more details.	
10/19/2021	Received		thermal tolerance	Temperature at which fish begin to lose equilibrium. See Stitt et al. (2014; Physiological and Biochemical Zoology 87:15-29) for more details. Useful physiological attribute in predicting effects of climate change on fish populations.	See Stitt et al. (2014; Physiological and Biochemical Zoology 87:15-29).	
10/19/2021	Completed	Accepted as non-preferred term for bioenergetics.	aerobic scope	Aerobic scope is equal to maximum respiration rate minus standard metabolic rate. See Clark et al. (2013; Journal of Experimental Biology) for more details. The greater the aerobic scope, the greater the capacity to withstand warming temperatures. Thus, aerobic scope is a useful physiological attribute in predicting effects of climate change on fish populations.	Aerobic scope is equal to maximum respiration rate minus standard metabolic rate. See Clark et al. (2013; Journal of Experimental Biology) for more details.	

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10/19/2021	Received		biology of sex differences	Branch of biology that focuses on sex differences in all aspects of an individual or organism, from molecules to behavior. See https://bsd.biomedcentral.com/ for more details.	Branch of biology that focuses on sex differences in all aspects of an individual or organism, from molecules to behavior. See https://bsd.biomedcentral.com/ for more details.	
10/19/2021	Completed	Rather than adding a new term, adjustments were made to animal tracking and telemetry.	acoustic telemetry	Use of sound to track fish movement, behavior, and survival. See this link http://www.fecpl.ca/wp-content/uploads/2017/02/Crossin-et-al.-2017-Ecological-Applications.pdf for more details on the use of acoustic telemetry in fisheries management.	Use of sound to track fish movement, behavior, and survival. See this link http://www.fecpl.ca/wp-content/uploads/2017/02/Crossin-et-al.-2017-Ecological-Applications.pdf for more details on the use of acoustic telemetry in fisheries management.	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-Cyclical Wyoming Landscape Conservation Initiative (WLCI)	WLCI is a long-term, science-based program focused on assessing, conserving, and enhancing fish and wildlife habitats while facilitating responsible energy development through local collaboration and partnerships. The USGS is the principle agency charged with conducting science to advance the understanding of how energy development, drought, invasive species, and other ecosystem drivers affect high priority habitats and important fish and wildlife species in Wyoming and surrounding states.	EMA cyclical funds	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Wildlife health and climate change: ecological interactions and management adaptation	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-Wildland Fire	The USGS Wildland Fire Science Strategic Plan (Circular 1471) describes critical fire science capabilities and strategies aligned with needs of the stakeholder community. The plan defines four integrated priorities (1) produce state-of-the-art actionable fire science; (2) engage stakeholders in science production and delivery; (3) effectively communicate USGS fire science capacity, products, and information to a broad audience; (4) enhance USGS organizational structure and advance support for fire science. Under each priority are associated goals and specific strategic actions.	EMA strategic plan	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Vegetation Change	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Tracking Technologies	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Technological Advances, Species Identification, Species Tracking	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Sustainable Energy Development	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Streams	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Species tracking and surveillance	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Species identification, cause-of-death and disease investigation, and pathogen discovery	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW SMC: Fish ecology & management	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Science Technology Engineering and Math (STEM)	This crosscut focuses on USGS science programs with STEM components or programs that invest heavily in STEM support including: the Mendenhall Research Fellows Program; Student Interns in Support of Native American Relations – (Science Support); the National Association of Geoscience Teachers and Youth and Education in Science Education Component (Science Support); Cooperative Research Units (Ecosystems); the Educational Component of the National Cooperative Geologic Mapping Program (EDMAP) and the National Geological and Geophysical Data Preservation Program grants (Core Science Systems); and the Water Resources Research Act Program (Water Resources).	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-Cyclical Science Support Partnership (SSP)/Quick Response Program (QRP)	The USGS/USFWS SSP Program (and its informal sub-program allowing USFWS to designate short-term needs, QRP) supports the USFWS science priorities.	EMA cyclical funds	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Sage grouse	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Risk Analyses	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Restoration	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Quagga & Zebra Mussels	This crosscut captures work efforts surrounding the invasive species of quagga and zebra mussels.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	Priority Ecosystem Science (PES)	The Priority Ecosystem Science (PES) program focuses broad-scale research and monitoring in some of the large and iconic landscapes of the Nation, including the Chesapeake Bay, Everglades, San Francisco Bay, the Southwest Desert, Puget Sound, and Platt River. These projects share similar features because they study species and processes and seek to determine how species and processes operate over large landscapes over time. The USGS's focus on important DOI decisions remains a driving factor in considering what species and habitats to study.	EMA cyclical funding	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Paleoclimate	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Outer Continental Shelf (OCS)	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Oil and gas and related impacts	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Oceans, Coastal & Great Lakes	This crosscut captures USGS research activities focusing on coastal and ocean resources. Includes efforts to: characterize the hazard and resource potential of the Nation's offshore and coastal areas; provide information and tools to anticipate and reduce the risk of natural hazards and coastal change; and assess and manage marine and coastal resources.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Oceans and Estuaries	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-Cyclical Natural Resources Preservation Program (NRPP)	The USGS/NPS NRPP Program supports the National Park Service science priorities.	EMA cyclical funding	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Modeling, Prediction, Forecasting	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Model and data science methodology development and application	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Minerals Life Cycle	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Migration Corridors	This crosscut includes all activities supporting SO 3362: Improving Habitat Quality in Western Big-Game Winter Range and Migration Corridors. This includes mapping and transfer of technical information to State wildlife agencies and other Federal biologists on the tools and methods available to analyze migration corridor data. The activities involve partnership efforts with the States of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to enhance and improve the quality of big-game winter range and migration corridor habitat on DOI-managed lands and private lands.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Microplastics	This crosscut covers microplastics research activities including: understanding the ecological impacts of microplastics; modeling transport; understanding the occurrence and spatial distribution; research on the effects on ecosystem, public health, effects of plastic bag bans; understanding occurrence, sources, fate, biological uptake, and ultimately ecosystem health, potential mechanism of transporting chemicals; understanding the effectiveness of storm water management actions; and identifying the effectiveness of wastewater treatment plants.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Land Stewardship Chemicals	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Land cover change scenarios and modeling	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Invasive species and climate change: ecological interactions and management adaptation	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Invasive Carp	The USGS is providing critical information to resource managers to help control and prevent Invasive carp. The USGS carries out these efforts as part of the Administration's Invasive Carp Regional Coordinating Committee, a group of Federal, State, and local agencies and other private stakeholders, to protect and maintain the integrity and safety of the Great Lakes ecosystem from an Invasive carp invasion. Invasive carp science is also a priority of the multi-agency Great Lakes Restoration Initiative, for which the USGS plays an instrumental role. Activities include remote sensing for detection; carp deterrent techniques, including recordings of boat motors and other sounds played underwater; and eDNA.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Invasive Annual Grasses	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Immunomodulation	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Hydrological Alterations	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Hunting, Fishing and Subsistence Living	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Genetics/Genomics	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Forecasting, decision science, economics, and human dimensions	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Food Resources	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Fish & Wildlife Disease	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Environmental Health DOI Support	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Energy, Renewable - Wind and Solar	This crosscut covers the following activities: wind and solar, biofuels, geothermal, and unconventional oil, and gas/hydraulic fracturing.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Energy, Conventional: UOG/Hydraulic Fracturing	This crosscut covers the following activities: wind and solar, biofuels, geothermal, and unconventional oil, and gas/hydraulic fracturing. Program Coordinators should update for their respective programs. Note: For the unconventional oil and gas portion, Program Coordinators should identify the region in which the activities take place (e.g., the Wolfcamp Shale Formation, Bakken Region, or Marcellus Shale) as well as the specific State(s) where the activities take place, if known.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Energy Life Cycle	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Ecosystem sustainability and resilience	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Ecology and impact	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Ecology and impact	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Ecological Pathways of Contaminant Exposure	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Ecological forecasting	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Drylands	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Deserts	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Cycling of carbon and nutrients	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Core Technology Team	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Coral Disease Research	This crosscut covers activities related to coral disease research. This includes capabilities in marine veterinary laboratory diagnostics and ecological research. Past efforts have focused on coral reef ecosystem health in Hawaii and coral bleaching in the U.S. Virgin Islands. Current efforts include investigating the cause of stony coral tissue loss in Florida; developing decision support tools to inform an appropriate rapid response to disease outbreaks; and supporting inter agency efforts to respond to the Florida coral disease outbreak.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Contaminants (non-oil and gas related)	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW Coasts and Sea level	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC Chronic Wasting Disease (CWD)	This crosscut covers any research activity or DOI Chronic Wasting Disease (CWD) Task Force activity that supports early detection and an effective management response to CWD. This includes optimization of prion detection assays for CWD; risk maps; efforts to evaluate the drivers of elk aggregation (including supplemental feeding) and risk analysis of CWD transmission on winter ranges; and refining models capable of forecasting the spread of CWD.	Budget crosscut	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-LOW At Risk Species	EMA lines of work/sub-line of work	EMA lines of work/sub-line of work	
10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-EMA-Cyclical ARMI	The ARMI program works across Mission Areas to provide critical information about amphibian populations, habitat needs, and local and global drivers of decline. ARMI conducts an integrated, nested program of research and monitoring studies across the US with a focus on hydrology, disease, decision support, recovery, and restoration.	EMA cyclical funding	

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10/18/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus.	USGS-CC American Bison	The American bison includes two distinct species – wood bison (bison bison athabascaae) and plains bison (bison bison bison). Wood bison are found only in Alaska and plains bison are found mainly in 10 States (Arizona, Colorado, Iowa, Montana, Nebraska, North Dakota, Oklahoma, South Dakota, Utah, and Wyoming). The DOI tracks expenditures related to bison research, management, monitoring, and other activities related to the species. This includes, but is not limited to, habitat management on public lands, scientific studies, and grants and cooperative agreements.	Budget crosscut	
9/22/2021	Rejected	Phrases identifying groups of projects will be provided by BASIS+ separate from the USGS Thesaurus. And this term is too general.	Land Stewardship	I was unable to find an existing scope note for Land Stewardship. One "definition" is "conservation of the land's natural resources and features over a long period of time." This has applicability not only to parks, refuges, and reserves but also to any any aspect of a landscape and it's features (farm, reserve, homeowner's property, park) that a manager/owner wishes to preserve.	This term is requested by Environmental Health management as a keyword to be entered into Basis+.	Land Stewardship is the name for one of the Integrated Science Teams in the EH program. In fact, there may be requests to add other terms to the thesaurus for the IST names because of the request by EH management.

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						<p>public lands with some level of protection status. As well, some research is carried out on state lands, or NGO-managed lands, in cooperation with state and non-profit partners. Currently, we have no vocabulary term in the the Thesaurus that describes these areas.</p> <p>Use of 'protected areas' is an elegant means of identifying these lands broadly, and indicating that some level of protections of resources are in place for these areas. It also eliminates the instinctive desire to want to add to the Thesaurus as entry terms all nuances of administrative levels (federal/national, state, municipal, NGOs) as qualifiers (e.g., national parks, state parks, city parks, etc.), the types of lands (parks, refuges, forests, wilderness, etc.), and the various levels of protection that exist (e.g., Status 1/undisturbed, Status 2/managed for primarily natural states, but some disturbance or uses that may degrade natural states permitted; Status 3/multi-use, some extraction/degradation permitted).</p>
8/2/2021	Completed	Accepted as protected areas	Protected areas	U.S. terrestrial and marine protected areas that are dedicated to the preservation of biological diversity and to other natural, recreation and cultural uses, managed for these purposes through legal or other effective means. (from Protected Areas Database of the United States)	The Ecosystems MA has long used this more general term to describe the footprint in which they conduct a wide range of research. The 'Protected Areas Database of the US' is a high profile system that is widely used in various federal data systems (including the Gap Analysis Program), and is integral to the current administration's 30x30 Initiative.	<p>Here's a snapshot of how Peter's favorite thesaurus ;-), the USGS Biocomplexity Thesaurus, handles the term:</p> <p>BT Protected areas NT Marine protected areas NT National monuments NT National parks</p>
7/1/2021	Completed	Accepted as ground failure	ground failure		Peter S. heard it at 2021 CDI meeting.	
4/29/2021	Completed	Accepted as carbon mineralization.	carbon dioxide mineralization		project management request	
4/29/2021	Completed	Accepted as energy storage.	energy storage		project management request	
4/27/2021	Rejected	All natural resource assessment includes economic concerns.	economic natural resource assessment		project management request	
4/27/2021	Received	Possible. We don't have terms for subsurface reservoirs in ADLFTT, and we don't have terms for characteristics of subsurface reservoirs or processes occurring within them.	residual oil zone		project management request	
4/27/2021	Rejected	We already have enhanced oil recovery, no need to make this an NT of that.	carbon dioxide enhanced oil recovery		project management request	
4/27/2021	Completed	Accepted as induced seismicity	induced seismicity		project management request	
4/27/2021	Rejected	Too general	natural carbon dioxide		project management request	
4/27/2021	Rejected	Too general	anthropogenic carbon dioxide		project management request	
4/27/2021	Completed	Accepted as carbon dioxide storage assessment	carbon dioxide storage assessment		project management request	
4/27/2021	Rejected	Too general	carbon dioxide		Requested by project management.	

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4/20/2021	Completed	Accepted as thermal maturation	thermal maturation	Chemical alteration of organic material within sediments and sedimentary rocks as a result of heat. Measures of thermal maturation indicate the extent of transformation of detrital organic material into coal and petroleum.	https://www.usgs.gov/news/earthword-thermal-maturity https://www.usgs.gov/centers/gemsc/science/thermal-indices-innovation	
3/25/2021	Completed	Modified habitat alteration to habitat alteration and disturbance, modify SN, add UF terms.	hazards		An EarthMAP group is wrestling with a collection of information about changes in the physical and biological environment over the entire Colorado River Basin. "Disturbance" was their term, but to me it is too general, and I believe their concerns are more focused on the effects of some types of processes or events on the environment and possibly on human infrastructure as well.	My proposal is currently for a non-preferred term or two, but the group should consider whether this concept is different enough from hazards themselves to warrant a preferred term. Likewise, we have both climate change and effects of climate change as distinct terms.
3/4/2021	Completed	Accepted as environmental proxies	environmental proxies	Organisms or features of the environment whose presence, characteristics, or behavior reflect environmental parameters of interest that cannot be observed or measured in practice.	Email request of Mark Marvin-DiPasquale.	Original suggestion was "proxies" but this word is used in many different contexts to refer to very different things.
3/4/2021	Completed	Accepted as PFAS	PFAS contamination	Contamination by synthetic chemicals commonly used for applications such as fire-retardant coatings on carpeting and clothing, linings of fast food boxes, and fire-fighting foams, which are not readily biodegradable and are highly water soluble, indicating that transport away from sources is nearly inevitable. OR Per- and polyfluoroalkyl substances (PFAS) are a group of anthropogenic emerging contaminants. Some PFAS have been voluntarily phased out, as exposure has been linked to adverse human health effects.	Entry requested in email by Mark Marvin-DiPasquale.	https://www.usgs.gov/ecosystems/environmental-health-program/science/and-polyfluoroalkyl-substances-pfass-detected-source https://www.usgs.gov/centers/nj-water/science/region-1-north-atlantic-appalachian-pfas-capability-team
1/22/2021	Completed	Accepted as microplastic contamination	microplastic contamination	Plastic particles less than 5 millimeters in diameter that come from a wide variety of sources, found in a variety of forms, including fibers, pellets/beads, foams, films, fragments, and tire particles. They reach aquatic environments through diverse pathways, including littering, stormwater runoff, industrial and domestic wastewater, overland application of biosolids, atmospheric deposition, and breakdown of aquatic equipment such as buoys and boats.	https://doi.org/10.3133/fs20203071	Has appeared in some popular news articles as well. My understanding is that these particles differ from other pollutants in that it is their physical properties (size, shape, density) rather than chemical reactivity, that makes them problematic in the environment.
1/7/2021	Completed	Accepted as carbon flux	carbon flux	The amount of carbon exchanged between the oceans, atmosphere, land, and living things.	Came across this talking to a scientist when asking questions about carbon sequestration.	It's not really in my wheel house, so I wasn't sure if it should be a new term or a non-preferred term under carbon cycling. It might also be related to carbon sequestration?

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11/5/2020	Completed	Accepted ore formation RT mineral deposits	ore formation			Mineral deposits is a relatively recent term; the proposed RT relationship here connects it to the process by which it is formed.
11/2/2020	Completed	Accepted as acid neutralizing potential	acid neutralizing potential	Overall effect of the chemical composition of rocks and unconsolidated earth materials leading to the neutralization of acid passing through these materials.	https://pubs.usgs.gov/sir/2008/5063/ (see also notes on acid-base accounting)	
11/2/2020	Completed	Accepted as acid-base accounting	acid-base accounting	The balance between the acid production and acid consumption or neutralization properties of mine waste materials and the geological materials surrounding mine sites.	https://pubs.usgs.gov/of/2003/ofr-03-210/Section508/IX_Acid-base_Accounting-508.pdf https://pubs.usgs.gov/of/2004/1248/OFR2004-1248.pdf	
11/2/2020	Completed	Accepted as solid industrial waste material	industrial waste	Waste materials produced by industrial processing of earth materials, not simply material extracted in the search for ores.	https://pubs.er.usgs.gov/publication/70148019 https://www.usgs.gov/news/slag-what-it-good	
11/2/2020	Completed	Accepted as produced water	produced water	Water produced during generation and development of energy resources (particularly hydrocarbons) as well as related fluids injected into reservoirs for energy development and associated waste disposal.	https://www.usgs.gov/centers/eersc/science/oil-and-gas-waters-project National produced waters geochemical database at https://eerscmap.usgs.gov/pwapp/	
11/2/2020	Completed	Accepted as biological soil crusts	biological soil crusts	Commonly found on the soil surface in arid and semi-arid ecosystems (collectively called drylands), these can consist of mosses, cyanobacteria, lichens, algae, and microfungi, and they strongly interact with the soil. These organisms or consortium of disparate organisms, deReceived on the specific biocrust, are important to the functioning of ecosystems and to the organization of plant and soil communities.	https://www.usgs.gov/centers/sbsc/science/a-field-guide-biological-soil-crusts-western-us-drylands	I noticed this term when analyzing the results of secondary validation of metadata in the online metadata validator.
11/2/2020	Completed	Accepted modified SN for carbon sequestration, UF carbon capture and storage, carbon capture, carbon storage	carbon sequestration		Wikipedia and industry web sites	carbon sequestration exists already, this submission is to include a non-preferred term for it.
11/2/2020	Completed	Accepted as structure from motion	structure from motion	Mathematical analysis of multiple images that depict the same subject from different angles in order to derive geometrical information and relationships that are not inherent in any single image.	This technique is employed by the Coastal and Marine Hazards and Resources Program to analyze oblique aerial photographs of coastal areas collected using unmanned aircraft systems.	
10/1/2020	Completed	Accepted as platinum-group elements	platinum-group elements	A group of chemically similar metal elements that tend to occur in the same types of mineral deposits.	Many mineral resource studies use this term or its abbreviation PGE or PGEs.	"In the thesaurus, chemical element groups don't have narrower terms, but instead have RTs to chemical elements. This concept is somewhat similar to ""rare earth elements"" which we already have, and the term is used in somewhat similar ways to categorize mineral deposits and commodities containing these elements."

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10/1/2020	Completed	Accepted as water column reflectivity	water column acoustic reflectivity	Typically measured by sonar methods, represents a use of information that was previously considered noise in the quest to understand characteristics of the sea floor and the structure of sediments beneath the sea floor.	Coastal and Marine Hazards and Resources field activity tracking system "Compass".	This concept is similar to measurements of acoustic backscatter from the sea floor, but in this case the backscatter is coming from the water column (actually from suspended matter in the water column). Consequently the term itself and some of its relationships are similar to those of seafloor acoustic reflectivity. I expect, perhaps wrongly, that this measurement is done in marine waters and not in lakes, hence BT ocean characteristics.