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ONTOLOGY OF GEOLOGICAL MAPPING

by

TYLER BOYD

Under the Direction of Dr. Hassan Babaie

ABSTRACT

In this thesis, an ontology for the geological mapping domain is constructed using the Protégé ontology editor. The Geological Mapping ontology is developed using terms and relationships, and their properties, as they relate to creating a geologic map. This vocabulary is semantically modeled in the ontology using Web Ontology Language (OWL). The purpose of this thesis is to exemplify how an ontology can be designed and developed to represent geological knowledge as it relates to mapping.

INDEX WORDS: Geological Mapping, Ontology, OWL

ONTOLOGY OF GEOLOGICAL MAPPING

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TYLER BOYD

A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of

Master of Science

in the College of Arts and Sciences

Georgia State University

2016

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2016

ONTOLOGY OF GEOLOGICAL MAPPING

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May 2016

DEDICATION

I dedicate this thesis to my loving wife, Shannon, for all of her help and support over the past few years.

ACKNOWLEDGEMENTS

I would like to thank all who have made this thesis possible, without their help this work would not have been accomplished.

I would first like to thank my advisor Dr. Hassan Babaie, for providing me with his guidance, encouragement, and assistance. Through his experience and suggestions, I was able to make my thesis what it is today. My desire to pursue a Master's degree would not have sustained without his continuous support.

I would also like to thank my Thesis Committee members, Dr. Paulo Hidalgo-Odio and Dr. Brian Meyer for their roles in helping guide me through the Master's program and the completion of my thesis.

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1 INTRODUCTION

1.1 Purpose of the Study

The purpose of this thesis is to establish an ontology for geological mapping that has not yet been created. This new ontology for geological mapping goes beyond earlier ontologies that simply dealt with recording site data or correlating information from one map to the adjacent map. The goal of this ontology is to make it so a newly created map inherently has semantic meaning. The semantic capabilities of this ontology far exceed those present in other ontologies by actually enabling individual geological features on a map to understand their geological meaning as they relate to themselves and all other features on the map. This permits a non-geologist to discover what is being represented on the map and how it relates to other features, similar to how a geologist would. It would also allow a geologist, seeking complex information about an area or region specific to their study, to quickly and effectively retrieve, via query, all information and related information, just by asking the knowledge base associated with that ontology. The level of difficulty and specificity of queries made within the Ontology of Geological Mapping far surpasses those able to be made in a standard data-base, due to the information within the knowledge base actually knowing how all parts within itself relate. Developing this ontology is important for overcoming the limitations of paper maps and providing a tool capable of semantic reasoning, where both geologists and non-geologists can gain a better understanding of the information contained within geologic maps.

Geologic mapping is an essential part of understanding an area of study in geology. Over the years, there have been countless maps created across the globe. These maps were developed using basic tools and technologies that do not directly allow software to acquire an understanding

of the geological features that have been placed on the maps. The development of an ontology for geologic mapping would transform a map from a 2D image with attached map key, to a map that is able to find specific information that fits the answer to a complex query about it. This is due to the fact that an ontology makes it so the information on the map is semantically connected to all other relevant information on the map. An ontology would create a semantically-aware data collection and storing system for geologic maps. It would also unify and relate the terms used so that all individual variations of a specific term, when put into the knowledge base, are linked to the same geologic term. This would provide an individual ease of access to relevant information across countless numbers of maps and their related information within the knowledge base as it applies to their research. Traditional 2D geologic maps require the individual to analyze each map, and its related data, individually and reason through the connections between any and all geological features on the maps and the meanings between them. In the absence of geologic mapping ontologies, the individual themselves must discover the aforementioned connections and meanings using only their individual knowledge. Access to the knowledge base allows for the sharing of knowledge from many individuals and the connections and meanings to already be related within the ontology.

Geologic maps are a visual 2D representation of the 3D surface features of geologic units and the contacts between them that show the spatial and temporal information related to the geologic structures and other features of the units. This structural information includes measurement and orientation data whose meanings and interrelationships cannot be understood by conventional paper maps unless explicitly stated on the map or in an associated write-up. The same can be said of the geologic units of the map, an individual unit labeled in the key may have missing information such as the full composition of the unit or the relationship between the unit

and all other features on the map. For example, if the unit has foliations within its bedding the current method of geologic mapping is unable to relate the meaning of the foliation in the unit to foliations within other units, structures, and ages of the structures. This is where using a knowledge-based ontology would come in use. A semantic map system would allow formal description of the relationships among sets of information on the map, similar to the way a geologist looking at the map relates them. The purpose of allowing the ontology to do the reasoning is so one can query large amounts of spatial information within the knowledge base quickly, meaningfully, and efficiently. This would essentially make the geologic map intelligent by using a description logic-based software reasoning system rather than the current 2D image and key (legend). By doing this, a geologist can locate information related to their study area without having to analyze multiple maps, make the necessary connections themselves, and keep track of all relevant information. Also, a non-geologist attempting to understand what is being displayed on a map could simply select a geological feature and the ontology would be able to show them the information for that feature as well as how it relates to all other features on the map.

Currently, ontologies related to geological mapping are limited. One such ontology was developed by Hwang et al., 2012 and is designed to take pre-existing maps of Korea, and the information related to these individual maps, and compile them into a single semantic map. Their ontology would also reason through different unit names and descriptions to establish standardized information for the units. This was useful in combining maps that were created in English or Korean, along with maps that have overlapping areas where the units may be labeled differently yet have the same age and composition. The limitations of this ontology are that it was specifically created for mapping Korea and only applies to current existing maps. Though it

does build a backbone of how to set up ontologies that can take existing maps and semantically combine them, the ontology is limited to one specific region of the world. Another drawback of this ontology is that it does not take into account geological structures or data points (i.e. measurements or sampling locations); it only considers composition, age, unit name, symbol, and correcting minor issues caused by having dissimilar labeling. Within the ontology, a new map cannot be created in real-time, it must first be completed before it can be entered into the ontology and be automatically semantically related to existing information. The Ontology of Geological Mapping hopes to solve these limitations by providing a more robust platform for giving semantics to geologic maps.

Although the ontology created by Hwang et al., 2012 is not the only ontology that references geological mapping, it is currently the only one that applies to geological mapping in the way that this new ontology approaches the subject. Several of these ontologies are actually created to only perform site sampling, such as the ontology by Brodaric (2004). Other works that reference ontologies for geological mapping are not ontologies, but models for analyzing data sets and geological data that relates to geologic maps. Though they may concern ontologies for geological mapping, none of the above works are actual ontologies for creating geologic maps.

My project, the Ontology of Geological Mapping, is designed to work in the opposite direction of the ontology developed by Hwang et al., 2012. Instead of using pre-existing maps, and the mass amounts of information related to each individual map, and trying to input them into a knowledge base that will then create a semantic map, this ontology is designed so any map created is initially a semantic map, where all of the information about and within the map is already connected to all other parts of the map. Having this information within the knowledge base provides existing data that subsequent maps created using this ontology can be immediately

related to. This would, in a sense, enable future maps to be both standardized amongst one another and semantically related to one another. In addition, this new ontology could operate in all regions of the world and would only require minor recoding for special information that is specific to a given region.

Classical geological mapping will most likely remain as the standard form of mapping in the near future. This is due to instances when technology is limited in availability to an area of study or the device building a map gets damaged and an individual must revert back to making the classical map. In these situations, using the backbone of the ontology created by Hwang et al., 2012 to transform the maps into semantic ones would be beneficial. Though as technology becomes increasingly available and devices become better suited for field operation, this new ontology for geological mapping becomes more useful for the creation of future geological maps. This is due to its ability to store complex information that an individual can access and retrieve swiftly and effectively. The information is also semantic, so any piece of data is already connected in such a way that it can reason through its connection to any and all other pieces of data. This is far beyond what the conventional paper and digital maps are able to effectively portray, causing them to become outdated.

1.2 Scope

This ontology for geological mapping is designed for macro-scale mapping of lithostratigraphic units (from the scale of a supergroup down to a member), igneous and metamorphic rocks, and unconformities. It allows the mapping of geologic structures including faults, folds, and zones (e.g., shear zone and mineralized zone). The ontology also allows for the identification and mapping of finer features within these major stratigraphical and structural units such as foliation, sedimentary structures, and lineation. Measuring and determining the

orientation of mappable features and assigning chronostratigraphic ages to lithic units, as well as modeling relationships within and among rock units and their parts are made possible within the ontology through properties.

The current version of this ontology does not model the age relationships of the map units or structures; it only allows selecting a chronostratigraphic unit and geologic time. In this version, the ontology defines the general types of rocks, minerals, and fossils. When more detailed ontologies, relating to rock types, fossils, and minerals, are constructed in the future, they will be imported and reused in future versions of this ontology. Moreover, the ontology does not model the geologic processes or mechanisms that deform rocks, such as folding, tilting, intrusion, and metamorphism; only the spatial relationships among structures and rock units are defined through properties.

2 BACKGROUND OF ONTOLOGY

Ontology, as it relates to this project, is a computer coding knowledge model. This code model is used to express real objects or abstract concepts and their relationships. The term is "borrowed from philosophy, where ontology is a systematic account of existence" (Gruber, 1995). According to Gruber (1995), an ontology should be able to adequately communicate the meaning of defined terms and relationships. It should be able to do this in a coherent and clear way and anticipate the uses of the vocabulary.

By defining and relating the objects in an area of study with a standard vocabulary, it will become possible to integrate data from researchers who use the ontology to encode their data. An ontology makes it possible for a machine to access and interpret the meaning of concepts (e.g., fault, formation) and the relations among them (intrudes, sits unconformably on). The reason for developing an ontology is to share an understanding of information among people or between software, allow "reuse of domain knowledge, make domain assumptions explicit, separate domain and operational knowledge, and analyze domain knowledge" (Noy and McGuinness, 2001). This is done by specifying the relationships among concepts based on domain knowledge (Pundt and Bishr, 2002).

Ontologies enable computers to gather and organize information from different data sources in a quick and efficient manner (Zhong et al., 2009). Accessing and using diverse information (lithological and age databases, maps, charts, articles, and documents) related to an area from different sources would allow an individual to more completely analyze the geologic history of a particular area. This may not be necessary for simple searches in the case of limited datasets but is useful and time-saving when there are massive amounts of data sources and

information. Having an ontology that is built by modeling related or equivalent conceptual terms makes it possible to search, gather, and organize data from multiple sources more efficiently.

Ontologies are models of a common vocabulary that express knowledge about a specific subject and the terms within that subject. In an ontology, this subject is called the domain, which is the same as the discipline or field of study such as mineralogy and stratigraphy. A major part of creating an ontology is defining the vocabulary in accordance with the known relationships between the main domain concepts. An example of this can be seen in the work done by Zhong et al. (2009), which models the concepts related to rock fractures. Geologic structures, layers, deformation mechanisms, and faults are some of the concepts within the domain of structural geology which translate into classes in the ontology. For example, the class 'Fault' is a type of geologic structure with its own properties and relationships to other classes (e.g., 'Fold', 'Formation'). 'Fault' is a subclass of the higher-level class 'Geologic Structure'. By subclassing, a general term/class is taken and specialized into more specific terms/classes, thus forming a class hierarchy. Classes in a hierarchy are related through the 'isA' relation, for example, an individual of the 'Fault' class is an individual member of the 'Geological Structure' class. In addition to subclassing, classes are related to each other through object properties. For instance, individuals of the 'Fault' class are related to the individual occurrences of the 'Faulting' class. The OWL expression of this statement would be the triple statement: 'Faulting forms Faults'. This style of statement is known as a subject-predicate-object (SPO) triple statement. The property 'forms' relates the specific deformation faulting process to a fault. Such statements provide a semantic connection between different individuals within the domain.

Utilizing ontologies to perform geoinformatics research allows geoscience data providers, semantic web designers, and software developers to work together on shared topics, build data

models, and create semantic web applications for representing and managing their knowledge (Reitsma et al., 2009).

3 METHODOLOGY

This ontology is built using the knowledge of geologic mapping and the ontology coding language Web Ontology Language (OWL). Protégé 5.0.0 beta is the software used to encode the OWL ontology. The development of the classes and properties used are based on universal definitions of features and concepts used in geology along with practical experience concerning geological mapping.

The purpose of creating an OWL ontology goes beyond just setting up a standard class and property hierarchy. According to Gruber (1995), "OWL enables data to be connected to each other based on the domain knowledge which is based on special logics, such as description logic". Furthermore, "OWL is a Semantic Web language designed to represent rich and complex knowledge about things, groups of things, and relations between things. OWL is a computational logic-based language such that knowledge expressed in OWL can be exploited by computer programs, e.g., to verify the consistency of that knowledge or to make implicit knowledge explicit" (Michael et al., 2012). The point of semantic modeling by ontologies is to allow the machine to, in a sense, understand and reason, through inference, by drawing new implicit conclusions from what is explicitly stated in the ontology through the RDF triple (SPO) statements. This allows the user to quickly and effectively enter one's data (values for the classes and properties) into the knowledge base through an interface that uses a given ontology. The user can also extract parts or all of the related knowledge through queries.

The ontology of the knowledge of geologic mapping involves the modeling of structural and stratigraphic principles that are taught in the classroom along with practical experiences such as field measurements and mapping techniques. For example, a fault plane has an orientation that is described by the values of some properties (e.g., strike and dip). Orientation is a kind of

measurement (which as a concept models as a class in this ontology) with a set of attributes (properties) like ID and location. Moreover, a fault (an instance of the 'Fault' class) has parts and related objects such as fault blocks, fault zone, and fault rocks. Movement of the hanging wall and the displacement of the fault blocks define the type of fault, e.g., dip-, oblique-, or strike-slip, and their sub-types, e.g., normal, thrust or reverse. Information about the concept of a fault, and the rocks that it displaces, can be modeled in the ontology as universal classes by explicitly and formally describing all the necessary and sufficient information about individual (i.e., real) faults that share the properties of the 'Fault' class. Relationships among faults and other structures (e.g., fold, foliation), and the way that faults cross-cut stratigraphic units, unconformities, and igneous bodies will be defined in the ontology as properties. The type of faults, structures, stratigraphic units, unconformities, and igneous rocks are defined as classes.

Protégé is a major software where OWL coding can be written. Its design allows for the user to build classes representing domain concepts (e.g., 'Fault', 'Dike', 'Rock') and the properties that relate these classes (e.g., displaces, intrudes) as in the following triple statements: 'Fault displaces Rock' or 'Dike intrudes Stratigraphic Unit'. The program also offers pre-built property types, graphical displays, semantic reasoners, and several plugin tools. Within Protégé, it is possible to import other useful ontologies and export an OWL ontology into several other coding languages that can be used in other software. This allows an individual in need of the database but running a program that cannot script or read OWL, to still be able to use the ontology.

The development of the OWL coding for the ontology for geological mapping is created using actual experience, both instructional and personal, of field mapping and teaching individuals the techniques of field mapping. This is combined with textbook explanations and definitions for geological objects and the information relevant to geological maps. The SPO

statements of the ontology are constructed by considering any and all features on a geological map and then identifying the relationships or connections that a feature has to itself and all other features on the map. These relationships or connections are then simplified to the three-word design of an SPO statement. This is repeated for all features on a map until every possible SPO statement is made. Following this, each feature is rechecked and multiple questions are asked to determine if there are any missing SPO statements. This design is then able to be tailored to specific mapping regions with limited editing.

By combining these SPO statements from every feature on a geological map and coding them into Protégé as OWL code, the ontology takes form. After all of the necessary SPO statements have been entered, the Ontology of Geological Mapping is complete and ready to be tested and specialized for a specific mapping region of the world.

4 DESIGN

This ontology is constructed by establishing classes and the properties that relate a class to another or back to itself. The class hierarchy is developed first in order to ensure complete coverage of the necessary scope of geological mapping. The property hierarchy is built in accordance with the existing classes, related by domain and range (see below). The results of these connections are the SPO statements that are essential to the ontology's utility.

4.1 Classes

The class hierarchy is developed by creating classes on broad geological mapping concepts that were then able to be separated, if need be, into more specific subclasses. From this, classes exist at different levels, with the top-level ones being the broadest (e.g., Rock) and each lower-level class becoming progressively more specific (e.g. Igneous Rock, Intrusive Igneous Rock, and Granite). Figure 4.1 shows the top-level classes within the ontology of geological mapping.

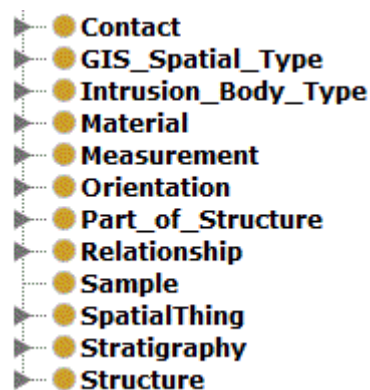


Figure 4.1 Screenshot showing the Top-Level Classes within the Geological Mapping Ontology

Arranged alphabetically, the first top-level class, 'Contact', is a broad term that defines the boundary between two or more geological features. Under the class 'Contact', there are

subclasses (Figure 4.2) that relate more specifically the contact type between specific types of geological features. The subclasses of the 'Contact' class can then be defined at lower levels such as the class 'Depositional Contact'; a contact between two lithostratigraphic layers. These contacts can further be classified as 'Conformable Contact' or 'Unconformable Contact', as shown. The hierarchy of the depositional contacts can still be expanded to very specific geological mapping contact types as shown in Figure 4.2.

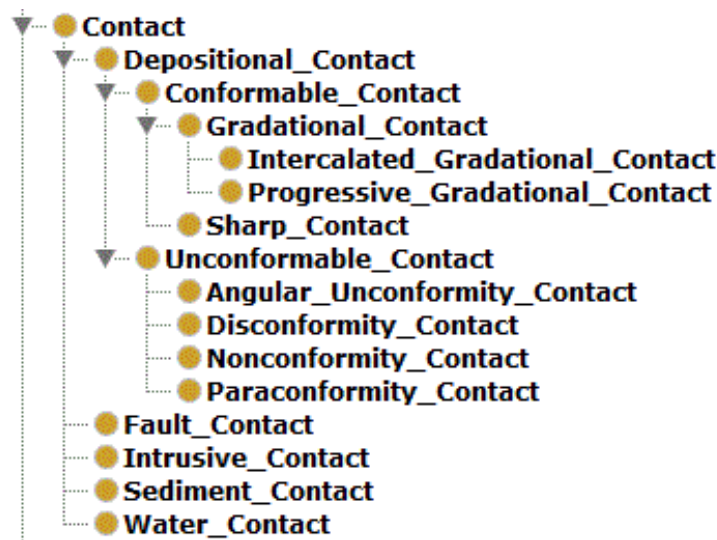


Figure 4.2 Screenshot of the Top-Level Class 'Contact' and all Subclasses

For the rest of the classes within this ontology, the same style of subclassing is applied with the exception of the top-level classes 'SpatialThing', as it is imported from an ontology built by Basic Geo, and 'Sample', which has no subclasses. Figure 4.3 shows the classes 'Measurement' and 'Orientation', along with their subclasses. Creating the two subclasses for 'Measurement' enables separation of measurements between structural and stratigraphic features. Similarly, the class 'Orientation' is subclassed to define the orientation of a geological feature as either linear or planar. 'GIS Spatial Type' has four subclasses representing the different types of

input features within ArcGIS (Figure 4.4). This ontology has not yet been integrated with ArcGIS, but how it could was created anyway in the expectation that the interface created would allow ArcGIS to run the ontology.

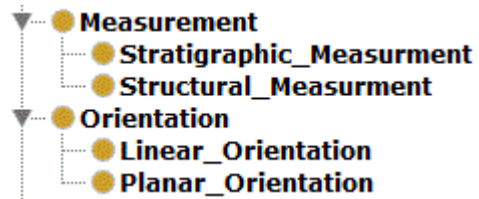


Figure 4.3 Screenshot of the Top-Level Classes 'Measurement' and 'Orientation' and all Subclasses

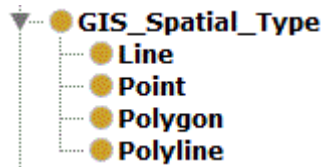


Figure 4.4 Screenshot of the Top-Level Class 'GIS Spatial Type' and all Subclasses

Crucial to the mapping process is determining the make-up of a geological unit, what the formation is actually made of, that appears on a geological map. Possible material(s), such as rocks, minerals, and fossils, fall under the top-level class 'Material' as subclasses. Although water is not considered a geological unit, it exists as a subclass due to the fact that bodies of water are still a necessary component of a geological map. This is also the case for sediment; it is usually necessary to show areas of unconsolidated or loose sediment deposits within a map that cover large areas. Subclasses of 'Rock' allow one to identify what type(s) of rock a geologic unit is comprised of. Besides 'Rock', the classes 'Fossil' and 'Mineral', and their subclasses, were established to allow for a more in-depth selection of elements that a geologic unit may contain, which can aid in the identification of the unit. 'Rock', 'Fossil', and 'Mineral' were subclassed using the basic level of identification. The taxonomy of the class 'Material', up to three levels of subclasses, can be seen in Figure 4.5.

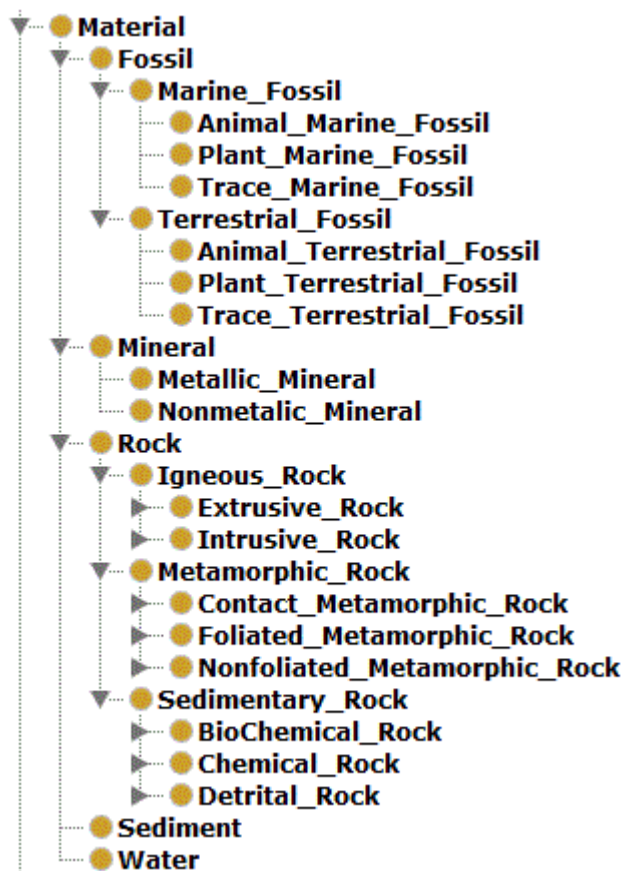


Figure 4.5 Screenshot of the Top-Level Class 'Material' up to three levels of Subclasses

Identifying the stratigraphy within an area is another major component to developing a geological map. By creating the top-level class 'Stratigraphy', and its respective subclasses, this information can be recorded within the ontology. Stratigraphy is comprised of two parts: age and stratigraphic unit. The class 'Chronostratigraphy' describes both the age period ('Chronostratigraphy Age') and the age type ('Chronostratigraphy Unit'). These two classes, and the multiple levels of subclasses they each contain, were created in accordance to the International Chronostratigraphic Chart designed by the International Commission on Stratigraphy. Subclasses for 'Chronostratigraphy Age' were made beginning with the broadest geologic age periods, i.e., Precambrian and Phanerozoic. Divisions of Phanerozoic exist as the

subclasses 'Cenozoic', 'Mesozoic', and 'Paleozoic', each of which can be broken down further. This method is continued until the geological time scale is reduced to the smallest geological time span (Age/Stage). In the same manner, the subclasses of 'Chronostratigraphy Unit' were created starting with the largest age type (Supereon). Subclasses of 'Chronostratigraphy Age' are instances of the respective 'Chronostratigraphy Unit' subclasses in which they occur. For the stratigraphic units, the class 'Lithostratigraphy' is created containing the subclass 'Lithostratigraphy Unit'. Using the terms for lithostratigraphy units (e.g., supergroup, group) the hierarchy is developed similar to 'Chronostratigraphy Unit'. The taxonomy of the class 'Stratigraphy' is expanded to four levels of subclasses in Figure 4.6.

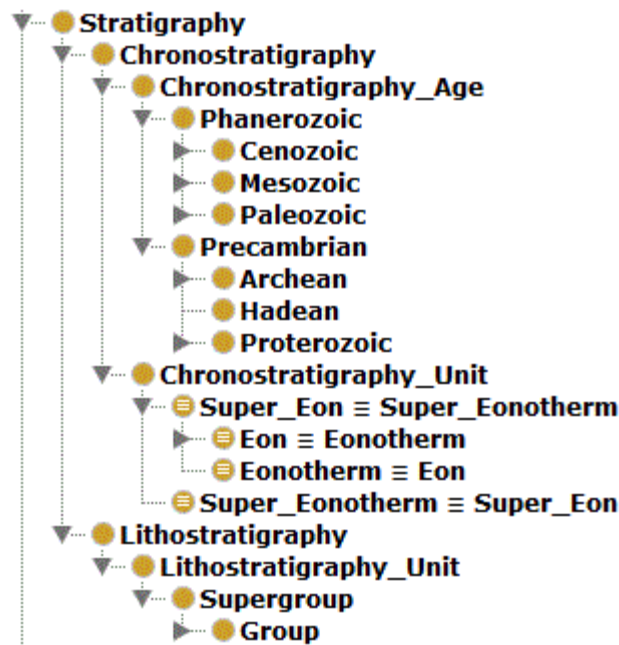


Figure 4.6 Screenshot of the Top-Level Class 'Stratigraphy' with both Subclasses 'Chronostratigraphy' and 'Lithostratigraphy' up to three levels of Subclasses

Just as there can be stratigraphic units on a map, intrusive units, such as dikes and batholiths, may also appear. These intrusive units make up the top-level class 'Intrusion Body Type', whose hierarchy can be seen in Figure 4.7.

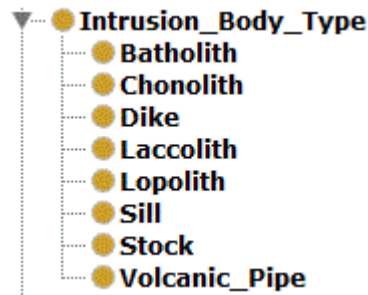


Figure 4.7 Screenshot of the Top-Level Class 'Intrusion Body Type' and all Subclasses

A geological map also has structural elements on it, which fall under the top-level class 'Structure'. These elements were first organized into three subclasses: 'Complex Structures' (structures that contain more than one part), 'Sedimentary Structures' (structures within sedimentary units), and 'Simple Structures' (structures that consist of one part). 'Sedimentary Structures' and 'Simple Structures' were divided into more specific subclasses on the basis of whether a structure is linear or planar. This process is continued until a class cannot be separated any further. 'Complex Structure' is divided into the three subclasses 'Fault', 'Fold', and 'Zone', each of which can continue to be expanded to very specific geological structures. The taxonomy for the class 'Structure', up to three levels of subclasses, can be seen in Figure 4.8. Some of the complex structures have specific parts that go with them, hence the creation of the top-level class 'Part of Structure'. This class includes 'Part of Fault' and 'Part of Fold', which contain subclasses that represent the specific parts a fault or fold may have. The classes that make up the taxonomy of 'Part of Structure' are shown in Figure 4.9.

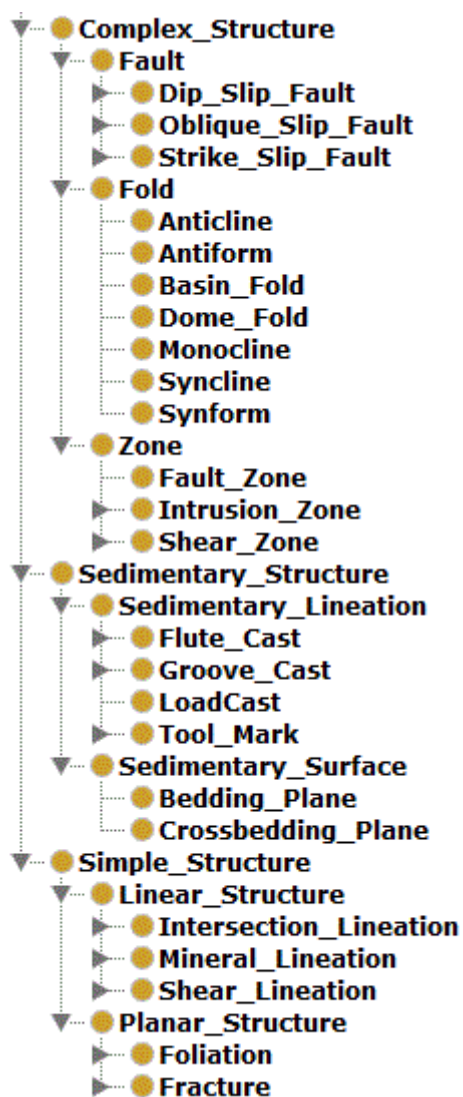


Figure 4.8 Screenshot of the Top-Level Class 'Structure' up to Three Levels of Subclasses

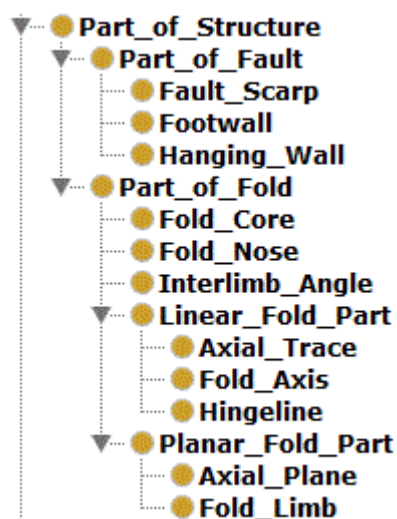


Figure 4.9 Screenshot of the Top-Level Class 'Part of Structure' and all Subclasses

The final top-level class is 'Relationship', which contains the different types of relationships any geological feature has to either another geological feature or itself. The first level of subclassing encompasses five still expandable classes. By alphabetical order, the first class is 'Containment Relationship', a class that contains subclasses that distinguish between the specific types of inclusions within a structural or stratigraphic unit. Beneath this is 'Geometrical Relationship', whose subclasses relate the orientation, movement amount, and shape of geologic units and structures. 'Intrusive Relationship' is the third class, and is divided into the subclasses 'Concordant' and 'Discordant' in order to select how an intrusive body relates to a stratigraphic unit. Under this is 'Spatial Relationship', a class divided into subclasses based on the directional movement of fault parts and the lateral extent of units. The subclasses of 'Topological Relationship' describe the type of adjacency a unit or intrusion has to another unit or intrusion, as well as what type of overlap a unit has based on whether the overlap is depositional or structural. Taxonomy for the class 'Relationship' can be seen, up to three levels of subclasses, in Figure 4.10.

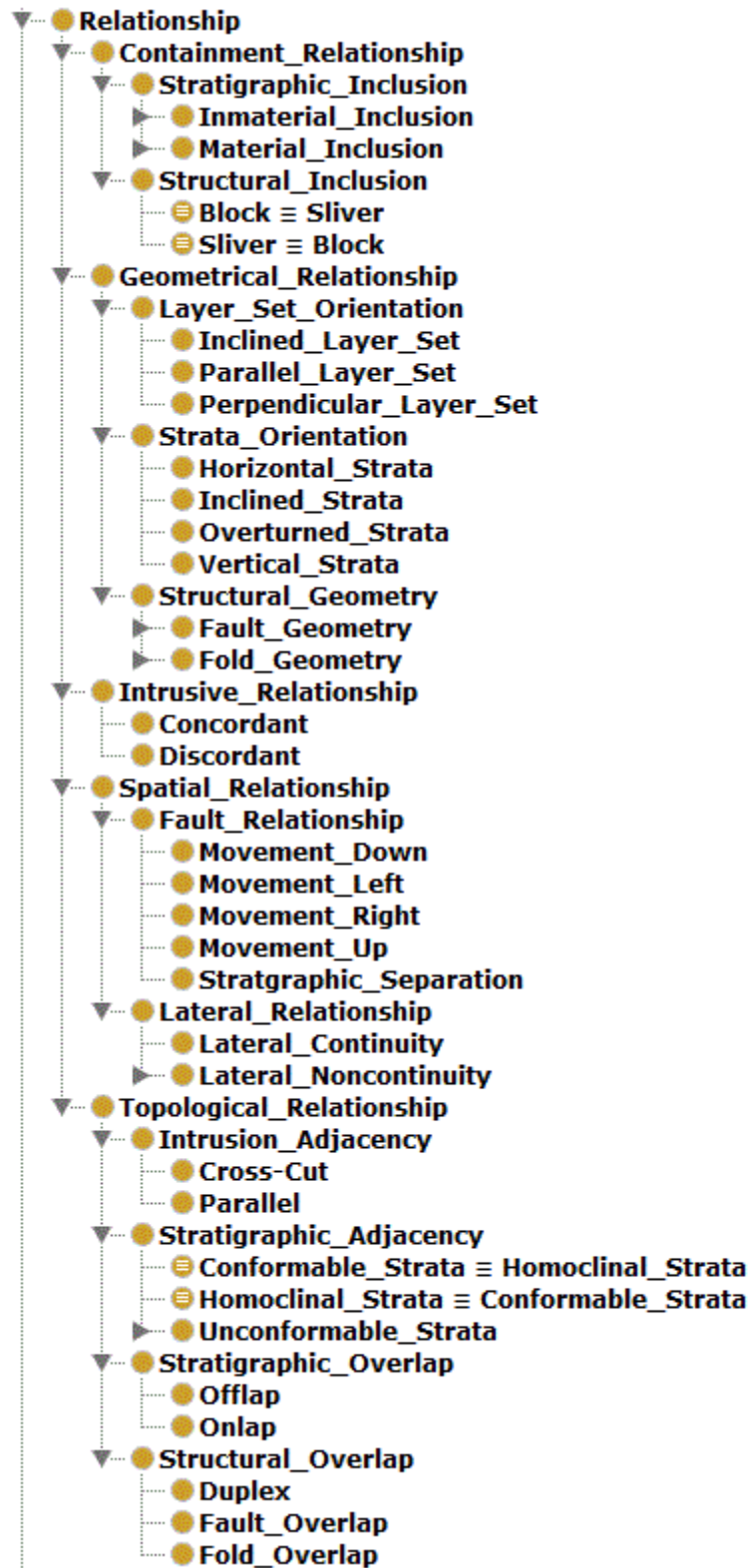


Figure 4.10 Screenshot of the Top-Level Class 'Relationship' up to three levels of Subclasses

Now that all the classes have been developed and organized into their respective individual hierarchies, the full class hierarchy for this ontology is complete and contains all the features and relationships that a standard geological map is comprised of. It is also arranged in a manner so it is easy to navigate to where additional classes should be implemented within the ontology if they are needed for a specific region being mapped.

4.2 Properties

Properties are classified in two separate hierarchies; data properties and object properties. Data properties relate a class to a datatype such as a literal, with the class as the domain and datatype as the range for the property. These properties are used for classes that contain collected data or explicit information that must be recorded manually such as measurements or observations (e.g., as text or date). Object properties relate one class to another, the source class being the domain and the target class the range for the property. Both of these hierarchies were developed similar to the method of the class hierarchy, though in this case a specific property (e.g., dip-slip) is known as the subproperty of the more general property (e.g., displacement).

The data properties were created considering classes that require an individual to enter information gathered in the field in order for the class to have a use. This information could be measurement values like strike and dip, or unit information such as the unit's name. The hierarchy of the data properties can be seen in Figure 4.11. Within the hierarchy, the data properties have top-level properties that are general terms. For example, the top-level property 'faultDisplacement' has several subproperties with domains that hold for a specific class and ranges that have literal values collected in the field about a specific object. For example, the 'dipSeparation' property holds for the 'Dip Separation' domain class and has an 'xsd:string' range.

This range of 'xsd:string' allows for an individual to input the actual value of dip separation that a fault in the mapping area has.

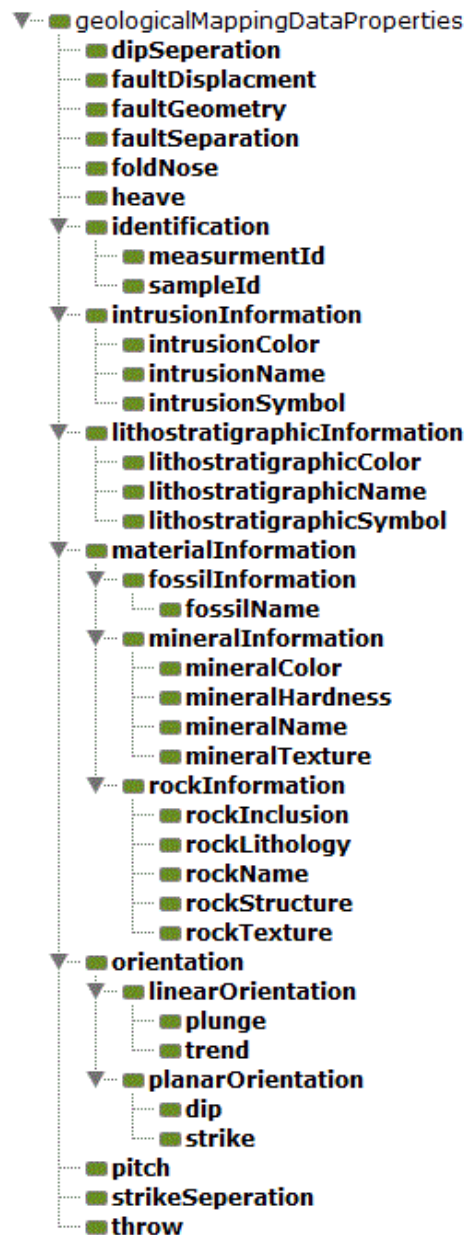


Figure 4.11 Screenshot of all the Data Properties within the Geological Mapping Ontology

Object properties were developed by reviewing every eligible class and identifying all geologic relationships. The hierarchy is developed in the same manner as the hierarchy of data properties, creating subproperties when possible. In this method, the top object type properties

are general terms for the more specific subproperties lower in the hierarchy. The majority of the object properties that relate classes together are based on the property design 'hasX', where X is replaced with the target class for the property such as the property 'hasFaultContact'. An example of this property used in this ontology is the SPO triple statement: 'Formation hasFaultContact Fault_Contact', which describes the fault contact for a formation. After creating the specific 'hasX' property, the inverse property is established with the format 'xOf'. The inverse property causes the domain and range to be switched so that the inverse of the SPO statement above now reads: 'Fault_Contact faultContactOf Formation'. An exception to this type of object property is the top-level property 'relativeAge', which has the two subproperties 'youngerThan' and 'olderThan'. These object properties are still inverses of each other but instead of stating what something has they show the age relationships between two geologic features (units, structures). Both of these object properties are transitive properties; if A is older than B, and B is older than C, then A is older than C. The hierarchy of object properties can be seen in Figure 4.12.



Figure 4.12 Screenshot of all the Object Properties within the Geological Mapping Ontology

Both the data and object property hierarchies were developed in a similar way as the class hierarchy. All properties needed for completing the SPO statements within geological mapping were created and then categorically combined as subproperties to develop their respective property hierarchies. Like the class hierarchy, the data and object property hierarchies have been organized so if a unique property is needed for a specific mapping region it is easy to locate where in the hierarchy that property belongs.

4.3 OntoGraf

OntoGraf is a plugin within Protégé that provides a visual display of the ontology by explicitly showing the properties and the classes or literals that they connect to. It allows to show a selected class, and its subclasses, at several levels. These newly displayed classes can then also be expanded to show the same. Properties that relate one class to another are shown as colored lines with an arrow pointing from the domain to the range of the property. Beside the graph is a key that explains the property types with colored lines. A few examples of OntoGraf can be seen in Figure 4.13 for the properties that hold for the 'Intrusion Body Type' class, and Figure 4.14 for the properties that hold for 'Lithostratigraphy Unit' class.

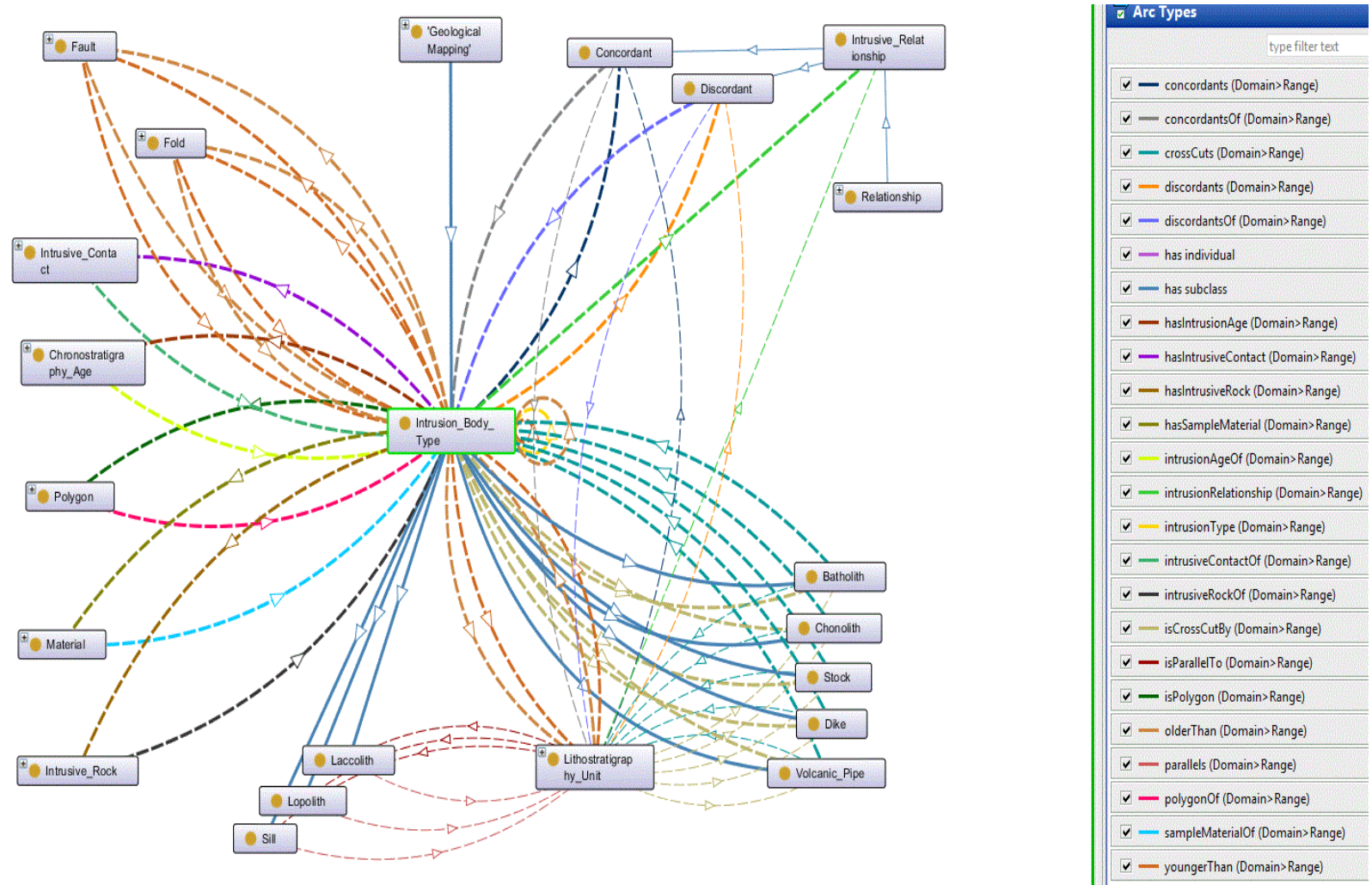


Figure 4.13 OntoGraf display of the properties that hold for the Class 'Intrusive Body Type'

5 DISCUSSION

The Ontology of Geological Mapping is designed and developed to provide a template for a knowledge base that will store data related to future geological maps. This is in contrast to the previous geological map ontology design by Hwang et al., 2012 that took pre-existing maps and their data and converted them into a knowledge base. The Ontology of Geological Mapping is also able to contain information that the other cannot, such as the relationships within and between geological features on a map. For this new ontology to become usable it requires building an interface that would allow a user (a mapper) to enter geologic map data from a specific area into a triple store (knowledge base), which is structured according to the ontology. Once this interface is developed, information can then be added to the knowledge base. This will both check for any holes in the ontology that need to be fixed and enable geological maps to have semantic reasoning within them.

The Ontology of Geological Mapping was built by formally describing all the necessary and sufficient characteristics and relations between geologic map elements (e.g., units, structures). The relationships between and within groups were established by working from the highest level to the lowest. The collection of these classifications and relationships exists as the class hierarchy in the ontology. Once all classes were established, properties were defined and related to the classes to provide semantics based on the domain knowledge. The data type properties were established to capture the values for specific map elements such as the name, symbol, and age of a specific lithostratigraphic unit. The object type properties were created to model the interrelationships among the instances of the same or different classes, for example, between a formation and another formation, a fault and rock unit, or a dike and an unconformity.

To further enhance reasoning through inference, the properties that relate the classes were also logically classified based on whether they were symmetric, inverse, transitive, or other types. Classes were also classified as disjoint with other classes if they could not share the same instances (e.g., solid and liquid).

This version of the ontology for geological mapping includes all the classes and properties necessary for a user in the field to build a logic-based geological map capable of reasoning through OWL's inference capabilities. For example, if a specific contact on the map is a thrust fault or unconformable, the ontology would infer that the thrust units are older than the fault and that the overthrust units, or the unconformable units, are younger than the units beneath the unconformity. 2D paper geological maps do not have such inference capabilities. Geologists themselves must use their own knowledge to draw implicit information from the map elements that are explicitly shown on the map. Thus, the main purpose of building this ontology is to enable geological maps to be created where the map elements are capable of relaying information in queries about what they are and how they relate to other elements on the map. This type of map is considerably more useful to a user than the standard paper or digital map of static points, lines, polygons, labels, and key. Semantic-aware geological maps built with this ontology, 'know' for example, that a mineralized zone along an intrusion is related to the intrusion; a foliation parallel to the axial plane of a fold may have formed with the fold; a dike cutting a fold which is overlain by an unconformity is younger than the fold yet older than the unconformity. Such reasonings and inferences cannot be made with the current paper and GIS digital maps without a geologist.

With all of the classes and properties related in this way, a geological map created using this ontology now enables all elements of the map to have semantic meaning to all other related

elements. All of this information would also be stored in a knowledge base, where it can be quickly related to any other relevant information such as an adjacent map. By having the information stored within the knowledge base, highly informative queries could be asked to identify complex information that an individual would like to know, for example, the command: "Locate all northwest dipping normal faults within the Montana area older than the Lower Devonian". Being able to find such complex information for a given area would permit an individual to discover geological information relevant to their study in a more quick and efficient manner than the current method of analyzing each map and its related write up individually.

The difference between this ontology and the previous geological mapping ontology (Hwang et al., 2012) is the approach that is taken to get the maps into a knowledge base along with when the map is created in relation to the knowledge base. In the ontology by Hwang et al., 2012, maps are first created and then entered into the ontology in order to develop the knowledge base. In effect, the individual maps are able to be combined to create a larger map of the Korea area and acquire semantic meaning. For the design of the Ontology of Geological Mapping, the ontology was built first. This way, a new map is instantly given semantic meaning and populates the knowledge base, allowing subsequent maps to have the ability to be immediately related to information already existing within the knowledge base.

Ontologies, like any software artifact, require update over time. In its current version, the Ontology of Geological Mapping is not capable of importing other ontologies. This can later be modified so that the ontology is able to reuse existing ontologies of geologic age and petrology. The two underdeveloped areas in this ontology concern the ages and material(s) of the geologic units. As previously stated, the materials were only developed at a basic level, and the ages only allow for selecting an age, not the relationships they have to one another. For example, the

current version does not include all types of rock that could apply to a rock unit (e.g., basalt, granodiorite). It also does not 'know' the relative ages of the geologic time elements, for example, that Cretaceous is younger than Permian. These issues can be eliminated in the future through the reuse (importation) of existing ontologies. Another shortcoming in this work is that the ontology has not been tested with real map data from a specific geologic area, due to the requirement that the ontology must first be constructed before an interface can. This interface is needed before the actual testing of the ontology can be done. This is necessary in order to discover issues related to the class and property hierarchies. Updating these missing areas with more complete ontologies related specifically to them, creating an interface, and adding information to test for holes are the next steps in making this ontology usable for an individual.

This ontology for geological mapping is not the end solution, it is just one part of what is needed for geological maps to become more usable and possess semantic meaning. By combining the Ontology of Geological Mapping, which gives future maps semantic meaning, with previous ontologies, where old maps are given semantics, all geological maps can now be entered into a knowledge base that provides quick and efficient queries and organization of information. As the ontology stands now, it fulfills its individual purpose of providing a base where it is possible for newly created maps to be input into a knowledge base within the limitations stated previously.

6 CONCLUSIONS AND FUTURE WORK

6.1 Conclusions

The main purpose of this thesis research project was to create a basic ontology for geological mapping. The ontology is developed with the purpose of creating a usable tool to enable individuals in the field to create knowledge-based maps on which geological features 'are aware of their semantic meaning based on the OWL language's logic-based constructs. Protégé is the program utilized to construct the OWL code related to the geological mapping ontology. The steps taken to create this ontology, along with the reasons behind the design, have been explained in earlier chapters. By building this ontology, an interface can be constructed that would allow future geological maps to be more useful and have more meaning than the current paper and digital maps.

6.2 Future Work

The following points are areas that can be pursued to expand upon this thesis project in the future:

- Import and reuse classes and properties of other related ontologies in the ontology for geological mapping.
- Develop an interface for this ontology to allow users to directly type in (i.e., assign) values for the objects (geological features) and their properties in the field.
- Test the ontology with real data from a specific mapping area.
- Expand the class and property hierarchies in the ontology.

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APPENDIX: OWL CODE

```

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  xml:base="http://www.semanticweb.org/tylerboyd/geology/geologicalmapping"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:xml="http://www.w3.org/XML/1998/namespace"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
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  </Annotation>
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vocabulary for representing latitude, longitude and
altitude information in the WGS84 geodetic reference datum.
Version $Id: wgs84_pos.rdf,v 1.22 2009/04/20 15:00:30 timbl Exp $. See
http://www.w3.org/2003/01/geo/ for more details.</Literal>
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Geo Positioning: an RDF vocabulary</Literal>
  </Annotation>
  <Annotation>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
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Recent changes to this namespace:
$Log: wgs84_pos.rdf,v $
Revision 1.22 2009/04/20 15:00:30 timbl
Remove the time bits which have been deal with elsewhere eg in iCal.

```

Revision 1.21 2009/04/20 12:52:47 timbl
try again

Revision 1.20 2009/04/20 12:42:11 timbl
Add Event (edited ages ago and never checked in), and location (following discussion
<http://chatlogs.planetrdf.com/swig/2009-04-20#T12-36-09>)

Revision 1.19 2009/04/20 12:36:31 timbl
Add Event (edited ages ago and never checked in), and location (following discussion
<http://chatlogs.planetrdf.com/swig/2009-04-20#T12-36-09>)

Revision 1.18 2006/02/01 22:01:04 danbri
Clarified that lat and long are decimal degrees, and that alt is decimal metres about local
reference ellipsoid

Revision 1.17 2004/02/06 17:38:12 danbri
Fixed a bad commit screwup

Revision 1.15 2003/04/19 11:24:08 danbri
Fixed the typo even more.

Revision 1.14 2003/04/19 11:16:56 danbri
fixed a typo

Revision 1.13 2003/02/19 22:27:27 connolly
relaxed domain constraints on lat/long/alt from Point to SpatialThing

Revision 1.12 2003/01/12 01:41:41 danbri
Trying local copy of XSLT doc.

Revision 1.11 2003/01/12 01:20:18 danbri
added a link to morten's xslt rdfs viewer.

Revision 1.10 2003/01/11 18:56:49 danbri
Removed datatype range from lat and long properties, since they would
have required each occurrence of the property to mention the datatype.

Revision 1.9 2003/01/11 11:41:31 danbri
Another typo; repaired rdfs:Property to rdf:Property x4

Revision 1.8 2003/01/11 11:05:02 danbri
Added an rdfs:range for each lat/long/alt property,
<http://www.w3.org/2001/XMLSchema#float>

Revision 1.7 2003/01/10 20:25:16 danbri
Longer rdfs:comment for Point, trying to be Earth-centric and neutral about

coordinate system(s) at the same time. Feedback welcomed.

Revision 1.6 2003/01/10 20:18:30 danbri

Added CVS log comments into the RDF/XML as an rdfs:comment property of the vocabulary. Note that this is not common practice (but seems both harmless and potentially useful).

revision 1.5

date: 2003/01/10 20:14:31; author: danbri; state: Exp; lines: +16 -5

Updated schema:

Added a dc:date, added url for more info. Changed the rdfs:label of the namespace from gp to geo. Added a class Point, set as the rdfs:domain of each property. Added XML comment on the lat_long property suggesting that we might not need it (based on #rdfig commentary from implementors).

revision 1.4

date: 2003/01/10 20:01:07; author: danbri; state: Exp; lines: +6 -5

Fixed typo; several rdfs:about attributes are now rdf:about. Thanks to MortenF in #rdfig for catching this error.

revision 1.3

date: 2003/01/10 11:59:03; author: danbri; state: Exp; lines: +4 -3

fixed buglet in vocab, added more wgs links

revision 1.2

date: 2003/01/10 11:01:11; author: danbri; state: Exp; lines: +4 -4

Removed alt from the as-a-flat-string property, and switched from space separated to comma separated.

revision 1.1

date: 2003/01/10 10:53:23; author: danbri; state: Exp;

basic geo vocab

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/>
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"/>
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"/>
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"/>
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"/>
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nit"/>
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Slip_Fault"/>
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ault"/>
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Fault"/>
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/>
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/>
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Fault"/>

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/>
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_Fault"/>
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nit"/>
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nit"/>
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nit"/>
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nit"/>
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erSet"/>
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nit"/>

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/>
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e"/>
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>
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nit"/>
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"/>
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surement"/>
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nit"/>
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re"/>
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ration"/>
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ration"/>
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nit"/>
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/>
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ement"/>
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/>
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ement"/>
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ement"/>

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/>
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nit"/>
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>

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/>
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Of"/>
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n"/>
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IRI="http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Chronostratigraphy_
Age"/>
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p"/>
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e"/>
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p"/>

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>
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    <ObjectPropertyDomain>

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    >
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  <ObjectPropertyDomain>
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IRI="http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sediment_Contact"/>
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/>
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Of"/>
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eOf"/>
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Age"/>
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erialOf"/>
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    <ObjectPropertyDomain>
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erialOf"/>
    <Class
IRI="http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Metamorphic_Rock"
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/>
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entDownOf"/>
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ault"/>
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Fault"/>
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entUpOf"/>
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Fault"/>
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_Fault"/>
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t"/>
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Age"/>
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"/>
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le"/>
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nOrientation"/>
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On_Orientation"/>
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entDown"/>
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ntUp"/>
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vementDown"/>

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Age"/>
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"/>
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ty"/>
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cAge"/>

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/>
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cMaterial"/>
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cMaterial"/>
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cUnitType"/>

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nit"/>
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nit"/>
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"/>

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surement"/>
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rment"/>
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ration"/>
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ion"/>
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ement"/>
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ent"/>
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/>
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nit"/>
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/>
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nit"/>
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nit"/>
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Of"/>
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nit"/>

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IRI="http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intrusion_Body_Type"/>
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/>
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/>
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  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 174.1Ma (+-1.0Ma) to 170.3Ma (+-1.4Ma)</Literal>
</AnnotationAssertion>
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  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Aeronian</IRI>
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with an age of 440.8Ma (+-1.2Ma) to 438.5Ma (+-1.1Ma)</Literal>
</AnnotationAssertion>
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  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Age</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Millions
of years</Literal>
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 with an age of ~113.0Ma to 100.5Ma</Literal>
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<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Angular_Unconformity_Contact</IRI>
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 unconformity contact where horizontally parallel strata of sedimentary rock are deposited on
 tilted and eroded layers, producing an angular discordance with the overlying horizontal
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 with an age of ~125.0Ma to ~113.0Ma</Literal>
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```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Aquitanian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 23.03Ma to 20.44</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Archean</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Eon
with an age of 4000Ma to 2500Ma</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Artinskian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 290.1Ma (+-0.26Ma) to 283.5Ma (+-0.6Ma)</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Asselian</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 298.9Ma (+-0.15Ma) to 295.0Ma (+-0.18Ma)</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Asymmetric_Crenul
ation</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Crenulation cleavages are formed asymetrical</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Asymmetrical_Flute
_Cast</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Casdt
formed on top of a neighboring cast, and, therefore, covers half or more of the underlying flute.
As the flutes continue to build outward in a step-like fashion and cut into each other, they get
smaller and shallower.</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Axial_Plane</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">= axial surface</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Axial_Plane</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A planar axial surface, not necessarily parallel to the bisecting surface</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Axial_Plane_Cleavage</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Cleavage that is subparallel to the axial surface of a fold. The cleavage must have formed during the process of folding. Also called axial planar cleavage</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Axial_Trace</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The theoretical surface connecting the hinge points across a fold</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
 <IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Bajocian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 170.3Ma (+-1.4Ma) to 168.3Ma (+-1.3Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Baked_Zone</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">An intrusive zone that has baked the intruded rock</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Barremian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~129.4Ma to ~125.0Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Bartonian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 41.3Ma to 38.0Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Bashkirian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 323.2Ma (+0.4Ma) to 315.2Ma (+0.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Basin_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Bowl-shaped geometry with layers dipping in every direction towards a center point</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Batholith</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A large irregular discordant intrusion</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Bathonian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 168.3Ma (+1.3Ma) to 166.1Ma (+1.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Bed</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A bed is a lithologically distinct layer within a member or formation and is the smallest recognisable stratigraphic unit. These are not normally named, but may be in the case of a marker horizon.</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Berriasian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of ~145.0Ma to ~139.8Ma</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Boudin</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Is a
geological term for structures formed by extension where a rigid tabular body is stretched and
deformed amidst less competent surroundings</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Boudin_Asymmetri
c_Shear_Fracture</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Boudin
formed by asymmetric shear</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Boudin_Extension_
Fracture</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Boudin
formed by extension</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Boudin_Symmetric
_Shear_Fracture</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Boudin
formed by symmetric shear</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Box_Fold</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold
with tow axial planes and two hinge zones that formed simultaneously</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Burdigalian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 20.44Ma to 15.97Ma</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Calabrian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 1.80Ma to 0.781Ma</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Callovia></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 166.1Ma (+-1.2Ma) to 163.5Ma (+-1.0Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cambrian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
 with an age of 541.0Ma (+-1.0Ma) to 485.4Ma (+-1.9Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Campanian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 83.6Ma (+-0.2Ma) to 72.1Ma (+-0.2Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Capitanian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 265.1Ma (+-0.4Ma) to 259.8Ma (+-0.4Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Carboniferous></IRI>
 >

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 358.9Ma (+-0.4Ma) to 298.9Ma (+-0.15Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Carnian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~237Ma to ~227Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cataclasis</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Brittle crushing of grains (grain size reduction), accompanied by frictional sliding and rotation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cataclastic_Shear_Zone</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Shear zone consisting of Cataclastic deformation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cenomanian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 100.5Ma to 93.9Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cenozoic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with an age of 66.0Ma to Present</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Changhsingian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 254.14Ma (+-0.07Ma) to 252.17Ma (+-0.06Ma)</Literal>

```

</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Chattian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 28.1Ma to 23.03Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Chevron_Fold</IRI>
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold
with angular hinge and where the axial surface forms more or less perpendicular to the principal
stress 1</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Chonolith</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">An
irregularly-shaped intrusion with a demonstrable base</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Chronostratigraphy
</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The age
of the fock</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Chronostratigraphy_
Age</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The age
of a geologic unit of interest</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Chronostratigraphy_
Unit</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
Chronostratigraphic Unit type associated with a specific Chronostratigraphic Age</Literal>

```

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cisuralian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 298.9Ma (+0.15Ma) to 272.3Ma (+0.5Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Class_1</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Isogons converge toward fold interior. Inside arc tighter than outside</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Class_1A</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Hinge thinner than limbs</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Class_1B</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Constant thickness</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Class_1C</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Hinge thicker than limbs</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Class_2</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Isogons parallel. Inside and outside arcs identical</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Class_3</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Isogons diverge toward fold interior. Outside arc tighter</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Claymmian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 1600Ma to 1400Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Close_Interlimb_Angle</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Interlimb angle 70 to 30 degrees</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Comet_Shaped_Flute_Cast</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Cast has a sharply pointed bulbous end, but the shallower end shows no stable continuous path.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Compaction_Cleavage</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Cleavage formed by lithostatic compaction of sediments onto sedimentary rock</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Complex_Structure</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Large scale geologic structure on which fundamental structures can be found</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Concentric_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Folds whose well-rounded arcs approximate half-circles so that limbs and hinges are inseparable)or they can be said to consist of hinges only</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Concordant</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Intrusion parallel to bedding plane</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Conformable_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A depositional contact that is conformable between the rock bodies</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Conformable_Strata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Strata deposited in a continuous sequence, and typically having the same direction of stratification</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Coniacian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 89.8Ma (+0.3Ma) to 86.3Ma (+0.5Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The boundary between geological units or features</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Containment_Relationship</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationship due to containment</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Contraction_Fracture</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fracture due to contraction</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Crenulation_Cleavage</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Cleavage formed by microfolding at low metamorphic conditions of phyllosilicate-rich and well-foliated rocks</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Crenulation_Lineation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Small scale rippling of an earlier foliation (and occasionally bedding) produces an obvious linear array parallel to the closely spaced and regular wrinkle hinges. The crenulation lineation is the fabric element parallel to the tightly spaced hinges</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cretaceous</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of ~145.0Ma to 66.0Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cross-Cut</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The intrusion cuts through the stratigraphic unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Crossbedding_Plane</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Layering within one or more beds in a series of rock strata that does not run parallel to the plane of stratification</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cryogenian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 850Ma to ~635Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Cylindrical_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by a fold's cylindricity producing a cylindrical fold</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Danian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 66.0Ma to 61.6Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Dapingian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 470.0Ma (1.4Ma) to 467.3Ma (+-1.1Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Darriwilian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 467.3Ma (+-1.1Ma) to 458.4Ma (+-0.9Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Depositional_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The boundary between depositional units</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Devonian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 419.2Ma (+-3.2) to 358.9Ma (+-0.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Dextral_Slip_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Strike-slip fault with movement right related to the point of reference</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Dike></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A relatively narrow tabular discordant body that cuts across rock layers</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Dip_Separation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The true amount of separation caused by a fault in the dip direction</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Dip_Slip_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault with the slip vector oriented along the dip direction of the fault surface, i.e. a perfectly reverse or normal fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Disconformity_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Is an unconformity contact between parallel layers of sedimentary rocks which represents a period of erosion or non-deposition</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Discordant></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Intrusion cross-cutting bedding plane</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Discrete_Crenulation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">n Cleavage: very narrow cleavage domains sharply truncate microlithons. This type tends to form in finer-grained slates</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Dome_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Bowl-shaped geometry with layers dipping in every direction from a summit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Drag_Mark</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Mark are narrower and deeper than slide marks, but retain the same length. Drag marks create a groove or striation caused by a physically hard object like a rock or shell.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Durmian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~504.5Ma to ~500.5Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Ectasian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 1400Ma to 1200Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Ediacaran</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of ~635Ma to ~541.0Ma (+-1.0Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Eifelian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 393.3Ma (+-1.2Ma) to 387.7Ma (+-0.8Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Emsian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 407.6Ma (+-2.6Ma) to 393.3Ma (+-1.2Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Eoarchean</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with
an age of 4000Ma to 3600Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Eocene</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 56.0Ma to 33.9Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Eon</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major
division of geological time made up of two or more Eras</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Eon</IRI>

```

```

    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Half a
billion years or more</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Eonotherm</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major
division of geological time made up of two or more Erathems</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
    <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Epoch</IRI>
    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major
division of geological time made up of two or more Ages</Literal>
    </AnnotationAssertion>
    <AnnotationAssertion>
      <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
      <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Epoch</IRI>
      <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Tens of
millions of years</Literal>
      </AnnotationAssertion>
      <AnnotationAssertion>
        <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
        <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Era</IRI>
        <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major
division of geological time made up of two or more Periods</Literal>
        </AnnotationAssertion>
        <AnnotationAssertion>
          <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
          <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Era</IRI>
          <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Several
hundred million years</Literal>
          </AnnotationAssertion>
          <AnnotationAssertion>
            <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
            <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Erathem</IRI>
            <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major
division of geological time made up of two or more Systems</Literal>
            </AnnotationAssertion>
            <AnnotationAssertion>
              <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Extension_Fracture
</IRI>

```

```

    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fracture
    due to extension</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Facies_Change</IRI
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
  stratigraphic unit that is not laterally continuous due to facies changes</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Facies_Inclusion</IRI
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Facies
  that are an inclusion within a stratigraphic unit</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Famennian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
  with an age of 372.2Ma (+-1.6Ma) to 358.9Ma (+-0.4Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Contact</IRI
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
  boundary between the hanging and foot wall or between to fault walls</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Displacement
</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
  ns#PlainLiteral">Geometry relationships caused by a fault displacment</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Geometry</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry related to faults</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Overlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">over lap related to fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Relationship</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships with a fault structure</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Scarp</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Is a small step or offset on the ground surface where one side of a fault has moved vertically with respect to the other</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Separation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by a fault separation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Shift</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A stratigraphic unit that is not laterally continuous due to faulting</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fault_Zone</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The central and most strained part of a fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Flattening_Fabric</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Foliation due to the flattening of an object</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Floian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 477.7Ma (+-1.4Ma) to 470.0Ma (+-1.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Flow_Sheet</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Foliation left on a igneous flow sheet</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Flute_Cast</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Scours dug into soft, fine sediment which typically get filled by an overlying bed</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Axis</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The straight hinge line of a cylindrical fold</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Core</IRI>

```

    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
center of the fold</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Cylindricity</
IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Geometry relationships caused by a fold&apos;s cylindricity</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Geometry</IR
I>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Geometry related to folds</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Interlimb_Ang
le</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">classification of fold based on how tight the interlimb angle is</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Isogon</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">classification of layer types based on dip isogons</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Limb</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Either of
the sides of a geological fold or the part of a fold the is curved away from the center or from the
standard orientation of the surrounding rock unit</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Nose</IRI>

```

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The U-shaped trace of bending made by the intersection of a plunging fold with a gently dipping surface</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Overlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">overlap related to fold</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Plunge_Line</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The linear line that is the center of to fold limbs</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Shape</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by a fold's shape</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Symmetry</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by a fold's symmetry</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fold_Type_Based_On_Orientation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by a fold type based on orientation of axial surface and hinge line</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Foliation</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
tectonic planar structure formed in the plastic regime</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Footwall</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
surface underneath a non-vertical fault</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Formation</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Formations are the primary units used in the subdivision of a sequence and may
vary in scale from tens of centimetres to kilometres. They should be distinct lithologically from
other formations, although the boundaries do not need to be sharp. To be formally recognised, a
formation must have sufficient extent to be useful in mapping an area.</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fortunian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of ~541.1Ma (+-1.0Ma) to ~529Ma</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fossil_Inclusion</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fossils
that are an inclusion within a stratigraphic unit</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Fracture</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Is any
separation in a geologic formation, such as a joint or a fault that divides the rock into two or
more pieces</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Frasnian</IRI>

```

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 382.7Ma (+-1.6Ma) to 372.2Ma (+-1.6Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Furongian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of ~497Ma to 485.4Ma (+-1.9Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Gelasian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 2.58Ma to 1.80Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Gentle_Interlimb_Angle</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Interlimb angle 180 to 120 degrees</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Geometrical_Relationship</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationship due to geometrical information</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Givetian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 387.7Ma (+-0.8Ma) to 382.7Ma (+-1.6Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Gneissic_Foliation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Foliation made from banding or layering where individual bands consist of

different minerals, often representing transposed and flatened dikes or other primary structures</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Gorstian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 427.4Ma (+-0.5Ma) to 425.6Ma (+-0.9Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Gradational_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A depositionally conformable contact that has a gradation between the rock bodies</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Groove_Cast</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Are straight parallel ridges that are raised a few millimeters from the bedding surface</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Groove_Lineation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Lineation defined by linear tracks or grooves carved out on a slip surface by asperities on one of the walls</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Group</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A group is an aggregate of two or more formations that share certain lithological characteristics. A group may be made up of different formations in different geographical areas and individual formations may appear in more than one group.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Guadalupian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 272.3Ma (+-0.5Ma) to 259.8Ma (+-0.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Guzhangian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~500.5Ma to ~497Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Gzhelian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 303.7Ma (+-0.1Ma) to 298.9Ma (+-0.15Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Hadean</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Eon with an age of 4600Ma to 4000Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Hanging_Wall</IRI>
>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The surface above a non-vertical fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Hauterivian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~132.9Ma to ~129.4Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Heave</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The horizontal component of the dip separation of a fault. Equal to the horizontal component of the true displacement vector for a dip-slip fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Hettangian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 201.3Ma (+0.2Ma) to 199.3Ma (+0.3Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Hingeline></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The line
 of maximum curvature, i.e. the line defined by consecutive hinge points on a folded surface.
 Linear and known as the fold axis for cylindrical folds</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Hirnantian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 445.2Ma (+1.4Ma) to 443.4Ma (+1.5Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Holocene></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
 with an age of 0.0117Ma to Present</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Homerian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 430.5Ma (+0.7Ma) to 427.4Ma (+0.5Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Homoclinal_Strata</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The two
 units exist parallel to one another</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Horizontal_Inclined_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold with inclined axial surface and horizontal hinge line</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Horizontal_Strata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Structure causing strata to be horizontally oriented</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Inclined_Layer_Set</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by the deformation of a set of layers producing an oblique set of layers</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Inclined_Strata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Structure causing strata to be obliquely oriented</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Induan></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 252.17Ma (+-0.06Ma) to 251.2Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intercalate></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Insert unit within or between layers of another unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Interlimb_Angle</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The internal angle between the two limbs of a fold</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intersection_Lineation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Structural lineations caused by general deformation to a feature within rock unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intrusion_Adjacency</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The relationship between an intrusion and its position to another stratigraphic unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intrusion_Body_Type</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Intrusive body types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intrusion_Zone</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The area associated with the intrusion and the material it deformed on contact with</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intrusive_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The boundary between an intrusion and a unit</Literal>

```

</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intrusive_Cut</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
stratigraphic unit that is not laterally continuous due to an intrusion</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Intrusive_Relations
hip</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Relationships with a stratigraphic unit and an intrusion</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Isoclinal_Interlimb_
Angle</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Interlimb angle ~0 degrees</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Jiangshanian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of ~494Ma to ~489.5Ma</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Joint_Fracture</IRI>
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fracture
due to jointing</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Jurassic</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 201.3Ma (+0.2Ma) to 145.0Ma</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>

```

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Kasimovian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 307.0Ma (+0.1Ma) to 303.7Ma (+-0.1Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Katian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 453.0Ma (+0.7Ma) to 445.2Ma (+-1.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Kimmeridgian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 157.3Ma (+-1.0Ma) to 152.1Ma (+-0.9Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Kink_Band</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold emphasizing the fact that one limb of such asymmetrical folds commonly defines bands of anomalous dips</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Kungurian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 283.5Ma (+0.6Ma) to 272.3Ma (+-0.5Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Laccolith></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Concordant body with roughly flat base and convex top, usually with a feeder pipe below</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Laddinian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of ~242Ma to ~237Ma</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Langhian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 15.97Ma to 13.82Ma</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lateral_Continuity<
/IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
stratigraphic unit that is laterally continuous</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lateral_Noncontinu
ity</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
stratigraphic unit that is not laterally continuous</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lateral_Relationshi
p</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Relationships with a stratigraphic unit and its lateral extent</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Layer_Set_Orientati
on</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Geometry orientation caused by the deformation of a set of layers</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Left_Lateral_Strike_Slip_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Strike-slip fault with movement left related to the point of reference</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Left_Slip_Normal_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Olique slip fault made from the mixture of a left lateral strike-slip fault and a normal fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Left_Slip_Reverse_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Olique slip fault made from the mixture of a left lateral strike-slip fault and a reverse fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Linear_Fold_Part</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold parts that are linear features</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Linear_Orientation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Orientation of a Linear feature</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Linear_Structure</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Simple linear structures formed in rock due to deformation</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#LithostratigraphicUnitTypeOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates a selected lithostratigraphic unit type to the lithostratigraphy</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lithostratigraphy</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
composition of a geologic unit of interest</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lithostratigraphy_Unit</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
lithostratigraphic unit type relating to a specific geologic unit of interest</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Llandovery</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 443.4Ma (+-1.5Ma) to 433.4Ma (+-0.8Ma)</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#LoadCast</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Are
secondary structures that are preserved as bulbous depressions on the base of a bed. They form
as dense, overlying sediment (usually sand) settles into less dense, water-saturated sediment
(usually mud) below.</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Location</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">the
geographical position of something</Literal>
  </AnnotationAssertion>
```

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lochkovian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 419.2Ma (+-3.2Ma) to 410.8Ma (+-2.8Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lopingian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 259.8Ma (+-0.4Ma) to 252.17Ma (+-0.06Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lopolith</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Concordant body with roughly flat top and a shallow convex base, may have a
feeder dike or pipe below</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lower_Cretaceous<
/IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of ~145.0Ma to 100.5Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lower_Devonian</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 419.2Ma (+-3.2Ma) to 393.3Ma (+-1.2Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lower_Jurassic</IR
I>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 201.3Ma (+-0.2Ma) to 174.1Ma (+-1.0Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
```


<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lower_Mississippian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 358.9Ma (+-0.4Ma) to 346.7Ma (+-0.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lower_Ordovician</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 485.4Ma (+-1.9Ma) to 470.0Ma (+-1.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lower_Pennsylvanian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 323.2Ma (+-0.4Ma) to 315.2Ma (+-0.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lower_Triassic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 252.17Ma (+-0.06Ma) to 247.2Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Ludfordian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 425.6Ma (+-0.9Ma) to 423.0Ma (+-2.3Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Ludlow</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 427.4Ma (+-0.5Ma) to 423.0Ma (+-2.3Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Lutetian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 47.8Ma to 41.3Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#MFold></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Symmetrical folds, typically folded occurring in the hinge zone of a larger fold</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Maastrichtian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 72.1Ma (+-0.2Ma) to 66.0Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Many_Axis</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold
 shapes with more than one fold axis</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Material></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">What
 rock and fossil the unit or sample is comprised of</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Measurement></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
 measurement take of a particular geologic feature of interest</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Member></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
 member is a named lithologically distinct part of a formation. Not all formations are subdivided
 in this way and even where they are recognized, they may only form part of the
 formation.</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mesoarchean</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with
an age of 3200Ma to 2800Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mesoproterozoic</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with
an age of 1600Ma to 1000Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mesozoic</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with
an age of 252.17Ma (+-0.06Ma) to 66.0Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Messinian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 7.246Ma to 5.333Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Middle_Devonian</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 393.3Ma (+-1.2Ma) to 382.7Ma (+-1.6Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Middle_Jurassic</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 174.1Ma (+-1.0Ma) to 163.5Ma (+-1.0Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
```

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Middle_Mississippian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 346.7Ma (+-0.4Ma) to 330.9Ma (+-0.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Middle_Ordovician</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 470.0Ma (+-1.4Ma) to 458.4Ma (+-0.9Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Middle_Pennsylvanian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 315.2Ma (+-0.2Ma) to 307.0Ma (+-0.1Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Middle_Pleistocene</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 0.126Ma to 0.0117Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Middle_Triassic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 247.2Ma to ~237Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Migmatite_Foliation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Foliation produced by compositional banding due to in-situ partial melting</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mineral_Fiber_Lineation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Lamination formed by growth of fibrous or elongated minerals on a surface or throughout a given volume of rock</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mineral_Lineation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Structural lamination to a mineral within a rock unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mineralization_Zone</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">An intrusive zone that has mineralized the intruded rock</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Miocene</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 23.03Ma to 5.333Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mississippian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 358.9Ma (+-0.4Ma) to 323.2Ma (+-0.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Monocline</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Sub-cylindrical fold with only one inclined limb (the other limb is the regionally horizontal layering)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Moscovian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 315.2Ma (+-0.2Ma) to 307.0Ma (+-0.1Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Movement_Down</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault part with a down movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Movement_Left</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault part with a left movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Movement_Right</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault part with a right movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Movement_Up</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault part with an up movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mullion</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Linear deformation structures as the interface between a competent and an incompetent layer, where cusp shapes point into the more competent rock</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mylonitic_Foliation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Foliation formed during mylonitization: usually a strong and compositional foliation defined by parallel minerals and mineral aggregates, lenses and parallel layers reflecting primary structures such as dikes and bedding</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Mylonitic_Shear_Zone</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Shear zone consisting of Mylonitic deformation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Neoproterozoic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with an age of 2800Ma to 2500Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Neogene</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 23.03Ma to 2.58Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Neoproterozoic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with an age of 100Ma to ~541.0Ma (+-1.0Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#NonCylindrical_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by a fold's cylindricity producing a noncylindrical fold</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Nonconformity_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Is a unconformity contact that exists between sedimentary rocks and metamorphic or igneous rocks when the sedimentary rock lies above and was deposited on the pre-existing and eroded metamorphic or igneous rock</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Norian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~227Ma to ~208.5Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Normal_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault where the hanging wall has moved down relative to the footwall.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Normal_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Normal Faults are extensional with respect to a horizontal layer or the surface of the earth</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Oblique_Slip_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault where the displacement vector is dipping at a lower angle than the dip of the fault, i.e. mixture of strike-slip and dip-slip movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Oblique_Strata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The units sit at an angle to the adjacent unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Offlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The successive lateral contraction extent of strata (in an upward sequence) due to their deposition in a shrinking sea or on the margin of a rising landmass. Also known as regressive overlap</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Olenekian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 251.2Ma to 247.2Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Oligocene</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 33.9Ma to 23.03Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#One_Axis</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold shapes with one fold axis</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Onlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A type of overlap characterized by regular and progressive pinching out of the strata toward the margins

of a depositional basin; each unit transgresses and extends beyond the point of reference of the underlying unit. Also known as transgressive overlap.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Open_Interlimb_Angle</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Interlimb angle 120 to 70 degrees</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Ordovician></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 485.4Ma (+1.9Ma) to 443.4Ma (1.5Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Orientation></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The Attitude of a geologic feature of interest</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Orosirian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 2050Ma to 1800Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Overturned_Strata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Structure causing strata to be overturned</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Oxfordian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 163.5Ma (+1.0Ma) to 157.3Ma (+1.0Ma)</Literal>

```

</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Paibian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of ~497Ma to ~494Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Paleoarchean</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with
an age of 3600Ma to 3200Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Paleocene</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 66.0Ma to 56.0Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Paleogene</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 66.0Ma to 23.03Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Paleoproterozoic</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with
an age of 2500Ma to 1600Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Paleozoic</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Era with
an age of ~541.0Ma (+-1.0Ma) to 252.17Ma (+-0.06Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Parabolic_Flute_Cast</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Cast has a shape with a bulbous end is parabolic or rounded shape and rarely shows any asymmetrical behavior. They occur parallel to each other and to paleoflow</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Paraconformity_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Is a type of unconformity contact in which strata are parallel; there is no apparent erosion and the unconformity surface resembles a simple bedding plane</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Parallel></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The intrusion is parallel to the stratigraphic unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Parallel_Layer_Set</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by the deformation of a set of layers producing a parallel set of layers</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Parallel_Strata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The units parallel but unconformable to the adjacent unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Part_of_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Parts that go with faults</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Part_of_Fold</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Parts
that go with folds</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Part_of_Structure</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Major
structure parts</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pencil_Cleavage</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Two
differently oriented cleavages in shales causing the shale to break into pencile-like fragments.
Typically a combination of compaction and tectonic strain</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pencil_Structure</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Occurs
as a result of discrete interference between conpaction cleavage and a subsequent tectonic
cleavage, or between two equally developed tectonic cleavages</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pennsylvanian</IRI
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 323.2Ma (+0.4Ma) to 298.9Ma (+0.15Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Period</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major
division of geological time made up of two or more Epochs</Literal>
```

```

</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Period</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Roughly
one hundred million years</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Permian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 298.8Ma (+-0.15Ma) to 252.17Ma (+-0.06Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Perpendicular_Layer_Set</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geometry relationships caused by the deformation of a set of layers producing
an orthogonal set of layers</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Perpendicular_Strata</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The units perpendicular to the adjacent unit</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Phanerozoic</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Eon
with an age of 541.0Ma +-1.0 to Present</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Phyllitic_Cleavage</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Continuous cleavage formed under lower-middle greenschist facies conditions
in phyllitic rock</Literal>
</AnnotationAssertion>

```

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Piacenzian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 3.600Ma to 2.58Ma</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pitch</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
angle between the strike of a slip surface and the lineation, measured with a protractor on the slip
surface. Also called rake</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Planar_Fold_Part</I
RI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold
parts that are planar features</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Planar_Orientation<
/IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Orientation of a Planar feature</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Planar_Structure</I
RI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Simple
planar structures made in rock due to deformation</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pleistocene</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch
with an age of 2.58Ma to 0.0117Ma</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pliensbachian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 190.8Ma (+-1.0Ma) to 182.7Ma (+-0.7Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pliocene></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 5.333Ma to 2.58Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Plunging_Inclined_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold with inclined axial surface and plunging hinge line</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Plunging_Upright_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold with vertical axial surface and plunging hinge line</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Precambrian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">SuperEon with an age from 4600Ma to 541.0Ma (+-1.0Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Priabonian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 38.0Ma to 33.9Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Pridoli></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 423.0Ma (+-2.3Ma) to 419.2Ma (+-3.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Prigian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 410.8Ma (+-2.8Ma) to 407.6Ma (+-2.6Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Prod_Mark</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Mark is a relatively short tool mark caused by an object that was dug into the muddy sediment and then lifted out. These markings are generally asymmetrical, getting deeper down current, and end suddenly.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Proterozoic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Eon with an age of 2500Ma to ~541.0Ma (+-1.0Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Quaternary</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 2.58Ma to Present</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Reclined_Fold</IRI>
>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold with subvertical axial surface and subhorizontal hinge line</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Recumbent_Fold</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold with subhorizontal axial surface and horizontal hinge line</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Relationship</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships of geological information</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Reverse_Fault</IRI>
>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault where the hanging wall has moved up relative to the footwall</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Reverse_Fault</IRI>
>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Reverse Faults are compressional with respect to a horizontal layer or the surface of the earth</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Rhaetian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~208.5Ma to 201.3Ma (+-0.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Rhuddanian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 443.4Ma (+-1.5Ma) to 440.8Ma (+-1.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Rhyacian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 2300Ma to 2050Ma</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Right_Lateral_Strike_Slip_Fault</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Strike-slip fault with movement right related to the point of reference</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Right_Slip_Normal_Fault</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Olique slip fault made from the mixture of a right lateral strike-slip fault and a normal fault</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Right_Slip_Reverse_Fault</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Olique slip fault made from the mixture of a right lateral strike-slip fault and a reverse fault</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Roadian</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 272.3Ma (+0.5Ma) to 268.8Ma (+0.5Ma)</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Rodding</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Lineation by means of elongated mineral aggregates formed during deformation</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Roll_Mark</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Mark is made by an object that was forced to roll down the bottom of a stream. The marks made in this case are continuous, long, generally linear, and run parallel to the paleoflow. The width dimensions of roll marks vary based upon the size of the object. Roll marks are a sign of water
```

that has enough energy to cause motion but not enough turbidity and energy to separate the object from the bottom of a muddy bed.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Rotation></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Lincation caused by the physical rotation of a rigid prismatic mineral in a soft matrix</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Rupelian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 33.9Ma to 28.1Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#SFold></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Asymmetric folds where the short limbs appear to have been rotated anticlockwise with respect to their long limbs</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sakmarian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 295.0Ma (+0.18Ma) to 290.1Ma (+0.26Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sample></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A sample of the unit comprised of the material the unit is made up of for future study or research</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sandbian></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 458.4Ma (+0.9Ma) to 453.0Ma (0.7Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Santonian></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
 with an age of 86.3Ma (+-0.5Ma) to 83.6Ma (+-0.2Ma)</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Schistosity></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Tectonic
 foliation defined by course-grained platy minerals in rock deformed under upper greenschist and
 amphibolite facies conditions</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sediment></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">loose
 sediment body existing in map area</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sediment_Contact</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
 boundary with sediment</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sedimentary_Lineation</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Sedimentary linear structure preserved in rock</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sedimentary_Structure</IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Basic
 Stratigraphic Structure preserved in rock</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>

```

    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sedimentary_Surface</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Sedimentary surfaces</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Selandian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 61.6Ma to 59.2Ma</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
    <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Series</IRI>
    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major division of geological time made up of two or more Stages</Literal>
    </AnnotationAssertion>
    <AnnotationAssertion>
      <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
      <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Series_2</IRI>
      <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of ~521Ma to ~509Ma</Literal>
      </AnnotationAssertion>
      <AnnotationAssertion>
        <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
        <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Series_3</IRI>
        <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of ~509Ma to ~497Ma</Literal>
        </AnnotationAssertion>
        <AnnotationAssertion>
          <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Serpukhovian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 330.9Ma (+0.2Ma) to 323.2Ma (+0.4Ma)</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Serravallian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 13.82Ma to 11.62Ma</Literal>
  </AnnotationAssertion>

```

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sharp_Contact</IRI>
>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
depositionally conformable contact that has a shap boundary between the rock bodies</Literal>
```

```
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Shear_Fracture</IRI>
>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fracture
due to shearing</Literal>
```

```
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Shear_Lineation</IRI>
RI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Structural lineations due to shear deformation to a feature with a rock
unit</Literal>
```

```
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Shear_Zone</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Tabular
strain zone dominated by ductile deformation</Literal>
```

```
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sheinwoodian</IRI>
>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 433.4Ma (+-0.8Ma) to 430.5Ma (+-0.7Ma)</Literal>
```

```
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Siderian</IRI>
```

```
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 2500Ma to 2300Ma</Literal>
```

```
</AnnotationAssertion>
```

```

<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sill</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
relatively thin tabular concordant body intruded along bedding planes</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Silurian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 443.4Ma (+-1.5Ma) to 419.2Ma (+-3.2Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Simple_Structure</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Simple
tructures made within a rock due to deformation</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sinemurian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 199.3Ma (+-0.3Ma) to 190.8Ma (+-1.0Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sinistral_Strike_Sli
p_Fault</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Strike-
slip fault with movement left related to the point of reference</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Skip_Mark</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Mark is
part of a series of linear tool marks left by an object that skipped along the bottom of a stream by
saltation. Skip marks are characterized by their even spacing and the crescent-shaped mark that
is left on the bed. The skip marks run parallel to paleoflow.</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```


<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Slaty_Cleavage</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Tectonic cleavage in slate that forms by reorientation and pressure solution (diffusion) of minerals</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Slickenline></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Lineations found on slickensides, providing information about the direction of slip on fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Slickenside></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The finely polished surface displayed by faults</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Slide_Mark</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Mark is a long, relatively wide, but shallow gouge left in a muddy bed caused by sliding of a soft-body object such as a bed of algae or slumping of sediment.</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Slip_Fracture</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fracture due to slipping</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Sliver></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A piece of material that has become an inclusion within a structure</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Spatial_Relationship</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationship due to spatial information</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Spindle_Shaped_Flute_Cast</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Cast is considerably longer than they are wide and have pointed bulbous ends. These structures lack symmetry parallel to the flow direction</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stage></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The smallest division of geological time</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stage_10</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~489.5Ma to 485.4Ma (+-1.9Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stage_2</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~529Ma to ~521Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stage_3</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~521Ma to ~514Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stage_4</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of ~514Ma to ~509Ma</Literal>

</AnnotationAssertion>

```

<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stage_5</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of ~509Ma to ~504.5Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Statherian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 1800Ma to 1600Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stenian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 1200Ma to 1000Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stock</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
smaller irregular discordant intrusive</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Strain_Shadows</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Sectors
on each side of a porphyroclast or other rigid object in a shear zone or mylonite zone where
minerals may crystallize into tails</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Strata_Orientation</I
RI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Relationships with a structure and the orientation of strata within that
structure</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stratigraphic_Separation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Separation of stratigraphic unit with itself due to fault movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stratigraphic_Adjacency</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships with a stratigraphic unit and an adjacent unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stratigraphic_Inclusion</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships with a stratigraphic unit and what is an inclusion within that unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stratigraphic_Overlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships with a stratigraphic unit and the overlap due to regression or transgression</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stratigraphy></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The units age and lithology</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Stretch_Lineation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Lincation formed by tectonic streaching of objects, such as mineral aggregates and conglomerate clasts</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Striation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Linear scratches and grooves on a slip surface</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Strike_Separation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The true amount of seperation caused but a fault in the strike direction</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Strike_Slip_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault where the displacement vector is horizontal</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Structural_Geometry</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships with a structure and the geometry within that structure</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Structural_Inclusion</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships with a structure and what is an inclusion within that structure</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Structural_Overlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Relationships with a structure and overlap within that structure</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Structure></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geological structures both primary and secondary</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Styolitic_Cleavage</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Cleavage consisting of stylolites (pressure solution seams). Also called pressure-solution cleavage</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Super_Eon</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major division of geological time made up of two or more Eons</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Super_Eonotherm</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major division of geological time made up of two or more Eonotherms</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Supergroup></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A supergroup is an aggregate of two or more associated groups and/or formations that share certain lithological characteristics. A supergroup may be made up of different groups in different geographical areas.</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Symmetric_Crenulation</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Crenulation cleavages are formed symmetrical</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Syncline</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold where rock layers get older away from the center</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Synform</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold where the limbs dip downward and toward the hinge zone</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Synkinematic_Recrystallization</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Mineral is deformed by dissolution/precipitation of the mineral or a new mineral</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#System</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A major division of geological time made up of two or more Series</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Telychian</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 438.5Ma (+1.1Ma) to 433.4Ma (+0.8Ma)</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Termadocian</IRI>
```

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 485.4Ma (+-1.9Ma) to 477.7Ma (+-1.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Terreneuvian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of ~541.0Ma (+-1.0Ma) to ~521Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Thanetian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 59.2Ma to 56.0Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Thickness_Change</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Change in the units thickness</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Throw</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The vertical component of the dip separation of a fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Tight_Interlimb_Angle</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Interlimb angle 30 to 0 degrees</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Tithonian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 152.1Ma (+-0.9Ma) to ~145.0Ma</Literal>

</AnnotationAssertion>


```

<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Toarcian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 182.7Ma (+-0.7Ma) to 174.1Ma (+-1.0Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Tonian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period
with an age of 1000Ma to 850Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Tool_Mark</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Are a
type of sole marking formed by grooves left in a bed by things being dragged along by a
current</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Topological_Relatio
nship</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Relationship due to topology</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Tortonian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 11.62Ma to 7.246Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Tournaisian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 358.9Ma (+-0.4Ma) to 346.7Ma (+-0.4Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Triassic</IRI>

```

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Period with an age of 252.17Ma (+-0.06Ma) to 201.3Ma (+-0.2Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Trust_Fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fault that is a low angle variation of a reverse fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Turonian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 93.9Ma to 89.8Ma (+-0.3Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Unconformable_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A depositional contact that is a buried erosional or non-depositional surface separating two rock masses or strata of different ages, indicating that sediment deposition was not continuous</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Unconformable_Strata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Strata marking a discontinuity in the geological record, and typically not having the same direction of stratification</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upper_Cretaceous</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 100.5Ma to 66.0Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upper_Devonian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 382.7Ma (+-1.6Ma) to 358.9Ma (+-0.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upper_Jurassic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 163.5Ma (+-1.0Ma) to ~145.0Ma</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upper_Mississippian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 330.9Ma (+-0.2Ma) to 323.2Ma (+-0.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upper_Ordovician</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 458.4Ma (+-0.9Ma) to 443.4Ma (+-1.5Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upper_Pennsylvanian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch subdivision with an age of 307.0Ma (+-0.1Ma) to 298.9Ma (+-0.15Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upper_Triassic</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of ~237Ma to 201.3Ma (+-0.2Ma)</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Upright_Fold</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold
with vertical axial surface and horizontal hinge line</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Valanginian</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of ~139.8Ma to ~132.9Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Vertical_Fold</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Fold
with vertical axial surface and subhorizontal hinge line</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Vertical_Strata</IRI>
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Structure causing strata to be vertically oriented</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Visean</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 346.7Ma (+0.4Ma) to 330.9Ma (+0.2Ma)</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Volcanic_Pipe</IRI>
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
tubular roughly vertical body that may have been a feeder vent for a volcano</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Water</IRI>
```

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">water body existing in map area</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Water_Contact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The boundary with water</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Wedging_Out</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A stratigraphic unit that is not laterally continuous due to wedging out</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Wenlock</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Epoch with an age of 433.4Ma (+0.8Ma) to 427.4Ma (+0.5Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Wordian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 268.8Ma (+0.5Ma) to 265.1Ma (+0.4Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Wuchiapingian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 259.8Ma (+0.4Ma) to 254.14Ma (+0.07Ma)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Ypresian</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage with an age of 56.0Ma to 47.8Ma</Literal>

```

</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#ZFold</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Asymmetrical folds whose short limbs appear to have been rotated clockwise
with respect to their long limbs</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Zanclean</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Stage
with an age of 5.333Ma to 3.600Ma</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#Zonal_Crenulation<
/IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">Cleavage: S2 cleavage forms zones separating microlithons containing tight
folds of S1 foliation. This type tends to form in coarser-grained schists</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#axialTraceOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates an axial trace of a fold to the fold and required fold parts</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#concordants</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates if an intrusion body is concordant to a lithostratigraphic unit</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#concordantsOf</IRI>
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates if a stratigraphic unit has concordants from an intrusion body</Literal>
</AnnotationAssertion>

```

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#conformableToStrataOf</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates adjacent strata to a unit to the strata being conformable to a unit</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#contact</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to contacts</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#crossCuts</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates intrusive body types that cross-cut to classes that they could cross-cut</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#depositionalContactOf</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to the available depositional contact types that relates back to the lithostratigraphic unit with the contact</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#dipSeparationOf</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults can have the separation type dip separation</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#discordants</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if an intrusion body is discordant to a lithostratigraphic unit</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#discordantsOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a stratigraphic unit has discordants from an intrusion body</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#duplexOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if units are duplexed what kind of fault could cause that</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#fault</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to faults</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultAgeOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates available chronostratigraphic ages to the fault with those ages</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultContactOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to relates a fault contact back to the fault that it belongs to</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultDisplacement</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to fault displacement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultDisplacment></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property related to fault displacment</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultGeometry></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to fault geometry</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultLateralMovement></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties that relate fault lateral movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultOverlapOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if units are overlapping what kind of fault could cause that</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultPart></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties that relate what faults have what fault parts</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultScarpInclusionOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates available fault inclusions within a fault scarp to the lithostratigraphic units that make up the inclusion</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultScarpOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates if a fault has a fault scarp what types of fault it could be</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultSeparation</IRI>
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">properties related to fault separation</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultSpatialRelation
ship</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">properties related to fault spatial relationships</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultStructuralOverl
ap</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">properties related to fault structural overlap</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#faultZoneOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates the class fault zone to the classes that have fault zones</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#fold</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">properties related to folds</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldAgeOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates available chronostratigraphic ages to the fold with those ages</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldCoreOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates a fold core to the lithostratigraphic unit that makes up the core of the fold</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldCylindricityOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates available fold cylindricity types to the fold that has that type</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldGeometry</IRI>
>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">properties related to fold geometry</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldInterlimbAngle
Of</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates available fold interlimb angle types to the fold that has that type</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldIsogonOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates available fold isogon types to the fold that has that type</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldOverlapOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fold has overlap (overturned) to the fold that is overturned</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldPart></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to fold parts</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldShapeOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates available fold shape types to the fold that has that type</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldSymmetryOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates available fold symmetry types to the fold that has that type</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#foldTypeBasedOnOrientationOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates available fold types based on the orientation to the fold that has that type</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#footwallMove></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties that relate fault footwall movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#footwallMovementDownOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a footwall was has moved down what types of faults could cause that</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#footwallMovementUpOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a footwall was has moved up what types of faults could cause that</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#footwallOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has a footwall what types of fault it could be</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#gisSpatialType></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to GIS types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hangingWallMove></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties that relate fault hanging wall movement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hangingWallMovementDownOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a hanging wall was has moved down what types of faults could cause that</Literal>

</AnnotationAssertion>

```
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hangingWallMovementUpOf</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a hanging wall was has moved up what types of faults could cause that</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hangingWallOf</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has a hanging wall what types of fault it could be</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasAxialTrace</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold and the required parts to the axial trace</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasDepositionalContact</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to lithostratigraphic units to allow for the selection of the available depositional contact types</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasDipSeparation</IRI>
```

```
<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has the separation type dip separation</Literal>
```

```
</AnnotationAssertion>
```

```
<AnnotationAssertion>
```

```
<AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasDuplex</IRI>
```

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates which types of faults cause duplexed units</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFaultAge</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates faults to the chronostratigraphic ages available</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFaultContact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to faults</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFaultOverlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates which types of faults cause overlapping units</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFaultScarp</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults have a fault scarp</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFaultStructuralInclusion</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit in a fault scarp to the available fault inclusions</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFaultZone</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates classes that have fault zones to the class fault zone</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldAge</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates folds to the chronostratigraphic ages available</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldCore</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit within a fold to being the folds core</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldCylindricity</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold to the available fold cylindricity types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldInterlimbAngle</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold to the available fold interlimb angle types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldIsogon</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold to the available fold isogon types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldOverlap</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold to if the fold has overlap (overturned)</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldShape</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold to the available fold shape types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldSymmetry</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold to the available fold symmetry types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFoldTypeBasedOnOrientation</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a fold to the available fold types based on the folds orientation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFootWallMovementDown</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults have footwalls that move down</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFootwall</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults have a footwall</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasFootwallMovementUp></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults have footwalls that move up</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasHangingWall></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults have a hanging wall</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasHangingWallMovementDown></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults have hanging walls that move down</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasHangingWallMovementUp></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults have hanging walls that move up</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasHeave></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has the displacement type heave</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasHorizontalStrata></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the if the units strata is horizontal</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasInclinedLayerSet></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the layer set being inclined to one another</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasInclinedStrata></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the if the units strata is inclined</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasInmaterialInclusion></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the available inmaterial inclusions</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasIntrusionAge></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates intrusion body types to the chronostratigraphic ages available</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasIntrusionZone></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates classes that have intrusion zones to the class intrusion zone to allow for the selection of the available intrusion zone types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasIntrusiveContact></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to intrusions</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasIntrusiveRock</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates classes that have intrusive rock material to the class intrusive rock</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasLateralContinuity</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to if the unit is laterally continuous</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasLateralNoncontinuity</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to available reasons if the unit is laterally noncontinuous</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasLithostratigraphicAge</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic units to the chronostratigraphic ages available</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasLithostratigraphicMaterial</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the available material types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasLithostratigraphicUnitType></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property relating lithostratigraphy to the lithostratigraphic unit that it is</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasLocation></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property related to geological features having a locaton</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasMaterialInclusion></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the available material inclusions</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasMovementLeft></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults cause left lateral movment</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasMovementRight></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults cause right lateral movment</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasOffLap></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to if the unit is off lapping another unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasOnLap</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates lithostratigraphic unit to if the unit is on lapping another unit</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasOverturnedStrata
</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates lithostratigraphic unit to the if the units strata is overturned</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasParallelLayerSet
</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates lithostratigraphic unit to the layer set being parallel to one another</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasPerpendicularLa
yerSet</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates lithostratigraphic unit to the layer set being perpendicular to one another</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasPitch</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates if a fault has the displacment type pitch</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

```
<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasSampleMaterial<
/IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates a sample to the material types that could be sampled</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
```

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasSedimentContact></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to unconsolidated sediments</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasShearZone></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates classes that have shear zones to the class shear zone to allow for the selection of the available shear zone types</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasStratigraphicMeasurement></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a measurement to what type of measurement it is</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasStratigraphicSeparation></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a lithostratigraphic unit is separated by a fault</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasStrikeSeparation></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has the separation type strike separation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasStructuralMeasurement></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates a measurement to what type of measurement it is</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasThrow</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has the displacement type throw</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasVerticalStrata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the if the units strata is vertical</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#hasWaterContact</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact given to water</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#heaveOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults can have the displacement type heave</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#horizontalStrataOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a units strata is horizontal to the unit that has strata with that orientation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#inclinedLayerSetOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a layer set is inclined to one another to the lithostratigraphic units that are being related</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#inclinedStrataOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a units strata is inclined to the unit that has strata with that orientation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#inmaterialInclusionOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates the types of inmaterial inclusions available to lithostratigraphic units</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusion></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to intrusions</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusionAdjacency></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to intrusion adjacency</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusionAgeOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates available chronostratigraphic ages to the intrusion body with those ages</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusionRelationship></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to intrusion relationships</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusionType></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates an intrusive body type to the intrusive body types available</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusionZoneOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates the class intrusion zone to the classes that have intrusion zones</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusiveContactOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to relates an intrusion contact back to the intrusion that it belongs to</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#intrusiveRockOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates intrusive rock to classes that are made of intrusive rock</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isConformableToStrata></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the unit being conformable to an adjacent strata</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isCrossCutBy></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates classes that have been cross-cut to intrusive body types that they were cross-cut by</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isLine</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates classes that have a the GIS type line</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isObliqueToStrata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the unit being unconformable to an adjacent strata due to the unit being oblique to the strata</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isParallelTo</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates classes that have bedding parallel to intrusive body types to the available intrusive body types that could be parallel to the bedding</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isParallelToStrata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the unit being unconformable to an adjacent strata due to the unit being parallel to the strata</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isPerpendicularToStrata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the unit being unconformable to an adjacent strata due to the unit being perpendicular to the strata</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

```

    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
    <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isPoint</IRI>
    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates classes that have a the GIS type point</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isPolygon</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates classes that have a the GIS type polygon</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#isPolyline</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates classes that have a the GIS type polyline</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#lateralContinuityOf
</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates if a units is laterally continuous to the unit that has lateral continuity</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#lateralNoncontinuity
Of</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates available reasons that cause a unit to be laterally noncontinuous to the unit that has
lateral noncontinuity</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#layerSetOrientation
</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">properties related to stratigraphic geometrical layer set orientation
relationships</Literal>
  </AnnotationAssertion>
<AnnotationAssertion>

```

```

    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
    <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#lineOf</IRI>
    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates GIS line types back to the classes that are mapped using them</Literal>
  </AnnotationAssertion>
</AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#lithostratigraphicAgeOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates available chronostratigraphic ages to the lithostratigraphic units with those
ages</Literal>
  </AnnotationAssertion>
</AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#lithostratigraphicMaterialOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
that relates the types of materials available to lithostratigraphic units</Literal>
  </AnnotationAssertion>
</AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#lithostratigraphy</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to lithostratigraphy</Literal>
  </AnnotationAssertion>
</AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#locationOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
related to a location having what geological feature</Literal>
  </AnnotationAssertion>
</AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#material</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to material</Literal>
  </AnnotationAssertion>
</AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#materialInclusionOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates the types of material inclusions available to lithostratigraphic units</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#measurement></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what is being measured to the class measurement</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#movementLeftOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has left lateral movement what types of faults could cause that</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#movementRightOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has right lateral movement what types of faults could cause that</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#obliqueToStrataOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates adjacent strata to a unit to the strata being unconformable to a unit due to the strata being oblique to the unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#offLapOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a lithostratigraphic unit is being off lapped by another unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#onLapOf></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
 that relates if a lithostratigraphic unit is being on lapped by another unit</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#overturnedStrataOf></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
 that relates if a units strata is overturned to the unit that has strata with that orientation</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#parallelLayerSetOf></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
 that relates if a layer set is parallel to one another to the lithostratigraphic units that are being
 related</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#parallelToStrataOf></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
 that relates adjacent strata to a unit to the strata being unconformable to a unit due to the strata
 being parallel to the unit</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
 <IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#parallels></IRI>
 <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
 that relates intrusive body types that run parallel to bedding to classes that they could be parallel
 to</Literal>
 </AnnotationAssertion>
 <AnnotationAssertion>
 <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#perpendicularLayerSetOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a layer set is perpendicular to one another to the lithostratigraphic units that are being related</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#perpendicularToStrataOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates adjacent strata to a unit to the strata being unconformable to a unit due to the strata being perpendicular to the unit</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#pitchOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults can have the displacement type pitch</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#pointOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates GIS point types back to the classes that are mapped using them</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#polygonOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates GIS polygon types back to the classes that are mapped using them</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#polylineOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates GIS polyline types back to the classes that are mapped using them</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#relativeAge</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties that relate the relative age of one geological feature to another</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#sampleMaterialOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates types of samples to the class sample</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#samples></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what is being sampled to the class sample</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#sedimentContactOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to relates unconsolidated sediment contact back to the sediment that it belongs to</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#shearZoneOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates the class shear zone to the classes that have shear zones</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#strataOrientation></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to stratigraphic geometrical strata orientation relationships</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicAdjacency></IRI>

```

    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
    ns#PlainLiteral">properties related to stratigraphic adjacency</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicGeomet-
ricalRelationship</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
  ns#PlainLiteral">properties related to stratigraphic geometrical relationships</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicInclusio-
ns</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
  ns#PlainLiteral">properties related to stratigraphic inclusions</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicLateral
Relationships</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
  ns#PlainLiteral">properties related to stratigraphic lateral relationships</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicMeasur-
emnetOf</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property
  that relates type of measurment to what has that measurment type</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

```

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicOverlap
</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
  ns#PlainLiteral">properties related to stratigraphic overlap</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>

```

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicRelationship></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to stratigraphic relationships</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicSeparationOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a fault has caused lithostratigraphic unit to be separated</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#stratigraphicTopologicalRelationship></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to stratigraphic topological relationships</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#strikeSeparationOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults can have the separation type strike separation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#structuralMeasurementOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates type of measurement to what has that measurement type</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI><http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#throwOf></IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates what types of faults can have the displacement type throw</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#unconformableToStrata</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates lithostratigraphic unit to the available reasons for the unit to be unconformable to an adjacent strata</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#verticalStrataOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">property that relates if a units strata is vertical to the unit that has strata with that orientation</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#waterContactOf</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">contact property given to relates a water contact back to the water that it belongs to</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:comment"/>

<IRI>http://www.semanticweb.org/tylerboyd/Geology/GeologicalMapping#zone</IRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">properties related to zones</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:label"/>

<AbbreviatedIRI>owl:Thing</AbbreviatedIRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Geological Mapping</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:label"/>

<AbbreviatedIRI>owl:topDataProperty</AbbreviatedIRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">geologicalMappingDataProperties</Literal>

</AnnotationAssertion>

<AnnotationAssertion>

<AnnotationProperty abbreviatedIRI="rdfs:label"/>

<AbbreviatedIRI>owl:topObjectProperty</AbbreviatedIRI>

<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">geologicalMappingObjectProperties</Literal>

```

</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty IRI="http://purl.org/dc/elements/1.1/date"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84\_pos#</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">$Date:
2009/04/20 15:00:30 $</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty IRI="http://purl.org/dc/elements/1.1/description"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84\_pos#</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
vocabulary for representing latitude, longitude and
altitude information in the WGS84 geodetic reference datum.
Version $Id: wgs84_pos.rdf,v 1.22 2009/04/20 15:00:30 timbl Exp $. See
http://www.w3.org/2003/01/geo/ for more details.</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty IRI="http://purl.org/dc/elements/1.1/title"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84\_pos#</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">WGS84
Geo Positioning: an RDF vocabulary</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84\_pos#</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">
Recent changes to this namespace:
$Log: wgs84_pos.rdf,v $
Revision 1.22 2009/04/20 15:00:30 timbl
Remove the time bits which have been deal with elsewhere eg in iCal.

Revision 1.21 2009/04/20 12:52:47 timbl
try again

Revision 1.20 2009/04/20 12:42:11 timbl
Add Event (edited ages ago and never checked in), and location (following discussion
http://chatlogs.planetrdf.com/swig/2009-04-20#T12-36-09)

Revision 1.19 2009/04/20 12:36:31 timbl
Add Event (edited ages ago and never checked in), and location (following discussion
http://chatlogs.planetrdf.com/swig/2009-04-20#T12-36-09)

Revision 1.18 2006/02/01 22:01:04 danbri
Clarified that lat and long are decimal degrees, and that alt is decimal metres about local
reference ellipsoid

```

Revision 1.17 2004/02/06 17:38:12 danbri
Fixed a bad commit screwup

Revision 1.15 2003/04/19 11:24:08 danbri
Fixed the typo even more.

Revision 1.14 2003/04/19 11:16:56 danbri
fixed a typo

Revision 1.13 2003/02/19 22:27:27 connolly
relaxed domain constraints on lat/long/alt from Point to SpatialThing

Revision 1.12 2003/01/12 01:41:41 danbri
Trying local copy of XSLT doc.

Revision 1.11 2003/01/12 01:20:18 danbri
added a link to morten's xslt rdfs viewer.

Revision 1.10 2003/01/11 18:56:49 danbri
Removed datatype range from lat and long properties, since they would have required each occurrence of the property to mention the datatype.

Revision 1.9 2003/01/11 11:41:31 danbri
Another typo; repaired rdfs:Property to rdf:Property x4

Revision 1.8 2003/01/11 11:05:02 danbri
Added an rdfs:range for each lat/long/alt property,
<http://www.w3.org/2001/XMLSchema#float>

Revision 1.7 2003/01/10 20:25:16 danbri
Longer rdfs:comment for Point, trying to be Earth-centric and neutral about coordinate system(s) at the same time. Feedback welcomed.

Revision 1.6 2003/01/10 20:18:30 danbri
Added CVS log comments into the RDF/XML as an rdfs:comment property of the vocabulary. Note that this is not common practice (but seems both harmless and potentially useful).

revision 1.5

date: 2003/01/10 20:14:31; author: danbri; state: Exp; lines: +16 -5

Updated schema:

Added a dc:date, added url for more info. Changed the rdfs:label of the namespace from gp to geo. Added a class Point, set as the rdfs:domain of each property. Added XML comment on the lat_long property suggesting that we might not need it (based on #rdfig commentary from implementors).

revision 1.4

date: 2003/01/10 20:01:07; author: danbri; state: Exp; lines: +6 -5

Fixed typo; several rdfs:about attributes are now rdf:about. Thanks to MortenF in #rdfig for catching this error.

revision 1.3

date: 2003/01/10 11:59:03; author: danbri; state: Exp; lines: +4 -3

fixed buglet in vocab, added more wgs links

revision 1.2

date: 2003/01/10 11:01:11; author: danbri; state: Exp; lines: +4 -4

Removed alt from the as-a-flat-string property, and switched from space separated to comma separated.

revision 1.1

date: 2003/01/10 10:53:23; author: danbri; state: Exp;

basic geo vocab

```
</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:label"/>
    <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#</IRI>
    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">geo</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
    <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#Point</IRI>
    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">
Uniquely identified by lat/long/alt. i.e.
```

spaciallyIntersects(P1, P2) :- lat(P1, LAT), long(P1, LONG), alt(P1, ALT),
lat(P2, LAT), long(P2, LONG), alt(P2, ALT).

sameThing(P1, P2) :- type(P1, Point), type(P2, Point), spaciallyIntersects(P1, P2).

```
</Literal>
  </AnnotationAssertion>
  <AnnotationAssertion>
    <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
    <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#Point</IRI>
    <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A point,
typically described using a coordinate system relative to Earth, such as WGS84.
  </Literal>
  </AnnotationAssertion>
```

```

<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:label"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#Point</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">point</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#alt</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
WGS84 altitude of a SpatialThing (decimal meters
above the local reference ellipsoid).</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:label"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#alt</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">altitude</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#lat</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The
WGS84 latitude of a SpatialThing (decimal degrees).</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:label"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#lat</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">latitude</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#lat_long</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">A
comma-separated representation of a latitude, longitude coordinate.</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:label"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#lat_long</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-
ns#PlainLiteral">lat/long</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#location</IRI>

```


<Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The relation between something and the point, or other geometrical thing in space, where it is. For example, the relationship between a radio tower and a Point with a given lat and long. Or a relationship between a park and its outline as a closed arc of points, or a road and its location as a arc (a sequence of points). Clearly in practice there will be limit to the accuracy of any such statement, but one would expect an accuracy appropriate for the size of the object and uses such as mapping .

```

</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:label"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#location</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">location</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#long</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">The WGS84 longitude of a SpatialThing (decimal degrees).</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:label"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#long</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">longitude</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:comment"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#BasicGeo:SpatialThing</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">Anything with spatial extent, i.e. size, shape, or position. e.g. people, places, bowling balls, as well as abstract areas like cubes.
</Literal>
</AnnotationAssertion>
<AnnotationAssertion>
  <AnnotationProperty abbreviatedIRI="rdfs:label"/>
  <IRI>http://www.w3.org/2003/01/geo/wgs84_pos#BasicGeo:SpatialThing</IRI>
  <Literal datatypeIRI="http://www.w3.org/1999/02/22-rdf-syntax-ns#PlainLiteral">SpatialThing</Literal>
</AnnotationAssertion>
</Ontology>

```

<!-- Generated by the OWL API (version 4.1.3.20151118-2017) <https://github.com/owlcs/owlapi> -->