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Digital Libraries

*Metadata Application Profile*

**Context**

The Rock and Mineral Collection(RMC) digitizes my personal collection of rocks and minerals that have been collected primarily from around the United States and from other countries as well. Some of these objects have been collected by individuals I know and have been gifted to me.

**Content**

The RMC contains photographs of 24 rocks and minerals that I have collected and will be updated as the collection grows. The photographs will be taken by myself using a digital camera and the photos will be uploaded into the collection. The description of the items will focus on classifying the rocks/minerals whether it’s by mineral type or rock type using controlled vocabularies as well as noting the locations and ownerships the rock/mineral has been held under.

**Users**

This digital library will be primarily for personal use, as it is quite difficult to label and classify rocks and minerals physically without altering their faces. It will be of use to family and friends as they might be interested in adding to my collection. Collectors might also get some use out of the collection as I will be identifying the rocks and minerals and where they came from.

**Functional Requirements**

**Browse by:**

* **Size**
* **Weight**
* **Color**
* **mineralType**
* **rockClass**
* **locationFound**

**Fielded Search by:**

* **Title**
* **rockClass**
* **mineralType**

**Limit searches by:**

* **Date**
* **locationFound**

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|  | Obligation | Cardinality | Controlled Vocab | Content Guidelines | Mapping to DublinCore | Notes | Examples |
| title | Required | 1 |  | Name of rock’s class. Then, name location where it was found as exact as possible. If more than one was collected include weight in ounces.  Name of mineral followed by location discovered. If more than one include weight in ounces.  All first letters except articles capitalized. | [Title](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#title) | Identification of rock/mineral | Rocks: Sedimentary Rock from Indiana  Minerals: Quartz from South Dakota, 4 oz. |
| format | Required | 1 | [MIME Type](https://www.iana.org/assignments/media-types/media-types.xhtml) | Will always be an image | [Format](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#format) | The media type | image/jpeg |
| objectid | Required | 1 |  | Format rocks:  rockxxx  Format minerals: mineral001 | [Identifier](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#identifier) | Used to get URL | rock001 |
| filename | Required | 1 |  | Must match filename in directory | [Identifier](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#identifier) | File name + extension | rock001.jpg |
| giver | Recommended | Any value, usually 1 |  | Format: Last Name, First Name | [Contributor](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#contributor) | Person who gave the item to me | Smith, John |
| date | Required | 1 | [W3CDTF](https://www.w3.org/TR/NOTE-datetime) | If exact day is unknown, give first day of the month.  If month and year are unknown, give approximate date with first day of a month and note in description.  Format: yyyy-mm-dd | [Date](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#date) | Date the item was originally found.  This could be the day I found it, or the day the giver found it. | 2024-05-12 |
| dateAccepted | Recommended | 1 | [W3CDTF](https://www.w3.org/TR/NOTE-datetime) | Format: yyyy-mm-dd | [Date](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#date) | Date the item was gifted | 2024-06-12 |
| location | Required | 1 | [TGN](https://www.getty.edu/research/tools/vocabularies/tgn/?find=denali+national+park&place=&nation=&english=Y) | Use TGN  Depending on amount of information known, format as: Name of park; Name of city, state; Name of city, country.  If there are further details regarding well-known geological features such as caves, beaches, or volcanoes, and it’s included in TGN, use that. | [Coverage](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#coverage) | Location as to where the rock was found | Denali National Park (national park) |
| rockType | Required | 1 | [RCS](https://www.bgs.ac.uk/technologies/bgs-rock-classification-scheme/) | Identify the rock using RCS using what is already known or describing within the search field. | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) | A more specific classification of the rock | Obsidian |
| rockClass | Required | 1 | [RCS](https://www.bgs.ac.uk/technologies/bgs-rock-classification-scheme/) | Can be of three classes: Igneous, Sedimentary, or Metamorphic  \*only used if item is a rock\* Will be in the description field  Format: capitalize first letter, rest lowercase | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) | Description of rock class | Igneous |
| size | Required | 1 |  | Measuring , in centimeters the longest point front to back and side to side.  Format: l x w cm. | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) |  | 23 x 26 cm. |
| weight | Required | 1 |  | Measured in ounces  Format: (weight) oz. | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) |  | 10 oz. |
| color | Required | Any value |  |  | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) |  | Light pink |
| texture | Recommended | Any value |  | Words and/or short phrases that provide basic sensory description of object’s surface | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) |  | Gritty, like sand |
| description | Recommended | Any value |  | Format: Basic sentences separated by periods. | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) | Should provide a basic visual description of object alongside other information not included in other fields. | This quartz rock is pink with white veins going through it. |
| latitude | Required | 1 |  | Input as much information as provided by Google Maps.  DO NOT ROUND! | [Coverage](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#coverage) | Use Google Maps | 63.235989 |
| longitude | Required | 1 |  | Input as much information as provided by Google Maps.  DO NOT ROUND! | [Coverage](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#coverage) | Use Google Maps | -150.838823 |
| mineralType | Required | 1 | [EarthRef Mineral Classification](https://earthref.org/cgi-bin/er-s1-controlled-vocabularies.cgi?database_name=er&search_start=controlled-vocabularies&category=mineral_class_name) | Use the Mineral Classification to identify the mineral.  \*only used if item is a mineral\* | [Description](https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#description) |  | Quartz |

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| Explaining Cardinality: Legend | |
| 1 | There will be only 1 value for this property  i.e. only 1 title or objectid will be associated with an item |
| Any value, usually 1 | There can be more than 1 value for this property, but usually only 1 |
| Any value | Any number of values can be input for this property |