

# Package: deeptimedata (via r-universe)

October 4, 2026

**Title** Geologic Pattern Data from FGDC Used in 'deeptime'

**Version** 1.0.0

**Maintainer** William Gearty <willgearty@gmail.com>

**Description** Geologic pattern data from  
<[https://ngmdb.usgs.gov/fgdc\\_gds/geolsymstd.php](https://ngmdb.usgs.gov/fgdc_gds/geolsymstd.php)>. Access  
functions are provided in the accompanying package 'deeptime'.

**URL** <http://williamgearty.com/deeptimedata/>,  
<https://github.com/willgearty/deeptimedata>

**BugReports** <https://github.com/willgearty/deeptimedata/issues>

**Depends** R (>= 2.10)

**License** GPL (>= 3)

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**LazyData** true

**Suggests** grImport2, rsvg, usethis

**Roxygen** list(markdown = TRUE)

**Repository** <https://r-multiverse-staging.r-universe.dev>

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**RemoteUrl** <https://github.com/willgearty/deeptimedata>

**RemoteRef** 7f1d9e301bac0d580f93c168328ef2aaad490aca

**RemoteSha** 7f1d9e301bac0d580f93c168328ef2aaad490aca

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 geo\_grobs

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*FGDC Geologic Pattern Data*


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### Description

Geologic map and lithology patterns as defined in the [FGDC Digital Cartographic Standard for Geologic Map Symbolization](#) by the U.S. Geological Survey and the [Geologic Data Subcommittee \(GDS\)](#) of the [Federal Geographic Data Committee \(FGDC\)](#). `deeptime::geo_grob()` and `deeptime::geo_pattern()` should be used to retrieve and modify an individual pattern as a `grob` object or `GridPattern` object, respectively.

### Usage

```
geo_grobs
```

### Format

A list, where each item corresponds to a geologic pattern stored as a `gTree` object as returned by `grImport2::pictureGrob()`. The names of the list correspond to the pattern codes.

### Details

For specific pattern codes, see the "pattern numbers" in the [full pattern chart](#). Daven Quinn has also assembled more accessible documentation of the [map patterns/codes](#) and [lithology patterns/codes](#). `rmacrostrat::def_lithologies()` can also be used to look up pattern codes for various lithologies (see the "fill" column). Note that patterns associated with color variants (e.g., "101-M") are not included but can be created using `deeptime::geo_grob()`.

These patterns were originally processed and optimized by Daven Quinn and are hosted on [GitHub](#).

### Source

[https://ngmdb.usgs.gov/fgdc\\_gds/geolsymstd.php](https://ngmdb.usgs.gov/fgdc_gds/geolsymstd.php) via <https://github.com/davenquinn/geologic-patterns>

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