

Crosswalk between NOAA FGDC, MARC21, and Dublin Core Metadata Standards

| M v s O | FGDC Fields | Field Names | MARC21 Fields | Field Names | Dublin Core Elements | Dublin Core Qualifiers |
|------------------|----------------|---|---|--------------------------------------|----------------------------|---------------------------|
| M | 1.1.8.1 | Originator | 100,110,111, 700,710,711 | Author | Creator/not Contributor | |
| M | 1.1.8.2 | Publication date | 260 c | Publication Date | Date | |
| M | 1.1.8.4 | Title | 245 a,b | Title | Title | |
| | | | 130, 210,240, 242, 246,730, 740 | Title/Title variant | Title | Alternative |
| M | 1.1.8.5 | Edition | 250 | Edition | Description | Edition |
| M | 1.1.8.6 | Geospatial data presentation form | 500 | Notes | Description | |
| M | 1.1.8.7.1 | Series name | 440 a, 410 except v, 810 except v; 830 a | Series title | | |
| M | 1.1.8.7.2 | Issue identification | 410 v, 440 v, 810 v, 830 v | Series number | Relation | IsPartOf |
| M | 1.1.8.8.1 | Publication place | 260 a | Publication place | Publisher | |
| M | 1.1.8.8.2 | Publisher | 260 b | Publisher | Publisher | |
| M | 1.1.8.8.10 | Online linkage | 856 u | Electronic location and access | Identifier | |
| M | 1.2.1 | Abstract | 520 | Summary, etc. note | Description | Abstract |
| M | 1.2.2 | Purpose | 500 | General notes | Description | |
| | | | | | | |

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|------------------|----------------|---|---------------------|--|-------------------------|------------------------------|
| O | 1.2.4 | NOAA supplemental information: | 500-590 | General notes- Local notes | Description | Description |
| | 1.2.4.1 | Entry ID | 500-590 | General notes- Local notes | Description | |
| | 1.2.4.2 | Sensor name | 500-590 | General notes- Local notes | Description | |
| | 1.2.4.3 | Source name | 500-590 | General notes- Local notes | Description | |
| | 1.2.4.4 | Project | 500-590/ 700-793 | General notes- Local notes/Added entries | Description | |
| | 1.2.4.5. | Originating center | 500-590/ 700-793 | General notes- Local notes/Added entries | Description | |
| | 1.2.4.6 | Storage medium | 500-590 | General notes- Local notes | Description | |
| | 1.2.4.7 | Reference | 500-590? | General notes- Local notes | Description | |

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| M v O | FGDC fields | Field Names | MARC2 1 Fields | Field Names | Dublin Core Elements | Dublin Core Qualifiers |
| M | 1.3.1 | Currentness reference | 500 | General notes | Descriptio n | |
| M | 1.3.9.3.1 | Range of dates/Times: Beginning date | 045 b/ 033 a/ 500/ 513 b | Time period of content/ Data, time, and place of an event/ General notes/ Period covered note | Coverage | Temporal |
| M | 1.3.9.3.2 | Beginning time | 037 c/ 033 a | Source of acquisition/ Terms of availability/ Data, time, and place of an event | Coverage | Temporal |
| M | 1.3.9.3.3 | Ending date | 045 b/ 033a/ 500/ 513 b | Time period of content/ Data, time, and place of an event/ General notes | Coverage | Temporal |
| M | 1.3.9.3.3 | Ending time | 037 c/ 033 a | Source of acquisition/ Terms of availability/ Data, time, and place of an event | | |
| M | 1.4.1 | Progress | 583 l | Action note | Descriptio n | |
| M | 1.4.2 | Maintenance and update frequency | 310 a | Current publication frequency | | |
| M | 1.5.1.1 | Bounding coordinates: West bounding coordinates | 034 d | Coded geographic mathematical data: Westernmost longitude | Coverage | Spatial |
| M | 1.5.1.2 | East bounding coordinates | 034 e | Easternmost longitude | Coverage | Spatial |
| M | 1.5.1.3 | North bounding coordinates | 034 f | Northernmost latitude | Coverage | Spatial |
| M | 1.5.1.4 | South bounding coordinates | 034 g | Southernmost latitude | Coverage | Spatial |
| M | 1.5.2.1 | G ring latitude | 034 s | G-ring latitude | | |

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| | | G ring longitude | 034 t | G-ring longitude | | |
| M | 1.6.1.1/ 1.6.1.2 | Theme keyword/ Theme keyword thesaurus | 650 a/ 650 2/ 653 | Subject added entry - topical term/ Index term - uncontrolled | Subject | LCSH |
| M | 1.6.2.1/ 1.6.2.2 | Place keyword/ Place keyword thesaurus | 651 a/ 651 2/ 653 | Subject added entry - geographic name/ Index term - uncontrolled | Coverage | Spatial TGN |
| M | 1.7 | Access constraints | 506 a | Restrictions on access note | Rights | |
| M | 1.8 | Use constraints | 540 a | Terms governing use and reproduction note | Rights | |
| M | 1.9.10.1 | Point of contact: Contact person | 270 p | Primary address: Contact person | | |
| M | 1.9.10.2 | Contact organization | 270 a | Contact | | |
| M | 1.9.10.3 | Contact position | 270 q | Title of contact person | | |
| M | 1.9.10.4.1 | Address type | 270 i | Type of address | | |
| M | 1.9.10.4.2 | Address | 270 a | Address | | |
| M | 1.9.10.4.3 | City | 270 b | City | | |
| M | 1.9.10.4.4 | State or province | 270 c | State or province | | |
| M | 1.9.10.4.5 | Postal code | 270 e | Postal code | | |
| M | 1.9.10.4.6 | Country | 270 d | Country | | |
| M | 1.9.10.5 | Contact voice telephone | 270 k | Telephone number | | |
| M | 1.9.10.6 | Contact TDD/TTY telephone | 270 n | TDD or TTY number | | |
| M | 1.9.10.7 | Contact facsimile telephone | 270 l | Fax number | | |
| M | 1.9.10.8 | Contact electronic mail address | 270 m | Electronic mail address | | |
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| M | 1.9.10.9 | Hours of service | 270 r | Hours | | |
| M | 2.1.1 | Data quality information: Attribute accuracy report | 514 a | Data quality note: Attribute accuracy report | Descriptio n | |
| M | 2.1.2.1 | Attribute accuracy value | 514 b | Attribute accuracy value | Descriptio n | |
| M | 2.1.2.2 | Attribute accuracy explanation | 514 c | Attribute accuracy explanation | Descriptio n | |
| M | 2.2 | Logical consistency report | 514 d | Logical consistency report | Descriptio n | |
| M | 2.3 | Completeness report | 514 e | Completeness report | Descriptio n | |
| M | 2.4.1 | Horizontal positional accuracy report | 514 f | Horizontal positional accuracy report | Descriptio n | |
| M | 2.4.1.2.1 | Horizontal positional accuracy value | 514 g | Horizontal positional accuracy value | Descriptio n | |
| M | 2.4.1.2.2 | Horizontal positional accuracy explanation | 514 h | Horizontal positional accuracy explanation | Descriptio n | |
| M | 2.4.2.1 | Vertical positional accuracy report | 514 i | Vertical positional accuracy report | Descriptio n | |
| M | 2.4.2.2.1 | Vertical positional accuracy value | 514 j | Vertical positional accuracy value | Descriptio n | |
| M | 2.4.2.2.2 | Vertical positional accuracy explanation | 514 k | Vertical positional accuracy explanation | Descriptio n | |
| M | 2.5.1.2 | Lineage: | 786 m | Data source entry: | Relation | |

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| M v O | FGDC fields | Field Names | MARC2 1 Fields | Field Names | Dublin Core Elements | Dublin Core Qualifiers |
| | | Source scale denominator | | Material-specific details | | |
| M | 2.5.1.3 | Type of source media | 786 h | Physical description | Relation | |
| M | 2.5.1.4.1 | Source currentness reference | 786 j | Period of content | Relation | |
| | 2.5.1.5 | Source citation abbreviation | 786 p | ? | Relation | |
| M | 2.5.1.6 | Source contribution | 786 v | Source contribution | Relation | |
| M | 2.5.2.1 | Process description | 583 a | Action note: Action | Descriptio n | |
| M | 2.5.2.3 | Process date | 583 c | Time of action | Descriptio n | |
| M | 2.5.2.4 | Process time | 583 c | time of action | Descriptio n | |
| M | 2.6 | Cloud cover | 514 m | Cloud cover | Descriptio n | |
| M | 3.1 | Indirect spatial reference | 352 i | Digital graphic representation: Indirect reference description | | |
| M | 3.2 | Direct spatial reference method | 352 a | Direct reference method | | |
| M | 3.3.1.1 | SDTS point and vector object type | 352 b | Object type | | |
| M | 3.3.1.2 | Point and vector object count | 352 c | Object count | | |
| M | 3.3.2.1 | VPF topology level | 352 g | VPF topology | | |
| M | 3.3.2.2 | VPF point and vector object type | 352 b | Object type | | |
| M | 3.4.1 | Raster object type | 352 b | Object type | | |

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| M | 3.4.2 | Row count | 352 d | Row count | | |
| M | 3.4.3 | Column count | 352 e | Column count | | |
| M | 3.4.4 | Vertical count | 352 f | Vertical count | | |
| M | 4.1.1.1 | Spatial reference information: Latitude resolution | 342 c | Geospatial reference data: Latitude resolution | | |
| M | 4.1.1.2 | Longitude resolution | 342 d | Longitude resolution | | |
| M | 4.1.1.3 | Geographic coordinate units | 342 b | Coordinate or distance units | | |
| M | 4.1.2.1.1 | Map projection name | 342 a/ 255 b | Name/ Geographic mathematical data - Statement of projection | Coverage | Spatial |
| M | 4.1.2.1.2.1 | Standard parallel | 342 e | Standard parallel or oblique line latitude | | |
| M | 4.1.2.1.2.2 | Longitude of central meridian | 342 g | Longitude of central meridian or projection center | | |
| M | 4.1.2.1.2.3 | Latitude of projection origin | 342 h | Latitude of projection center or projection origin | | |
| M | 4.1.2.1.2.4 | False easting | 342 i | False easting | | |
| M | 4.1.2.1.2.5 | False northing | 342 j | False northing | | |
| M | 4.1.2.1.2.6 | Scale factor at equator | 342 k | Scale factor | | |
| M | 4.1.2.1.2.7 | Height of perspective point above surface | 342 l | Height of perspective point above surface | | |
| M | 4.1.2.1.2.8 | Longitude of projection center | 342 g | Longitude of projection center or projection origin | | |
| M | 4.1.2.1.2.9 | Latitude of projection center | 342 h | Latitude of projection center or projection origin | | |

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| M | 4.1.2.1.2.10 | Scale factor at center line | 342 k | Scale factor | | |
| M | 4.1.2.1.2.11.1 | Azimuth angle | 342 m | Azimuth angle | | |
| M | 4.1.2.1.2.11.2/ 4.1.2.1.2.13 | Azimuth measure point longitude/ Straight vertical longitude from pole | 342 n | Azimuth measure point longitude or straight vertical longitude from pole | | |
| M | 4.1.2.1.2.14 | Scale factor at projection origin | 342 k | Scale factor | | |
| M | 4.1.2.1.2.15/ 4.1.2.1.2.16 | Lansat number/ Path number | 342 o | Lansat number and path number | | |
| M | 4.1.2.1.2.17 | Scale factor at central meridian | 342 k | Scale factor | | |
| M | 4.1.2.4.3.1 | Distance resolution | 343 e | Planar coordinate data: Distance resolution | | |
| M | 4.1.2.4.3.2 | Bearing resolution | 343 f | Bearing resolution | | |
| M | 4.1.2.4.3.3 | Bearing units | 343 g | Bearing units | | |
| M | 4.1.2.4.3.4 | Bearing reference direction | 343 h | Bearing reference direction | | |
| M | 4.1.2.4.3.5 | Bearing reference meridian | 343 i | Bearing reference meridian | | |
| M | 4.1.2.4.4 | Planar distance unit | 343 b | Planar distance unit | | |
| M | 4.1.3.1 | Local description | 342 v | Local planar, local, or other projection or grid description | | |
| M | 4.1.3.2 | Local georeference information | 342 w | local planar or local georeference information | | |
| M | 4.1.4.1 | Horizontal datum name | 342 a | Name | | |

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| M | 4.1.4.2 | Ellipsoid name | 342 q | Ellipsoid name | | |
| M | 4.1.4.3 | Semi major axis | 342 r | Semi-major axis | | |
| M | 4.1.4.4 | Denominator of flattening ratio | 342 s | Denominator of flattening ratio | | |
| M | 4.2.1.1 | Altitude system Definition: Altitude datum name | 342 a | Name | | |
| M | 4.2.1.2 | Altitude resolution | 342 t | Vertical resolution | | |
| M | 4.2.1.3 | Altitude distance unit | 342 b | Coordinate or distance units | | |
| M | 4.2.1.4 | Altitude encoding method | 342 u | Vertical encoding method | | |
| M | 4.2.2.1 | Depth datum name | 342 a | Name | | |
| M | 4.2.2.2 | Depth resolution | 342 t | Vertical resolution | | |
| M | 4.2.2.3 | Depth distance unit | 342 b | Coordinate or distance units | | |
| M | 4.2.2.4 | Depth encoding method | 342 u | Vertical encoding method | | |
| M | 5.1.1 | Entity type information: | 551 | Entity and attribute information note: | | |
| M | 6.1 6.1.10.2.1 | Distributor: Contact organization | 037 b n/ 260 b | Source of acquisition/ Publisher/Distributor | Publisher | |
| M | 6.4.2.2.1.1.1.1 | Network Resource name | 856 f | Electronic location and access: Electronic name | | |
| M | 6.4.2.2.1.1.2.1 6.4.2.2.1.1.2.2 | Lowest bps/ Highest bps | 856 j | Bits per second | | |
| M | 6.4.2.2.1.1.2.3 6.4.2.2.1.1.2.4 6.4.2.2.1.1.2.5 | Number databits/ Number stopbits/ Parity | 856 r | Settings | | |
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| M v O | FGDC fields | Field Names | MARC2 1 Fields | Field Names | Dublin Core Elements | Dublin Core Qualifiers |
| M | 6.4.2.2.1.1.2.6 | Compression support | 856 c | Compression information | | |
| M | 6.4.2.2.1.1.2.7 | Dialup telephone | 856 b | Access number | | |
| M | 6.4.2.2.1.1.2.8 | Dialup file name | 856 f | Electronic name | | |
| | 6.4.2.2.1.2 | Access instructions | 856 i | Instruction | | |
| M | 6.4.2.2.1.3 | Online computer and operating system | 856 o | Operating system | | |
| M | 7.1 | Metadata Reference information: Metadata date | 583 c | Action note: Time/Date of action | | |
| M | 7.2 7.3 | Metadata review date/ Metadata future review date | 583 z | Public note | | |
| M | 7.5 7.6 | Metadata standard name/ Metadata standard version | 583 f | Authorization | | |
| M | 7.7 | Metadata time conversion | 583 z | Public note | | |
| M | 7.8 | Metadata access constraints | 506 3/ 506 a | Restriction on access notes: Materials specified/ Terms governing access | Rights | |
| M | 7.9 | Metadata use constraints | 540 3/ 540 a | Terms governing use and reproduction note: Materials specified/ Terms governing use and reproduction | Rights | |
| M | 7.10.1 | Metadata security classification system | 355 c | Security classification control: External dissemination information | | |
| M | 7.10.2 | Metadata security classification | 355 a | Security classification | | |

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| M v O | FGDC fields | Field Names | MARC2 1 Fields | Field Names | Dublin Core Elements | Dublin Core Qualifiers |
| M | 7.10.3 | Metadata security handling description | 355 b | Handling instruction | | |

Tables present crosswalk from FGDC to MARC21 and Dublin Core metadata standards. It consists of essential FGDC elements (NOAA FGDC Metadata Standard Template) and is also somewhat based on standard crosswalks prepared by Library of Congress (Elizabeth Mangan. 1999)

M - Mandatory/Mandatory if applicable

O - Optional

Draft 2/23/2003

