



Natural Resources
Canada
Geomatics Canada

Ressources naturelles
Canada
Géomatique Canada



CanMatrix (Raster Topographic Maps)

Metadata Format

**Centre for Topographic Information
Customer Support Group**
2144 King Street West, Suite 010
Sherbrooke (Quebec) CANADA J1J 2E8
1 800 661-2638 (Canada and the United States)
<http://www.ctis.NRCan.gc.ca>

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Canada

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- **Number of lines:** The fourth information provides the maximum number of lines that can be used for this key word (example: 4L for 4 lines maximum).

Example:

| | | | |
|--------------------|-------------|-------------|-----------|
| MAP_EDITION | N(2) | A(0) | 1L |
|--------------------|-------------|-------------|-----------|

3.1- TERRITORY Section

The TERRITORY Section initiates the metadata file. It contains the metadata linked to the territory represented. The data must comply with the following format and order.

| | | | |
|--------------|--------------|-------------|-----------|
| BEGIN | A(30) | A(0) | 1L |
|--------------|--------------|-------------|-----------|

The key word BEGIN is associated with the FILE value to indicate the file's beginning.

| | | | |
|--------------|--------------|-------------|-----------|
| BEGIN | A(30) | A(0) | 1L |
|--------------|--------------|-------------|-----------|

The BEGIN key word is associated with the TERRITORY_SECTION value to indicate the beginning of the section.

| | | | |
|------------|-------------|-------------|-----------|
| NTS | A(8) | A(0) | 1L |
|------------|-------------|-------------|-----------|

Territory number according to National Topographic System (NTS) sectioning for Canada at 1:50 000 or 1:250 000 scale. For special NTS coverages, the number corresponds to the main sheet coverage. The NTS number format follows these rules:

- 1: 50 000 031G01 6 characters
- 1: 50 000 031G01_E and/or 031G01_W 8 characters (for East and West sheets)
- 1: 250 000 031G 4 characters

| | | | |
|----------------------|--------------|-------------|-----------|
| DATA_SET_NAME | A(30) | A(0) | 1L |
|----------------------|--------------|-------------|-----------|

Name associated to the data set. The name of a territory deriving from a map sheet (topographic map) border break corresponds to the NTS number.

| | | | |
|-----------------|-------------|--------------|-----------|
| PROVINCE | A(2) | A(27) | 4L |
|-----------------|-------------|--------------|-----------|

Provinces (or Territories) ordered by decreasing order of the percentage of territory they occupy. More than one province (or Territory) may be supplied by repeating the key word and by giving different values.

| | | | |
|----------------------|-------------|-------------|-----------|
| ZONE_NUMBER_2 | N(2) | A(0) | 1L |
|----------------------|-------------|-------------|-----------|

Value included between 7 and 23 corresponding to the UTM zone.

Note: Secondary UTM zone inside of which a portion of the data set territory may be located. This information is only an indication of the UTM zones touching the territory referred to. The data set cartographic coordinate system never refers to this zone. When a territory is totally located inside a unique UTM zone, this specific UTM zone's value is assigned to ZONE_NUMBER_1 and the value «-1» is assigned to ZONE_NUMBER_2.

PCT_OF_LAND **N(3)** **A(0)** **1L**

| | | | |
|-------------------|-------------|--------------|-----------|
| STYLE_CODE | A(1) | A(15) | 1L |
|-------------------|-------------|--------------|-----------|

This field indicates the map type. 5 values are possible : 'P' for polychrome map; 'M' for monochrome map; 'V' for provisional; 'A' for photomap; 'L' for planimetric.

| | | | |
|-------------------|--------------|-------------|-----------|
| VALID_DATE | A(10) | A(0) | 1L |
|-------------------|--------------|-------------|-----------|

EXAMPLE OF A METADATA DATASET

```
BEGIN          FILE
!
BEGIN          TERRITORY_SECTION
NTS           069H13
DATA_SET_NAME MEIGHEN ISLANDS
PROVINCE      NU (Nunavut)
ZONE_NUMBER_1 14
ZONE_NUMBER_2 -1
PCT_OF_LAND   80
END           TERRITORY_SECTION
!
BEGIN          DATA_SET_SECTION
EDITION_VERSIO 1.00
SPEC           1.0 (Standards 1.0)
DATE_AVAILABLE 2002/06/20
MAP_EDITION    1
EAST_WEST      C (Full)
STYLE_CODE     V (Provisional)
VALID_DATE     1959
PUBLISH_DATE   1965
PLAN_ACCURACY B (50m. (50K)/250m. (250K))
ALTI_ACCURACY 1 (10m. (50K)/50m. (250K))
UNIT_CONTOURS  M (Meter)
CONTOUR_INTERV 10
CONT_AUXILIARY 0
DATUM          NAD83 (North American Datum of 1983)
SCAN_RESOLUTIO 3.0000 (m. (423 dpi))
RADIOMETRY     8 (bits)
FORMAT         GEO_TIFF
COMMENT        Has as extrusions / A pour crevé(s) : 069G16 069H11
COMMENT        069H12 069H14
COMMENT        Is an extrusion of / Est crevé de : 560B02
END           DATA_SET_SECTION
!
END           FILE
```

APPENDIX A - Domain values and authorized combinations

Some fields must respect predefined domain values. When an entry contains more than one distinct part, the domain of each part is listed along with its authorized combinations for the entry. The domain values will evolve to better respond to the change of the production environment and then describe the phenomena we want to keep and classify.

TERRITORY Section

NTS

- Any valid NTS number for Canadian territory at 1:50 000 and 1:250 000 scales.

PROVINCE

- AB Alberta
- BC British Columbia
- FR France
- GL Greenland
- MB Manitoba
- NB New Brunswick
- NF Newfoundland
- NS Nova Scotia
-
- NF aNunavut1 Tf-0.4578 -1.2169 TD0 Tc0 Tw()Tj/TT2 1 Tf0.4578 0 TD0.0017tis 66COnnS
-

STYLE_CODE

- P Polychrome map
- M Monochrome map
- V Provisional map
- A Photomap
- L Planimetric map

PLAN_ACCURACY

- A 25 meters (50K)/75 meters (250K)
- B 50 meters (50K)/250 meters (250K)
- C 75 meters (50K)/375 meters (250K)
- D >100 meters (50K)/>500 meters (250K)
- E Unknown

ALTI_ACCURACY

- 0 5 meters (50K)/25 meters (250K)
- 1 10 meters (50K)/50 meters (250K)
- 2 20 meters (50K)/100 meters (250K)
- 3 >20 meters (50K)/>100 meters (250K)
- 4 Unknown

UNIT_CONTOUR

- M Meter
- P Foot