# EPSG Geodetic Parameter Dataset Terms of Use

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5. Subsets of information may be extracted from the dataset. Users are advised that coordinate reference system and coordinate transformation descriptions are incomplete unless all elements detailed as essential in IOGP Surveying and Positioning Guidance Note 7-1 Annex A are included.

6. Essential elements should preferably be reproduced as described in the dataset. Modification of parameter values is permitted as described in the table below to allow change to the content of the information provided that numeric equivalence is achieved. Numeric equivalence refers to the results of geodetic calculations in which the parameters are used, for example (i) conversion of ellipsoid defining parameters, or (ii) conversion of parameters between one and two standard parallel projection methods, or (iii) conversion of parameters between 7-parameter geocentric transformation methods.

7. No data that has been modified other than as permitted in these Terms of Use shall be attributed to the EPSG Dataset.

## Table 1: permitted modifications of data

| AS GIVEN IN EPSG DATASET || PERMITTED CHANGE FOR VENDORS/USERS TO ADOPT |

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| \*Change of ellipsoid defining parameters.\* |||

| 1a | Ellipsoid parameters a and b. | a and 1/f ; a and f; a and e; a and e2. |

| 1b | Ellipsoid parameters a and 1/f. | a and b; a and f; a and e; a and e2. |

| \*Change of projection method\* |||

| 2a | Lambert Conic Conformal (1 SP) method with projection parameters φO and kO. | Lambert Conic Conformal (2 SP) method with projection parameters φ1 and φ2. |

| 2b | Lambert Conic Conformal (2 SP) method with projection parametersφ1 and φ2. | Lambert Conic Conformal (1 SP) method with projection parameters φO and kO. |

| 3a | Mercator (variant A) method with projection parameters φO and kO. | Mercator (variant B) method with projection parameter φ1. |

| 3b | Mercator (variant B) method with projection parameter φ1. | Mercator (variant A) method with projection parameters φO and kO. |

| 4a | Hotine Oblique Mercator (variant A) method with projection parameters FE and FN. | Hotine Oblique Mercator (variant B) method with projection parameters EC and NC. |

| 4b | Hotine Oblique Mercator (variant B) method with projection parameters EC and NC. | Hotine Oblique Mercator (variant A) method with projection parameters FE and FN. |

| 5a | Polar Stereographic (Variant A) method with projection parameters φO and kO. | Polar Stereographic (Variant B) method with projection parameter φF. |

| 5b | Polar Stereographic (Variant B) method with projection parameter φF. | Polar Stereographic (Variant A) method with projection parameters φO and kO. |

| 5c | Polar Stereographic (Variant A) method with projection parameters φO, kO, FE and FN. | Polar Stereographic (Variant C) method with projection parameters φF, EF and NF. |

| 5d | Polar Stereographic (Variant C) method with projection parameters φF, EF and NF. | Polar Stereographic (Variant A) method with projection parameters φO, kO, FE and FN. |

| 5e | Polar Stereographic (Variant B) method with projection parameter FE and FN. | Polar Stereographic (Variant C) method with projection parameters EF and NF. |

| 5f | Polar Stereographic (Variant C) method with projection parameters EF and NF. | Polar Stereographic (Variant B) method with projection parameter FE and FN. |

| Change of transformation method | | |

| 6a | Position Vector 7-parameter transformation method parameters RX RY and RZ. | Coordinate Frame transformation method with signs of position vector parameters RX RY and RZ reversed. |

| 6b | Coordinate Frame transformation method parameters RX RY and RZ. | Position Vector 7-parameter transformation method with signs of coordinate frame parameters RX RY and RZ reversed. |

| 7 | Concatenated transformation using geocentric methods (Geocentric translations, Position Vector 7-parameter transformation, Coordinate Frame rotation). | Equivalent single geocentric transformation in which for each parameter the parameter values of the component steps have been summed. |

| \*Change of units\* |||

| 8 | NTv2 method grid file filename. | NTv2 method grid file relative storage path with file name including removal (if necessary) of “special characters” [spaces, parentheses, etc] which are replaced by underscore characters. |

| 9 | Parameter value. | Convert unit to another, for example from microradian to arc-second, using conversion factors obtained from the EPSG dataset Unit table. |

<cite>source: [https://epsg.org/terms-of-use.html](https://epsg.org/terms-of-use.html)</cite>