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Table 1: permitted modifications of data

As given in EPSG dataset Permitted change for vendors/users to adopt

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 ϕ_0 and k_0 . Lambert Conic

Conformal (2 SP) method with projection parameters ϕ_1 and ϕ_2 .

2b Lambert Conic Conformal (2 SP) method with projection parameters ϕ_1 and ϕ_2 . Lambert Conic

Conformal (1 SP) method with projection parameters ϕ_0 and k_0 .

3a Mercator (variant A) method with projection parameters ϕ_0 and k_0 . Mercator (variant B)

method with projection parameter ϕ_1 .

3b Mercator (variant B) method with projection parameter ϕ_1 . Mercator (variant A) method with projection parameters ϕ_O and k_O .

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 ϕ_O and k_O . Polar Stereographic (Variant B) method with projection parameter ϕ_F .

5b Polar Stereographic (Variant B) method with projection parameter ϕ_F . Polar Stereographic (Variant A) method with projection parameters ϕ_O and k_O .

5c Polar Stereographic (Variant A) method with projection parameters ϕ_O , k_O , FE and FN. Polar Stereographic (Variant C) method with projection parameters ϕ_F , EF and NF.

5d Polar Stereographic (Variant C) method with projection parameters ϕ_F , EF and NF. Polar Stereographic (Variant A) method with projection parameters ϕ_O , k_O , 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.

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