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| --- | --- | --- |
| Common EPSG codes - Coordinate Reference Systems – Australia | | |
| EPSG Code | **CRS Name** | **CRS Type** |
| 28349 | MGA zone 49 (GDA94) | ProjectedCRS |
| 28350 | MGA zone 50 (GDA94) | ProjectedCRS |
| 28351 | MGA zone 51 (GDA94) | ProjectedCRS |
| 28352 | MGA zone 52 (GDA94) | ProjectedCRS |
| 28353 | MGA zone 53 (GDA94) | ProjectedCRS |
| 28354 | MGA zone 54 (GDA94) | ProjectedCRS |
| 28355 | MGA zone 55 (GDA94) | ProjectedCRS |
| 28356 | MGA zone 56 (GDA94) | ProjectedCRS |
| 28357 | MGA zone 57 (GDA94) | ProjectedCRS |
| 7849 | MGA2020 Zone 49 | ProjectedCRS |
| 7850 | MGA2020 Zone 50 | ProjectedCRS |
| 7851 | MGA2020 Zone 51 | ProjectedCRS |
| 7852 | MGA2020 Zone 52 | ProjectedCRS |
| 7853 | MGA2020 Zone 53 | ProjectedCRS |
| 7854 | MGA2020 Zone 54 | ProjectedCRS |
| 7855 | MGA2020 Zone 55 | ProjectedCRS |
| 7856 | MGA2020 Zone 56 | ProjectedCRS |
| 7857 | MGA2020 Zone 57 | ProjectedCRS |
| 3395 | WGS84 / World Mercator | ProjectedCRS |
| 3857 | WGS84 / Pseudo Mercator | ProjectedCRS – WebMapping |
|  |  |  |
| 6283 | GDA94 | Geodetic Datum |
| 1168 | GDA2020 | Geodetic Datum |
| 1291 | ATRF2014 | Geodetic Datum |
| 6326 | WGS 84 | Geodetic Datum – Ensemble Accuracy 2m |
| 5111 | AHD | Vertical Datum |
| 1292 | AVWS | Vertical Datum |
|  |  |  |
| 4938 | GDA94 | Geocentric, Cartesian CS |
| 7842 | GDA2020 | Geocentric, Cartesian CS |
| 9307 | ATRF2014 | Geocentric, Cartesian CS |
| 4978 | WGS 84 | Geocentric, Cartesian CS |
|  |  |  |
| 4939 | GDA94 | Geographic 3D |
| 7843 | GDA2020 | Geographic 3D |
| 9308 | ATRF2014 | Geographic 3D |
| 4979 | WGS 84 | Geographic 3D |
|  |  |  |
| 4283 | GDA94 | Geographic 2D |
| 7844 | GDA2020 | Geographic 2D |
| 9309 | ATRF2014 | Geographic 2D |
| 4326 | WGS 84 | Geographic 2D |
|  |  |  |
| 5711 | AHD Height | VerticalCRS |
| 9464 | GDA94 + AHD height | CompoundCRS |
| 9463 | GDA2020 + AHD height | CompoundCRS |
| (proposed) | ATRF2014 + AHD Height | CompoundCRS |
|  |  |  |
| 9458 | AVWS Height | VerticalCRS |
| (not defined) | GDA94 + AVWS height | CompoundCRS |
| 9462 | GDA2020 + AVWS height | CompoundCRS |
| ~~(proposed)~~ | ~~ATRF2014 + AVWS Height~~ | ~~CompoundCRS~~ |

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| Common EPSG codes – Transformations – Australia [Updated Jan 2021] | | | | |
| EPSG Code | **Name** | **Type / Description** | **Accuracy** |
| 8048 | GDA94 to GDA2020 (1) | 7 parameter transformation | 0.01 m |
| 8447 | GDA94 to GDA2020 (2) | NTv2 Conformal and Distortion transformation | 0.05 m |
| 8446 | GDA94 to GDA2020 (3) | NTv2 Conformal transformation | 0.05 m |
|  |  |  |  |
| 6276 | ITRF2008 to GDA94 (1) | 15 parameter transformation. ITRF2008 is latest realization linked to GDA94 | 0.03 m |
| 9682 - New | ITRF2014 to GDA94 (1) | 15 parameter Tf: ITRF2014 via GDA2020 to GDA94: Concatenation of 8049 plus 8048-reversed | 0.035m |
| 9683 - New | ITRF2014 to GDA94 (2) | Concatenated Tf: ITRF2014 via GDA2020 to GDA94: Concatenation of 8049 with 8447 (NTV2) | 0.06m |
| 8049 | ITRF2014 to GDA2020 (1) | 3 parameter plate rotation to account for motion. | 0.03 m |
| 9460 | ITRF2014 to ATRF2014 (1) | Null Transformation | 0.01 m |
|  |  |  |  |
| 9684 - New | ATRF2014 to GDA94 (1) | 15 Parameter Tf: ATRF2014 via GDA2020 to GDA94: Concatenation of 9459 plus 8048-rev | 0.035m |
| 9685 - New | ATRF2014 to GDA94 (2) | Concatenated Tf: ATRF2014 via GDA2020 to GDA94: Concatenation of 9459 with 8447 (NTV2) | 0.06m |
| 9459 | ATRF2014 to GDA2020 (1) | ATRF2014 movement relative to GDA2020 due to Australian tectonic plate motion | 0.03 m |
|  |  |  |  |
| 1150 | GDA94 to WGS 84 (1) | Null Transformation to WGS84 ensemble **Approximation at +/- 3m** using assumption that GDA94 is equivalent to **low accuracy WGS 84 (ensemble)** | 3 m |
| 9688 - New | GDA94 to WGS 84 (2) | [Non-Null] 7 parameter transformation: Equivalent to 8048 plus (null) 8450 | 3 m |
| 9689 - New | GDA94 to WGS 84 (3) | [Non-Null] NTv2 Conformal & Distortion: Equivalent to 8447 plus (null) 8450 | 3 m |
| 8450 | GDA2020 to WGS 84 (2) | Null Transformation to WGS84 ensemble **Approximation at +/- 3m** using assumption that GDA2020 is equivalent to **low accuracy WGS 84 (ensemble)** | 3 m |
| 9690 - New | WGS 84 to GDA2020 (3) | [Non-Null] 7 parameter transformation: Equivalent to 8048 plus (null) 1150 | 3m |
| 9691 - New | WGS 84 to GDA2020 (4) | [Non-Null] NTv2 Conformal & Distortion: Equivalent to 8447 plus (null) 1150 | 3m |
|  |  |  |  |
| 9686 - New | GDA94 to WGS 84 (G1762) (1) | 15 Parameter Tf: GDA94 via GDA2020 to WGS 84: Concatenation of 8048 and 8448 | 0.25m |
| 9687 - New | GDA94 to WGS 84 (G1762) (2) | Concatenated Tf: GDA94 via GDA2020 to WGS 84: Concatenation of 8447 (NTv2) with 8448 | 0.25m |
| 8448 | GDA2020 to WGS 84 (G1762) (1) | 3 parameter plate rotation to account for motion.  Assumes WGS84 (not ensemble) = ITRF14 = GDA2020 at epoch 2020.0 | 0.2 m |
| Continued next page for AHD and AVWS transformations. | | | |

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| Common EPSG codes – Transformations – Australia [Updated Jan 2021], continued. | | | | |
| 5656 | GDA94 to AHD height (49) | AusGeoid09 model; Replaces AusGeoid98. (For Reversible (3D-3D) alternative see 9467) | 0.15 m |
| 9467 | GDA94 to GDA94 + AHD height (1) | AusGeoid09 model; Replaces AusGeoid98. Reversible (3D-3D) alternative to 5656 | 0.15 m |
| 8451 | GDA2020 to AHD height (1) | AUSGeoid2020 with estimated errors. (For Reversible (3D-3D) alternative see 9466) | 0.15 m GSB |
| 9466 | GDA2020 to GDA2020 + AHD height (1) | AUSGeoid2020 with estimated errors. Reversible (3D-3D) alternative to 8451 | 0.15 m GSB |
| ~~9461 - DEP~~ | ~~GDA2020 to AVWS height (1)~~ | ~~AGQG yymmdd (Currently 20191107). (For Reversible (3D-3D) alternative see 9465)~~ | ~~0.1 m GSB~~ |
| ~~9465 - DEP~~ | ~~GDA2020 to  GDA2020 + AVWS height (1)~~ | ~~AGQG yymmdd (Currently 20191107). Reversible (3D-3D) alternative to 9461~~ | ~~0.1 m GSB~~ |
| 9692 | GDA2020 to AVWS height (2) | AGQG yymmdd (Currently 20201120). (For Reversible (3D-3D) alternative see 9693) | 0.1 m GSB |
| 9693 | GDA2020 to GDA2020 + AVWS height (2) | AGQG yymmdd (Currently 20201120). Reversible (3D-3D) alternative to 9692 | 0.1 m GSB |