

National Measurement (Recognized-Value Standard of Measurement of Position) Determination 2017

I, Dr R. Bruce Warrington, Chief Metrologist, National Measurement Institute, make the following determination.

Dated 11 October 2017

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Chief Metrologist

Contents

1 Name 1

2 Commencement 1

3 Authority 1

4 Definitions 1

5 Schedules 1

6 Recognized-value standards of measurement in the Australian Fiducial Network 1

7 Calculation of global Cartesian coordination at an epoch *t* years 2

Schedule 1—Recognized-value standards of measurement in the Australian Fiducial Network 3

Schedule 2—Repeals 9

Recognized-value standard of measurement of position 2012 (No. 1) 9

1 Name

 This instrument is the *National Measurement (Recognized-Value Standard of Measurement of Position) Determination 2017*.

2 Commencement

 This instrument commences the day after registration.

3 Authority

 This instrument is made under section 8A(1) of the *National Measurement Act 1960*.

4 Definitions

Note: ***Recognized-value standard of measurement*** is defined in the Act.

 In this instrument:

***Act*** means the *National Measurement Act 1960*.

***Reference Ellipsoid*** means the Geodetic Reference System 1980 (GRS80) ellipsoid with a semi-major axis (a) of 6 378 137 metres exactly and an inverse flattening (1/f) of 298.257 222 101.

Note: The Geodetic Reference System 1980 could in 2017 be viewed on the International Union of Geodesy and Geophysics (IUGG) website ([http://www.iugg.org](http://www.iugg.org/resolutions)).

***Reference Epoch*** means 2020.0.

***Reference Frame*** means the Geocentric Datum of Australia 2020 (GDA2020) realised by the coordinates of the Australian Fiducial Network (AFN) geodetic stations, referred to in Schedule 1 of this instrument, in the International Terrestrial Reference Frame 2014 (ITRF2014) at the Reference Epoch.

Note 1: The Geocentric Datum of Australia 2020 could in 2017 be viewed on the Intergovernmental Committee on Surveying and Mapping’s website ([http://www.icsm.gov.au](http://www.icsm.gov.au/gda/tech.html)).

Note 2: The International Terrestrial Reference Frame 2014 (ITRF2014) could in 2017 be viewed on the International Earth Rotation and Reference Systems Service’s (IERS) website ([https://www.iers.org](https://www.iers.org/TN38)).

5 Schedules

 Each instrument that is specified in a Schedule to this instrument is amended or repealed as set out in the applicable items in the Schedule concerned, and any other item in a Schedule to this instrument has effect according to its terms.

6 Recognized-value standards of measurement in the Australian Fiducial Network

1. The positions listed in Schedule 1 and in the stated Reference Ellipsoid and Reference Frame are recognized-value standards of measurement of the physical quantity position for geodetic stations in the Australian Fiducial Network (AFN).
2. Uncertainties listed in Schedule 1 are such that *X*±*u*(*X*) represents a 95% confidence interval, and similarly for the other quantities.
3. For conversion from global Cartesian coordinates to latitude, longitude and ellipsoidal height the Reference Ellipsoid must be used.

7 Calculation of global Cartesian coordinates at an epoch *t* years

 Global Cartesian coordinates of the AFN can be expressed at an epoch *t* (years) through the application of the following linear model using the coordinates
(*X*, *Y*, *Z*) and velocities (*VX*, *VY*, *VZ*) listed in Schedule 1:

$$\left[\begin{matrix}X\\Y\\Z\end{matrix}\right]\_{t}=\left[\begin{matrix}X\\Y\\Z\end{matrix}\right]\_{2020}+(t-2020)\left[\begin{matrix}V\_{X}\\V\_{Y}\\V\_{Z}\end{matrix}\right]$$

 This model is valid for 15 years either side of the Reference Epoch:

$$\left|t-2020\right|\leq 15$$

Schedule 1—Recognized-value standards of measurement in the Australian Fiducial Network

Note: See sections 6 and 7.

|  | **Coordinates (m) at 2020.0** | **Coordinate Uncertainty (m)** | **Velocity (m / year)** | **Velocity Uncertainty (m / year)** |
| --- | --- | --- | --- | --- |
| **Site** | ***X*** | ***Y*** | ***Z*** | ***u*(*X*)** | ***u*(*Y*)** | ***u*(*Z*)** | ***VX*** | ***VY*** | ***VZ*** | ***u*(*VX*)** | ***u*(*VY*)** | ***u*(*VZ*)** |
| Ceduna (SA)  | -3753473.1960 | 3912741.0310 | -3347959.6998 | 0.0244 | 0.0249 | 0.0229 | -0.0421 | 0.0024 | 0.0501 | 0.0002 | 0.0002 | 0.0002 |
| Manton Dam (NT) | -4091359.6096 | 4684606.4258 | -1408579.1371 | 0.0098 | 0.0105 | 0.0072 | -0.0355 | -0.0137 | 0.0576 | 0.0002 | 0.0001 | 0.0002 |
| Mt Stromlo (ACT) | -4467103.2062 | 2683039.4818 | -3666948.7613 | 0.0100 | 0.0080 | 0.0090 | -0.0367 | 0.0006 | 0.0452 | 0.0002 | 0.0002 | 0.0002 |
| Sydney (NSW) | -4648240.8666 | 2560636.4510 | -3526317.7982 | 0.0107 | 0.0082 | 0.0093 | -0.0352 | -0.0015 | 0.0453 | 0.0002 | 0.0002 | 0.0002 |
| Tidbinbilla (ACT) | -4460996.9609 | 2682557.0875 | -3674442.6411 | 0.0104 | 0.0082 | 0.0093 | -0.0368 | 0.0007 | 0.0452 | 0.0002 | 0.0002 | 0.0002 |
| Hobart (TAS) | -3950072.2586 | 2522415.3710 | -4311637.4095 | 0.0094 | 0.0079 | 0.0098 | -0.0395 | 0.0083 | 0.0411 | 0.0002 | 0.0002 | 0.0002 |
| Melbourne (VIC) | -4130636.7623 | 2894953.1442 | -3890530.2534 | 0.0098 | 0.0083 | 0.0094 | -0.0393 | 0.0042 | 0.0448 | 0.0002 | 0.0002 | 0.0002 |
| Parkes (NSW) | -4554255.2088 | 2816652.4429 | -3454059.6981 | 0.0107 | 0.0085 | 0.0093 | -0.0363 | -0.0015 | 0.0467 | 0.0002 | 0.0002 | 0.0002 |
| Hillarys (WA) | -2355572.1203 | 4886093.2099 | -3343993.6599 | 0.0081 | 0.0112 | 0.0091 | -0.0478 | 0.0106 | 0.0491 | 0.0002 | 0.0001 | 0.0002 |
| Bundaberg (QLD) | -5125977.5335 | 2688801.2479 | -2669890.2146 | 0.0113 | 0.0082 | 0.0082 | -0.0311 | -0.0105 | 0.0490 | 0.0002 | 0.0002 | 0.0002 |
| Kalgoorlie (WA) | -2862346.1852 | 4678388.0851 | -3245553.1345 | 0.0091 | 0.0120 | 0.0096 | -0.0460 | 0.0069 | 0.0505 | 0.0002 | 0.0001 | 0.0002 |
| Norfolk Island (NSW) | -5457454.4185 | 1166108.4501 | -3078178.9928 | 0.0120 | 0.0071 | 0.0088 | -0.0245 | -0.0095 | 0.0398 | 0.0001 | 0.0002 | 0.0002 |
| Albany (WA) | -2441715.0069 | 4629128.6333 | -3633362.7930 | 0.0091 | 0.0125 | 0.0105 | -0.0479 | 0.0122 | 0.0478 | 0.0002 | 0.0002 | 0.0002 |
| Burnie (TAS) | -3989420.9187 | 2699532.9340 | -4166619.7796 | 0.0100 | 0.0083 | 0.0101 | -0.0397 | 0.0070 | 0.0426 | 0.0002 | 0.0002 | 0.0002 |
| Liawenee (TAS) | -3973071.4774 | 2612492.7923 | -4238233.8906 | 0.0099 | 0.0083 | 0.0103 | -0.0396 | 0.0076 | 0.0418 | 0.0002 | 0.0002 | 0.0002 |
| Burakin (WA) | -2511499.0840 | 4892172.2095 | -3220858.0287 | 0.0088 | 0.0124 | 0.0096 | -0.0471 | 0.0088 | 0.0501 | 0.0002 | 0.0001 | 0.0002 |
| Kellerberrin (WA) | -2527265.3639 | 4813192.3590 | -3324975.7001 | 0.0087 | 0.0124 | 0.0097 | -0.0472 | 0.0095 | 0.0496 | 0.0002 | 0.0001 | 0.0002 |
| Norseman (WA) | -2844072.6212 | 4589300.5857 | -3385094.4352 | 0.0091 | 0.0117 | 0.0097 | -0.0463 | 0.0080 | 0.0498 | 0.0002 | 0.0001 | 0.0002 |
| Hyden (WA) | -2603131.0876 | 4717143.4739 | -3402748.0718 | 0.0088 | 0.0122 | 0.0098 | -0.0471 | 0.0096 | 0.0493 | 0.0002 | 0.0001 | 0.0002 |
| Warakurna (WA) | -3583757.5864 | 4538446.7043 | -2683056.6943 | 0.0090 | 0.0101 | 0.0081 | -0.0420 | -0.0014 | 0.0537 | 0.0002 | 0.0001 | 0.0002 |
| Buckleboo (SA) | -3863896.2323 | 3723681.6406 | -3436456.0075 | 0.0105 | 0.0102 | 0.0097 | -0.0415 | 0.0024 | 0.0493 | 0.0002 | 0.0002 | 0.0002 |
| Beechworth (VIC) | -4297030.4444 | 2827160.2393 | -3759485.1907 | 0.0112 | 0.0091 | 0.0102 | -0.0381 | 0.0023 | 0.0453 | 0.0002 | 0.0002 | 0.0002 |
| Yeelana (SA) | -3787467.5311 | 3685160.4447 | -3559786.1635 | 0.0093 | 0.0091 | 0.0090 | -0.0420 | 0.0038 | 0.0486 | 0.0002 | 0.0002 | 0.0002 |
| Saltia (SA) | -3998750.5658 | 3608798.4710 | -3404651.9508 | 0.0098 | 0.0093 | 0.0090 | -0.0407 | 0.0014 | 0.0493 | 0.0002 | 0.0002 | 0.0002 |
| West Wylong (NSW) | -4471091.7769 | 2868001.2873 | -3519326.3705 | 0.0103 | 0.0083 | 0.0091 | -0.0370 | -0.0005 | 0.0466 | 0.0002 | 0.0002 | 0.0002 |
| Bairnsdale (VIC) | -4265638.5627 | 2701208.9154 | -3884372.5851 | 0.0118 | 0.0094 | 0.0109 | -0.0381 | 0.0034 | 0.0442 | 0.0002 | 0.0002 | 0.0002 |
| Port Kembla (NSW) | -4599806.4397 | 2558778.9950 | -3590075.1156 | 0.0116 | 0.0087 | 0.0100 | -0.0356 | -0.0007 | 0.0450 | 0.0002 | 0.0002 | 0.0002 |
| Douglas Daly (NT) | -4079102.7002 | 4661682.9452 | -1515238.0262 | 0.0113 | 0.0122 | 0.0079 | -0.0360 | -0.0128 | 0.0574 | 0.0002 | 0.0001 | 0.0002 |
| Toowoomba (QLD) | -4994482.4972 | 2663618.0089 | -2931171.1575 | 0.0121 | 0.0088 | 0.0091 | -0.0324 | -0.0079 | 0.0481 | 0.0002 | 0.0002 | 0.0002 |
| Andamooka (SA) | -4035145.8277 | 3741808.3918 | -3213842.4359 | 0.0098 | 0.0094 | 0.0088 | -0.0403 | -0.0002 | 0.0504 | 0.0002 | 0.0002 | 0.0002 |
| Gabo Island (VIC) | -4379911.9542 | 2537393.8597 | -3867574.2197 | 0.0112 | 0.0087 | 0.0103 | -0.0370 | 0.0026 | 0.0436 | 0.0002 | 0.0002 | 0.0002 |
| Coober Pedy (SA) | -3927330.9419 | 3965547.9511 | -3077376.8165 | 0.0093 | 0.0093 | 0.0083 | -0.0409 | -0.0005 | 0.0514 | 0.0002 | 0.0002 | 0.0002 |
| Katherine (NT) | -4147413.8177 | 4581462.5900 | -1573359.0837 | 0.0098 | 0.0103 | 0.0072 | -0.0358 | -0.0128 | 0.0572 | 0.0002 | 0.0001 | 0.0002 |
| Wagin (WA) | -2455774.3624 | 4735625.3849 | -3485038.1973 | 0.0083 | 0.0112 | 0.0094 | -0.0477 | 0.0110 | 0.0486 | 0.0002 | 0.0001 | 0.0002 |
| Ravensthorpe (WA) | -2664852.2528 | 4602498.8360 | -3509390.6909 | 0.0088 | 0.0116 | 0.0097 | -0.0471 | 0.0100 | 0.0488 | 0.0002 | 0.0001 | 0.0002 |
| Mt Cavanagh (NT) | -3929412.1216 | 4183417.4556 | -2773890.6215 | 0.0096 | 0.0099 | 0.0083 | -0.0404 | -0.0028 | 0.0530 | 0.0002 | 0.0002 | 0.0002 |
| Wiluna (WA) | -2871830.1215 | 4930661.0498 | -2841419.6642 | 0.0083 | 0.0109 | 0.0083 | -0.0452 | 0.0039 | 0.0524 | 0.0002 | 0.0001 | 0.0002 |
| Tibooburra (NSW) | -4383698.9008 | 3417850.9363 | -3117538.7823 | 0.0110 | 0.0096 | 0.0093 | -0.0379 | -0.0029 | 0.0501 | 0.0002 | 0.0002 | 0.0002 |
| Ivanhoe (NSW) | -4310476.3634 | 3190508.6627 | -3441393.5542 | 0.0098 | 0.0085 | 0.0088 | -0.0384 | -0.0001 | 0.0480 | 0.0002 | 0.0002 | 0.0002 |
| Broome (WA) | -3234208.1569 | 5134028.8375 | -1958815.1914 | 0.0088 | 0.0113 | 0.0075 | -0.0413 | -0.0046 | 0.0560 | 0.0002 | 0.0001 | 0.0002 |
| Nhill (VIC) | -4035390.1167 | 3193137.6972 | -3755906.1988 | 0.0100 | 0.0089 | 0.0095 | -0.0402 | 0.0038 | 0.0464 | 0.0002 | 0.0002 | 0.0002 |
| Warramunga (NT) | -4193700.6368 | 4289270.2773 | -2160904.9454 | 0.0100 | 0.0102 | 0.0077 | -0.0375 | -0.0088 | 0.0553 | 0.0002 | 0.0002 | 0.0002 |
| Mt Magnet (WA) | -2629526.8926 | 4978260.9506 | -2987965.8480 | 0.0082 | 0.0112 | 0.0086 | -0.0463 | 0.0064 | 0.0514 | 0.0002 | 0.0001 | 0.0002 |
| Larrimah (NT) | -4208011.6662 | 4479077.7734 | -1701337.7347 | 0.0111 | 0.0114 | 0.0078 | -0.0360 | -0.0122 | 0.0568 | 0.0002 | 0.0001 | 0.0002 |
| Leonora (WA) | -2905528.2178 | 4775175.2276 | -3062280.3715 | 0.0085 | 0.0109 | 0.0087 | -0.0455 | 0.0053 | 0.0515 | 0.0002 | 0.0001 | 0.0002 |
| Tuross Head (NSW) | -4477434.2788 | 2572331.0877 | -3731376.5980 | 0.0101 | 0.0079 | 0.0092 | -0.0365 | 0.0010 | 0.0444 | 0.0002 | 0.0002 | 0.0002 |
| Bald Rock (VIC) | -4188591.0788 | 3020461.0294 | -3731086.9242 | 0.0097 | 0.0083 | 0.0092 | -0.0391 | 0.0027 | 0.0461 | 0.0002 | 0.0002 | 0.0002 |
| Horn Island (QLD) | -4960946.6284 | 3834778.7885 | -1164513.3408 | 0.0110 | 0.0094 | 0.0069 | -0.0291 | -0.0205 | 0.0564 | 0.0002 | 0.0002 | 0.0002 |
| Mt Emu (VIC) | -4065544.7571 | 3013958.9753 | -3869590.3370 | 0.0106 | 0.0090 | 0.0101 | -0.0398 | 0.0044 | 0.0453 | 0.0002 | 0.0002 | 0.0002 |
| Stony Point (VIC) | -4111952.8138 | 2856387.6375 | -3938194.1385 | 0.0097 | 0.0082 | 0.0095 | -0.0393 | 0.0046 | 0.0444 | 0.0002 | 0.0002 | 0.0002 |
| Alice Springs (NT) | -4052052.7360 | 4212835.9841 | -2545104.5883 | 0.0095 | 0.0098 | 0.0079 | -0.0393 | -0.0052 | 0.0540 | 0.0002 | 0.0002 | 0.0002 |
| Roslyn Bay (QLD) | -5121089.4297 | 2863243.2415 | -2493143.3274 | 0.0164 | 0.0118 | 0.0100 | -0.0311 | -0.0118 | 0.0503 | 0.0002 | 0.0002 | 0.0002 |
| Larrakeyah (NT) | -4072230.1682 | 4713609.1735 | -1366659.3497 | 0.0113 | 0.0122 | 0.0077 | -0.0354 | -0.0139 | 0.0577 | 0.0002 | 0.0001 | 0.0002 |
| Broken Hill (NSW) | -4235701.4667 | 3372839.2104 | -3360245.2676 | 0.0104 | 0.0092 | 0.0092 | -0.0390 | -0.0003 | 0.0489 | 0.0002 | 0.0002 | 0.0002 |
| Cape Ferguson (QLD) | -5054583.3968 | 3275504.1131 | -2091538.4726 | 0.0108 | 0.0086 | 0.0075 | -0.0312 | -0.0143 | 0.0529 | 0.0002 | 0.0002 | 0.0002 |
| Wallal(WA) | -3060306.4338 | 5165740.4734 | -2144656.6187 | 0.0086 | 0.0113 | 0.0077 | -0.0425 | -0.0023 | 0.0552 | 0.0002 | 0.0001 | 0.0002 |
| Spring Bay (TAS) | -3988046.7045 | 2498705.5367 | -4290516.8742 | 0.0113 | 0.0090 | 0.0113 | -0.0392 | 0.0079 | 0.0411 | 0.0002 | 0.0002 | 0.0002 |
| Eucla (WA) | -3410392.1827 | 4229088.8868 | -3330284.3849 | 0.0093 | 0.0103 | 0.0091 | -0.0439 | 0.0043 | 0.0504 | 0.0002 | 0.0002 | 0.0002 |
| Coonabarabran (NSW) | -4687675.6162 | 2786705.8985 | -3297865.3737 | 0.0110 | 0.0085 | 0.0092 | -0.0352 | -0.0034 | 0.0472 | 0.0002 | 0.0002 | 0.0002 |
| Arubiddy (WA) | -3183133.6965 | 4393393.4410 | -3342516.9213 | 0.0086 | 0.0100 | 0.0088 | -0.0449 | 0.0057 | 0.0503 | 0.0002 | 0.0002 | 0.0002 |
| Baladonia (WA) | -3002034.1354 | 4472882.6994 | -3403723.4851 | 0.0087 | 0.0106 | 0.0091 | -0.0457 | 0.0072 | 0.0498 | 0.0002 | 0.0002 | 0.0002 |
| Mainoru (NT) | -4306320.1817 | 4444883.0498 | -1537980.0653 | 0.0115 | 0.0116 | 0.0078 | -0.0348 | -0.0140 | 0.0571 | 0.0002 | 0.0002 | 0.0002 |
| Bingleburra (NSW) | -4743762.8083 | 2559346.3040 | -3399327.9127 | 0.0115 | 0.0085 | 0.0096 | -0.0345 | -0.0030 | 0.0459 | 0.0002 | 0.0002 | 0.0002 |
| Portland (VIC) | -3926098.9113 | 3110284.5779 | -3935497.1170 | 0.0110 | 0.0096 | 0.0108 | -0.0408 | 0.0057 | 0.0452 | 0.0002 | 0.0002 | 0.0002 |
| Rocklands (NT) | -4445289.3356 | 4025824.8715 | -2164421.6420 | 0.0108 | 0.0103 | 0.0079 | -0.0360 | -0.0102 | 0.0549 | 0.0002 | 0.0002 | 0.0002 |
| Thevanard (SA) | -3735034.6262 | 3908923.6990 | -3372521.9630 | 0.0100 | 0.0102 | 0.0094 | -0.0422 | 0.0027 | 0.0499 | 0.0002 | 0.0002 | 0.0002 |
| Exmouth (WA) | -2417814.5397 | 5401707.5260 | -2370380.3097 | 0.0080 | 0.0117 | 0.0079 | -0.0452 | 0.0031 | 0.0533 | 0.0002 | 0.0001 | 0.0002 |
| Fitzroy Crossing (WA) | -3547066.8913 | 4918047.3803 | -1971686.4311 | 0.0095 | 0.0115 | 0.0077 | -0.0401 | -0.0064 | 0.0562 | 0.0002 | 0.0001 | 0.0002 |
| Gnangara (WA) | -2368688.0424 | 4881316.7075 | -3341794.9823 | 0.0081 | 0.0114 | 0.0092 | -0.0477 | 0.0105 | 0.0492 | 0.0002 | 0.0001 | 0.0002 |
| Flinders Island (TAS) | -4147112.4604 | 2567153.7563 | -4096196.5874 | 0.0109 | 0.0087 | 0.0106 | -0.0385 | 0.0056 | 0.0425 | 0.0002 | 0.0002 | 0.0002 |
| New Norcia (WA) | -2414152.3781 | 4907778.6372 | -3270644.2049 | 0.0088 | 0.0125 | 0.0096 | -0.0475 | 0.0097 | 0.0496 | 0.0002 | 0.0001 | 0.0002 |
| Tom Price (WA) | -2706524.4877 | 5221344.9511 | -2461226.3825 | 0.0087 | 0.0124 | 0.0084 | -0.0447 | 0.0021 | 0.0536 | 0.0002 | 0.0001 | 0.0002 |
| North Star (NSW) | -4854589.1186 | 2752849.4480 | -3078537.4439 | 0.0117 | 0.0088 | 0.0091 | -0.0338 | -0.0060 | 0.0479 | 0.0002 | 0.0002 | 0.0002 |
| Cooladdi (QLD) | -4707740.5468 | 3213770.3725 | -2852875.4128 | 0.0122 | 0.0098 | 0.0091 | -0.0352 | -0.0068 | 0.0504 | 0.0002 | 0.0002 | 0.0002 |
| Birdsville (QLD) | -4355739.6469 | 3740194.4994 | -2769171.5091 | 0.0113 | 0.0105 | 0.0090 | -0.0378 | -0.0053 | 0.0523 | 0.0002 | 0.0002 | 0.0002 |
| Boulia (QLD) | -4496431.9209 | 3785936.3941 | -2467980.3960 | 0.0111 | 0.0101 | 0.0083 | -0.0363 | -0.0083 | 0.0534 | 0.0002 | 0.0002 | 0.0002 |
| Hughenden (QLD) | -4833918.6817 | 3485758.7318 | -2266147.6174 | 0.0125 | 0.0101 | 0.0084 | -0.0334 | -0.0118 | 0.0531 | 0.0002 | 0.0002 | 0.0002 |
| Julia Creek (QLD) | -4687826.4385 | 3697044.2812 | -2237232.1656 | 0.0118 | 0.0103 | 0.0083 | -0.0345 | -0.0111 | 0.0539 | 0.0002 | 0.0002 | 0.0002 |
| Neutral Junction (NT) | -4123557.7648 | 4274539.2155 | -2318810.9705 | 0.0122 | 0.0124 | 0.0089 | -0.0383 | -0.0072 | 0.0548 | 0.0002 | 0.0002 | 0.0002 |
| Lambina (SA) | -3957272.6859 | 4088878.0706 | -2872293.9157 | 0.0097 | 0.0098 | 0.0084 | -0.0404 | -0.0022 | 0.0525 | 0.0002 | 0.0002 | 0.0002 |
| Mt Doreen (NT) | -3916571.9695 | 4428011.7783 | -2388294.0779 | 0.0119 | 0.0126 | 0.0089 | -0.0396 | -0.0055 | 0.0548 | 0.0002 | 0.0001 | 0.0002 |
| Jervois (NT) | -4237233.1317 | 4077484.9793 | -2462642.0014 | 0.0117 | 0.0116 | 0.0087 | -0.0380 | -0.0068 | 0.0540 | 0.0002 | 0.0002 | 0.0002 |
| Coen (QLD) | -4956013.1005 | 3710714.3539 | -1528615.7435 | 0.0150 | 0.0117 | 0.0081 | -0.0305 | -0.0179 | 0.0555 | 0.0002 | 0.0002 | 0.0002 |
| Laura (QLD) | -5000453.3825 | 3572456.4740 | -1701780.3240 | 0.0132 | 0.0107 | 0.0079 | -0.0307 | -0.0169 | 0.0547 | 0.0002 | 0.0002 | 0.0002 |
| Northcliffe (WA) | -2311144.1346 | 4712785.4091 | -3611358.5979 | 0.0084 | 0.0119 | 0.0100 | -0.0483 | 0.0128 | 0.0476 | 0.0002 | 0.0001 | 0.0002 |
| Kilkivan (QLD) | -5073245.0941 | 2668929.5700 | -2787555.0317 | 0.0127 | 0.0091 | 0.0090 | -0.0316 | -0.0094 | 0.0486 | 0.0002 | 0.0002 | 0.0002 |
| Meadow (WA) | -2373305.7835 | 5181466.1948 | -2854287.0682 | 0.0084 | 0.0126 | 0.0089 | -0.0467 | 0.0069 | 0.0514 | 0.0002 | 0.0001 | 0.0002 |
| Yarragadee (WA) | -2389026.6159 | 5043317.0600 | -3078529.5586 | 0.0080 | 0.0114 | 0.0087 | -0.0472 | 0.0085 | 0.0505 | 0.0002 | 0.0001 | 0.0002 |
| North Bourke (NSW) | -4587935.3985 | 3116314.3026 | -3139419.8358 | 0.0113 | 0.0092 | 0.0093 | -0.0363 | -0.0040 | 0.0490 | 0.0002 | 0.0002 | 0.0002 |
| Harding River Dam (WA) | -2713833.2684 | 5303935.1133 | -2269513.7542 | 0.0081 | 0.0113 | 0.0077 | -0.0441 | 0.0007 | 0.0542 | 0.0002 | 0.0001 | 0.0002 |
| Port Headland (WA) | -2867484.8313 | 5242158.9057 | -2223764.3419 | 0.0085 | 0.0118 | 0.0079 | -0.0434 | -0.0006 | 0.0547 | 0.0002 | 0.0001 | 0.0002 |
| Murchison (WA) | -2556630.0412 | 5097138.2863 | -2848384.7843 | 0.0083 | 0.0117 | 0.0085 | -0.0462 | 0.0058 | 0.0518 | 0.0002 | 0.0001 | 0.0002 |
| Gascoyne (WA) | -2482748.2739 | 5243145.5489 | -2642213.9892 | 0.0093 | 0.0143 | 0.0094 | -0.0458 | 0.0047 | 0.0525 | 0.0002 | 0.0001 | 0.0002 |
| Normanton (QLD) | -4728960.2818 | 3819993.0037 | -1923811.0896 | 0.0140 | 0.0122 | 0.0085 | -0.0334 | -0.0137 | 0.0550 | 0.0002 | 0.0002 | 0.0002 |
| King Island (TAS) | -3953946.8747 | 2888865.8595 | -4073040.9386 | 0.0096 | 0.0083 | 0.0097 | -0.0403 | 0.0066 | 0.0437 | 0.0002 | 0.0002 | 0.0002 |
| Hernani (NSW) | -4887853.3609 | 2545879.9420 | -3202305.1047 | 0.0124 | 0.0088 | 0.0097 | -0.0333 | -0.0053 | 0.0466 | 0.0002 | 0.0002 | 0.0002 |
| Christmas Island (WA) | -1696344.7537 | 6039590.0096 | -1149275.0866 | 0.0075 | 0.0132 | 0.0072 | -0.0419 | -0.0015 | 0.0538 | 0.0002 | 0.0001 | 0.0002 |
| Lord Howe Island (NSW) | -5082756.5673 | 1944860.6793 | -3315203.5926 | 0.0116 | 0.0076 | 0.0092 | -0.0304 | -0.0056 | 0.0433 | 0.0002 | 0.0002 | 0.0002 |
| Eidsvold (QLD) | -5049378.8605 | 2785132.1517 | -2716869.1227 | 0.0147 | 0.0102 | 0.0100 | -0.0319 | -0.0097 | 0.0493 | 0.0002 | 0.0002 | 0.0002 |
| Nebo (QLD) | -5068236.7291 | 3081711.6353 | -2337561.3869 | 0.0163 | 0.0122 | 0.0101 | -0.0314 | -0.0126 | 0.0515 | 0.0002 | 0.0002 | 0.0002 |
| Aramac (QLD) | -4827919.3114 | 3349814.0161 | -2472422.8950 | 0.0114 | 0.0093 | 0.0082 | -0.0338 | -0.0102 | 0.0521 | 0.0002 | 0.0002 | 0.0002 |
| Tambo (QLD) | -4820440.5593 | 3216767.7633 | -2656380.4455 | 0.0154 | 0.0116 | 0.0104 | -0.0341 | -0.0088 | 0.0511 | 0.0002 | 0.0002 | 0.0002 |
| Mulgathing (SA) | -3833528.0707 | 3961621.4057 | -3197513.8708 | 0.0102 | 0.0103 | 0.0092 | -0.0415 | 0.0009 | 0.0509 | 0.0002 | 0.0002 | 0.0002 |
| Kidman Springs (NT) | -4017486.2068 | 4628837.9322 | -1759281.7840 | 0.0171 | 0.0183 | 0.0106 | -0.0372 | -0.0107 | 0.0568 | 0.0002 | 0.0001 | 0.0002 |
| Renner Springs (NT) | -4192073.9978 | 4368928.5517 | -1999279.4623 | 0.0109 | 0.0112 | 0.0080 | -0.0370 | -0.0100 | 0.0559 | 0.0002 | 0.0002 | 0.0002 |
| Esperance (WA) | -2800842.3479 | 4500734.2962 | -3534898.1927 | 0.0171 | 0.0260 | 0.0185 | -0.0466 | 0.0094 | 0.0489 | 0.0002 | 0.0002 | 0.0002 |
| Jabiru (NT) | -4236472.9665 | 4559859.3702 | -1388764.0422 | 0.0170 | 0.0175 | 0.0095 | -0.0347 | -0.0147 | 0.0576 | 0.0002 | 0.0001 | 0.0002 |
| Yellowdine (WA) | -2698549.7646 | 4741476.9407 | -3293657.2537 | 0.0147 | 0.0232 | 0.0163 | -0.0466 | 0.0082 | 0.0501 | 0.0002 | 0.0001 | 0.0002 |
| Walhallow (NT) | -4344184.0427 | 4247715.9745 | -1934909.3899 | 0.0182 | 0.0186 | 0.0110 | -0.0360 | -0.0113 | 0.0559 | 0.0002 | 0.0002 | 0.0002 |

Schedule 2—Repeals

Recognized-value standard of measurement of position 2012 (No. 1)

1 The whole of the determination

Repeal the determination.