



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

R. BRUCE WARRINGTON

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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.....	2
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	12
<i>Recognized-value standard of measurement of position 2012 (No. 1)</i>	<i>12</i>

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>).

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>).

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>).

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Each instrument that is specified in a Schedule to this instrument is amended or repealed as set out in the applicable items in the Schedule concerned, and any other item in a Schedule to this instrument has effect according to its terms.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 $X \pm u(X)$ 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 (V_X, V_Y, V_Z) listed in Schedule 1:

$$\begin{bmatrix} X \\ Y \\ Z \end{bmatrix}_t = \begin{bmatrix} X \\ Y \\ Z \end{bmatrix}_{2020} + (t - 2020) \begin{bmatrix} V_X \\ V_Y \\ V_Z \end{bmatrix}$$

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

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

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

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

Note: See sections 6 and 7.

Site	Coordinates (m) at 2020.0			Coordinate Uncertainty (m)			Velocity (m / year)			Velocity Uncertainty (m / year)		
	X	Y	Z	$u(X)$	$u(Y)$	$u(Z)$	V_X	V_Y	V_Z	$u(V_X)$	$u(V_Y)$	$u(V_Z)$
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

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

Site	Coordinates (m) at 2020.0			Coordinate Uncertainty (m)			Velocity (m / year)			Velocity Uncertainty (m / year)		
	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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

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	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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

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	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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

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

Site	Coordinates (m) at 2020.0			Coordinate Uncertainty (m)			Velocity (m / year)			Velocity Uncertainty (m / year)		
	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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

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Site	Coordinates (m) at 2020.0			Coordinate Uncertainty (m)			Velocity (m / year)			Velocity Uncertainty (m / year)		
	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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

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Site	Coordinates (m) at 2020.0			Coordinate Uncertainty (m)			Velocity (m / year)			Velocity Uncertainty (m / year)		
	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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

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

Site	Coordinates (m) at 2020.0			Coordinate Uncertainty (m)			Velocity (m / year)			Velocity Uncertainty (m / year)		
	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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

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

	Coordinates (m) at 2020.0			Coordinate Uncertainty (m)			Velocity (m / year)			Velocity Uncertainty (m / year)		
Site	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>u(X)</i>	<i>u(Y)</i>	<i>u(Z)</i>	<i>V_X</i>	<i>V_Y</i>	<i>V_Z</i>	<i>u(V_X)</i>	<i>u(V_Y)</i>	<i>u(V_Z)</i>
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.