Supplementary Data Table 1. Quality-filtered paleomagnetic poles from cratons constrained by apparent polar wander path (APW) continuity and tectonic reconstruction in the Nuna supercontinent, with extension to Rodinia for Laurentia and Baltica. Data were selected according to: (a) modified Van der Voo (1990) quality factor (Q_6; Veikkolainen et al., 2014) three or higher, (b) age uncertainty ±20 Myr or less, directly on the paleomagnetically sampled formation with minimal correlation, (c) number of samples greater than 15, (d) minimum of four sites if from quickly-cooled igneous rocks.

	Craton/rock unit	GPMD	Age (Ma)	Domin. Dir.	N.Pole(°N,°E)	#	A_{95}(°)	123456	(Q_6)	%Nor	Method	References
	Superior (2220–1830 Ma)†											
1	Nipissing sills combined	new	2219±4	N, up	–19, 272	61	11	111111	6	30	i	this study ††
2	Senneterre dykes comb.	new	2216+8/-4	N, up	–15, 282	8	6	111111	6	12	i	Buchan et al., 1993, 2007
3	Biscotasing dykes	new	ca. 2170	W, down	23, 228	13	7	111111	6	92	i	see Evans and Halls, 2010 (EH10)
4	Marathon N dykes	new	ca. 2125	NW, down	54, 189	16	8	111010	4	100	b	Buchan et al., 1996; Halls et al., 2008
5	Marathon R dykes	new	ca. 2105	SE, up	64, 169	13	8	111110	5	0	b	Buchan et al., 1996; Halls et al., 2008
6	Cauchon Lake dykes	8548	2091±2	SE, up	62, 167	6	8	111110	5	0	i	Halls and Heaman, 2000; EH10
7	Fort Frances dykes	1739	ca. 2075	SE, up	52, 173	12	6	111010	4	0	i	Halls, 1986; EH10
8	Lac Esprit dykes	new	2069±1	SE, up	62, 171	8	6	111010	4	0	i	Buchan et al., 2007; EH10
9	Minto dykes	8310	1998±2	SE, up	38, 174	6	10	111011	5	17	i	Buchan et al., 1998; EH10
10	Molson dykes B,C2 comb.	new	ca. 1880	SW, down	29, 218	34	4	111111	6	73	i	see Evans and Halls, 2010
11	Flaherty Volcanics	1629	ca. 1870	NE, up	00, 244	35	7	111111	6	18	b	Schmidt, 1980; Hamilton et al., 2009
12	Haig sills	1630	1870±1	NE, up	01, 247	41	6	111111	6	40	b	Schmidt, 1980; Hamilton et al., 2009
13	Sudbury impact B	new	1850±1	Steep down	43, 282	9	20	111110	5	100	b	Halls, 2009
	Slave (1900–1830 Ma)											
14	Akaitcho River Fm	1633	ca. 1885	NW, up	–04, 268	35	7	111111	6	26	b	Evans et al., 1980
15	Mara Fm	5914	ca. 1885	S, down	–07, 253	28	7	111011	4	68	b	Evans and Hoye, 1981
16	Seton Fm, C component	14	ca. 1885	SE, down	02, 267	19	6	111010	4	100	b	Irving and McGlynn, 1979
17	Kahochella Gp 2	1637	ca. 1882	NW,u / SE,d	–07, 298	18	8	111011	5	50	b	Reid et al., 1981
18	Peacock Hills Fm	5913	ca. 1882	NW, shallow	–15, 270	15	9	101011	4	27	b	Evans and Hoye, 1981
19	Takiyuak Fm	18	ca. 1876	S, down	–13, 249	17	8	111011	5	82	b	Irving and McGlynn, 1979
20	Douglas Peninsula Fm	16	ca. 1876	S, down	–18, 258	6	14	101011	4	67	b	Irving and McGlynn, 1979
21	Stark Fm	2272	ca. 1876	NE, shallow	–15, 215	39	5	111011	5	48	b	Bingham and Evans, 1980
22	Tochatwi Fm	2270	ca. 1876	NE, shallow	–18, 216	8	11	111111	5	25	b	Evans and Bingham, 1980
23	Pearson Fm, A comp.	2082	ca. 1870	NW, shallow	–19, 283	12	7	111010	4	0	b	McGlynn and Irving, 1978
24	Peninsular Sill	19	1870±4	NW, shallow	–22, 263	7	7	111011	5	6	b	Irving and McGlynn, 1979
	Laurentia (1830–900 Ma)											
25	Martin Fm	2659	1818±4	NW, up	–09, 288	15	9	110111	6	33	b	Evans and Bingham, 1973; Morelli et al., 2010
26	Cleaver dykes	9139	1740+5/-4	SE, down	19, 277	17	6	111110	5	100	b	Irving et al., 2004
27	Melville Bugt dykes	new	1638-1619	NE, up	03, 261 †	9	9	111011	5	44	b	Halls et al., 2011
28	Western Channel diabase	2669	ca. 1592	N, up	09, 245	35	7	110110	4	0	b	Irving et al., 1972; Hamilton & Buchan, 2010
29	St Francois Mtns	8932	1476±16	SW, down	–13, 219	18	6	111110	5	100	b	Meert and Stuckey, 2002

30	Michikamau intr. comb.	2274	1460±5	W, shallow	–02, 218	12	5	111101	5	92	b	Emslie et al., 1976
31	Spokane Fm	9039	1470-1445	SW, down	–25, 216	(231)	5	111110	5	100	b	Elston et al., 2002
32	Empire Fm	178	1470-1458	SW, down	–19, 206	(30)	5	111010	4	100	b	Elston and Bressler, 1980
33	Harp Lake complex	2055	1450±5	E, shallow	02, 206	24	4	111001	4	42	b	Irving et al., 1977
34	Snowslip Fm	9038	1463-1436	NE, up	–25, 210	9	4	111111	6	11	b	Elston et al., 2002
35	Purcell lava	9037	1443±7	NE, up	–24, 216	10	5	111110	5	0	b	Elston et al., 2002
36	Shepard Fm	9036	ca. 1435?	NE, up	–23, 213	(118)	6	111110	5	0	b	Elston et al., 2002
37	Electra Lake Gabbro	8342	1435±2	NE, up	–21, 221	21	3	111000	3	0	b	Harlan and Geissman, 1998
38	Mt Shields, Lower Mb †††	9035	ca. 1430?	NE, up	–26, 215	(141)	7	111110	5	0	b	Elston et al., 2002
39	Mt Shields, Middle Mb †††	9034	ca. 1425?	NE, up	–18, 204	(88)	6	111110	5	0	b	Elston et al., 2002
40	Mt Shields, Upper Mb †††	9033	ca. 1420?	NE, up	–16, 202	11	4	111111	6	36	b	Elston et al., 2002
41	Laramie Anorthosite	7493	ca. 1415	NE, up	–07, 217	29	4	111001	4	5	n,e	Harlan et al., 1994
42	Sherman Granite	7494	ca. 1415	NE, up	–04, 211	8	9	111001	4	25	b	Harlan et al., 1994
43	Bonner Quartzite †††	9032	ca. 1410?	SW, down	–11, 207	12	4	111110	5	100	b	Elston et al., 2002
44	McNamara Fm	9031	1401±6	NE, up	–14, 208	10	7	111111	6	30	b	Elston et al., 2002
45	Zig-Zag Dal and intrusions	new	1382±2	E, up	11, 229 †	41	3	111111	6	29	b	Abrahamsen & Van derVoo'87;Upton et al.'05
46	Nain anorthosite	2180	1305±15	W, down	12, 207	21	2	111001	4	76	b	Murthy, 1978
47	Grønnedal-Íka complex	7529	1299±17	W, down	12, 215 †	10	7	111000	3	85	n	Piper, 1994
48	Eriksfjord basal lavas	6604	1307-1275	NW, shallow	13, 195 †	5	10	111110	5	100	b	Piper, 1992a; Andersen, 2013
49	Upper Eriksfjord lavas	6512/3	1307-1275	NW,down	31, 206 †	27	7	111111	6	74	b	Thomas and Piper,1992; Andersen, 2013
50	North Qoroq intrusion	6607	ca. 1275	NW, shallow	17, 191 †	12	8	111001	4	92	b	Piper, 1992a
51	Mackenzie LIP mean	new	1267±2	SW, down	04, 190	14	5	111110	5	100	b,i	Buchan et al., 2000
52	Seal Lake Gp igneous	1604	1274-1243	W, shallow	17, 195	11	5	111011	5	58	n	Park and Roy, 1979; Davidson, 1998
53	West Gardar dolerite dykes	2106	1251-1236	NW, shallow	12, 190 †	24	7	111010	4	100	b	Piper and Stearn, 1977
54	West Gardar lamprophyres	2108	1249-1227	W, shallow	07, 194 †	12	7	111010	4	100	b	Piper and Stearn, 1977
55	Sudbury dikes combined	2175	1235+7/-3	W, shallow	–03, 193	52	3	111110	5	100	b	Palmer et al., 1977; Dudas et al., 1994
56	Strathcona Sound Fm †††	new	ca. 1200?	SW, down	08, 204	22	3	010011	3	77	b	Fahrig et al., 1981
57	Hviddal Giant Dyke	2132	1184±5	NW, down	36, 206 †	7	10	111010	4	100	b	Piper, 1977; Upton et al., 2003
58	Stoer Group	new	1177±5	NW, down	52, 179 †	(49)	7	111011	5	98	n	Borradaile & Geneviciene'08; Parnell et al. '11
59	NE-SW Trending Dykes	6609	1168-1155	W, down	35, 231 †	18	6	111010	4	100	b	Piper, 1992a; Upton et al., 2003
60	Giant Gabbro Dykes	2131	ca. 1164	NW, down	44, 218 †	13	9	111010	4	100	b	Piper, 1977; Buchan et al., 2001
61	South Qoroq intrusion	6610	1160±8	NW, down	44, 207 †	9	13	111100	4	100	b	Piper, 1992a; Upton et al., 2003
62	Ilimaussaq complex	8454	1160±5	NW, down	69, 281 †	10	12	111111	6	91	n	Piper et al., 1999; Upton et al., 2003
63	Abitibi dikes	7193	1141±2	NW, down	49, 216	(7)	14	111111	6	71	i	Ernst & Buchan '93; excl. A1 (Halls et al. '08)
64	Pillar Lake Lava	new	1134-1103	SE, up	48, 215	6	18	101010	3	0	b	Borradaile & Middleton '06; Heaman et al. '07
65	Central AZ diabases – R	new	1129-1103	Steep up	46, 256	5	12	111110	5	0	b	Donadini et al., 2011, 2012
66	Seagull intrusion	new	1113±1	E, up	42, 233	10	7	111010	4	0	n	Borradaile & Middleton '06; Heaman et al. '07
67	Nipigon sills	new	1109+4/-2	SE, up	49, 207	15	15	111010	4	0	b	Middleton et al., 2004
68	Coldwell Complex I	6493	1108±1	SE, up	54, 217	19	5	111000	3	0	b	Lewchuk &Symons'90;Heaman &Machado'92
69	Osler R – lower 3rd	new	1111-1108	SE, up	41, 219	30	5	111011	5	0	b	Swanson-Hysell et al., 2014a
70	Mamainse Point R1a	new	1111-1105	SE, up	50, 227	24	5	111111	6	0	b	Swanson-Hysell et al., 2014b
71	North Shore Volcanics R	3092	1108±2	SE, up	45, 197	11	5	110011	4	0	b	Books, 1968; Davis and Green, 1997
72	Osler R – middle 3rd	new	1110-1103	SE, up	43, 211	20	8	111111	6	0	b	Swanson-Hysell et al., 2014a

73	Powder Mill Volcanics	349	1107±2	E, up	39, 218	33	6	111010	4	0	b	Palmer & Halls, 1986; Davis and Green, 1997
74	Osler R – upper 3rd	new	1105±2	SE, up	43, 202	59	4	111111	6	0	b	Swanson-Hysell et al., 2014a
75	Mamainse Point R1b	new	1110-1100	SE, up	38, 205	14	4	111111	6	0	b	Swanson-Hysell et al., 2014b
76	Coldwell Complex II	6494	1107+9/-5	NW, down	49, 195	11	9	111000	3	100	b	Lewchuk &Symons'90;Heaman &Machado'92
77	Nemegosenda complex	7303	1105±3	NW, down	51, 188	11	14	101001	3	64	b	Costanzo-Alvarez et al. '93; Heaman et al., '07
78	Lackner Lake Complex	8381	1101±2	NW, down	54, 204	16	7	111000	3	100	b	Symons, 1989; Heaman et al., 2007
79	Mamainse Point N1+R2	new	1100.4±0.3	NW, down	36, 190	24	5	111111	6	58	b	Swanson-Hysell et al., 2014b
80	North Shore Volc N comb.	new	1102-1095	NW, down	35, 181	61	3	111011	5	100	b	Tauxe and Kodama, 2009
81	Beaver Bay Complex	3153	1096±1	NW, down	28, 190	29	4	110010	3	100	b	Beck & Lindsley, 1969; Paces & Miller, 1993
82	Chengwatana Volcanics	8163	1095±2	NW, down	31, 186	8	8	111011	5	75	b	Kean et al., 1997; Zartman et al., 1997
83	Portage Lake Volcanics	new	1095±3	NW, down	27, 178	28	5	111110	5	100	b	Hnat et al., 2006
84	Mamainse Point N2	new	1100-1094	NW, down	31, 183	34	3	111111	6	100	b	Swanson-Hysell et al., 2014b
85	Cardenas basalts+intrus.	9073	1091±5	NW, down	32, 185	16	8	111010	4	100	b	Weil et al., 2003
86	Lake Shore Traps	7198	1087±2	NW, down	22, 181	31	5	111110	5	100	b	Diehl and Haig, 1994
87	Central AZ diabase – N	new	1088±11	W, down	23, 178	4	8	111010	4	100	b	Donadini et al., 2011, 2012
88	Nonesuch Fm †††	new	ca. 1065?	W, shallow	07, 175	29	3	111010	4	100	b	Symons et al., 2013; age interpol. from APWP
89	Freda Fm †††	2051	ca. 1055?	W, shallow	02, 179	20	4	111010	4	100	b	Henry et al., 1977; age interpol'd from APWP
90	Jacobsville Fm (A+B) †††	new	ca. 1040?	W, shallow	–09, 183	24	4	111011	5	67	b	Roy and Robertson, 1978; age interpolated
91	Chequamegon Fm †††	1679	ca. 1035?	E, shallow	–12, 178	10	5	111010	4	0	b	McCabe and Van der Voo, 1983; age interpol.
92	Haliburton A	9165	1015±15	W, up	–33, 142	17	6	111000	3	100	b	Warnock et al., 2000
93	Adirondack fayalite granite	new	ca. 990	NW, up	–28, 133	8	7	111001	4	88	b	Brown and McEnroe, 2012
94	Adirondack metam. anorth.	new	ca. 970	NW, up	–25, 149	14	12	111001	4	64	b	Brown and McEnroe, 2012
95	Adirondack microcl. gneiss	new	ca. 960	NW, up	–18, 151	14	10	111001	4	71	b	Brown and McEnroe, 2012

Fennoscandia (1900–1700 Ma)

96	Svecofennian igneous	7531	ca. 1880	N, down	46, 227	12	4	111010	4	100	b	Elming, 1994
97	Haukivesi lamprophyres	1312	ca. 1838	N, down	49, 225	15	3	111010	4	100	b	Neuvonen et al., 1981
98	Ladoga shosh. & lampr. A	new	1802±17	N, down	52, 230	6	5	111011	5	83	b	Mertanen et al., 2006
99	Hoting gabbro	new	1786±10	NW, down	43, 233	6	11	111101	5	83	b	Elming et al., 2009
100	Småland intrusions	new	1780±3	N, down	46, 183	11	8	111111	6	91	b	Pisarevsky and Bylund, 2010
101	Ropruchey sill	new	1751±3	N, down	39, 217	4	9	111010	4	100	b	Pisarevsky et al., 2014a

Sarmatia (1800–1700 Ma)

102	Volhyn-Dniester-Bug C+D	new	1770-1740	NE, shallow	27, 169	11	4	111111	6	55	b	Elming et al., 2010
103	Volhyn-Dniestr-Bug E	new	1722±12	SW, down	11, 163	5	10	111010	4	0	b	Elming et al., 2010

Baltica (1700–900 Ma)

104	Satakunta E dykes (SK2)	new	1670-1640	N, shallow	33, 206	5	14	111011	5	80	b	Salminen et al., 2013
105	Sipoo diabase dykes	7766	1633±10	S, shallow	32, 184	4	29	101010	3	0	b	Mertanen and Pesonen, 1995
106	Subjotnian qtz. porphyry	new	ca. 1630	N, shallow	29, 177	14	6	111010	4	100	b	Buchan et al., 2000
107	Satakunta N,NE dykes	new	1590-1565	N, shallow	29, 188	20	7	111111	6	64	i	Salminen et al., 2013
108	Ragunda granite	1320	1514±5	N, down	52, 167	15	7	111001	4	73	b	Piper, 1979, Persson, 1999
109	Ragunda dykes	5789	1519-1493	N, down	64, 155	4	25	101011	4	75	b	Piper, 1979, Persson, 1999

110	Rødø basic dykes	new	1505±8	S, up	42, 202	6	10	111110	5	0	b	Moakhar and Elming, 2000
111	Tuna dykes	new	1474±4	NE, up	21, 171	6	10	111010	4	100	b	Piper, 1992b; Lundstrom et al., 2002
112	Lake Ladoga mafic rocks	new	1452±12	NE, shallow	15, 177	13	6	111111	6	85	b	Lubnina et al., 2010
113	Bornholm Keldsea dyke	7638	1326±10	NE, down	53, 149	(31)	7	111111	6	90	n,e	Abrahamsen&Lewandowski'95;Holm et al.'05
114	Post-Jotnian intr. mean	new	1270-1246	NE, up	–02, 159	53	3	111110	5	100	b	Pisarevsky et al., 2014
115	Salla Dyke	new	1122±7	NE, down	71, 113	15	9	111110	5	100	b	Salminen et al., 2009
116	Blekinge-Dalarna dolerites	6528	971-945	NW, up	10, 241	7	9	111011	5	71	b	Bylund, 1992; Söderlund et al., 2005
117	Central+So. Swedish dykes	new	946-935	SE, down	–01, 241	10	7	111111	5	30	i	Elming et al., 2014
118	Brattön + Älgön igneous	909	916±11	NW, up	05, 249	11	4	111000	3	100	b	Stearn and Piper, 1984; Scherstén et al., 2000
119	Egersund-Ogna anorth.	9072	ca. 900	NW, up	–42, 200	13	9	111000	3	100	b	Brown and McEnroe, 2004
	Siberia (1900–900 Ma)											
120	Lower Akitkan, Malaya K.	new	1878±4	S, shallow	–31, 099	7	4	111110	5	100	b	Didenko et al., 2009
121	Upper Akitkan, Chaya R.	new	1863±9	S, shallow	–22, 098	10	8	111110	5	100	b	Didenko et al., 2009
122	Kuonamka dykes	8554	1503±5	NE, shallow	–06, 054	5	14	101011	4	20	b	Ernst et al., 2000
123	Malgina Fm (lower) †††	8571	ca. 1040?	W, down	15, 070 †	(89)	3	011111	5	61	d	Gallet et al., 2000
124	Linok Fm †††	8572	ca. 1040?	SSW, down	15, 076	(139)	8	011111	5	59	d	Gallet et al., 2000
125	Kartochka Fm †††	new	ca. 1030?	W, down	19, 036	(215)	12	011110	4	100	n	Gallet et al., 2012
126	Mil'kon Fm †††	8847	ca. 1020?	W, shallow	–06, 039 †	(33)	3	011110	4	100	n	Pavlov et al., 2000; Pavlov and Gallet, 2010
127	Kandyk Fm	8935	ca. 990	SE, down	–09, 019 †	(116)	4	111110	5	0	n	Pavlov et al., 2002
	Australia (1800–900 Ma)											
128	Hart dolerite	1940	1790±4	SE, shallow	–29, 226	12	24	100011	3	83	b	McElhinny and Evans, 1976
129	Peters Creek volcanics	8725	1727±2	SE, down	–26, 221	(69)	5	111111	6	55	n,e	Idnurm, 2000
130	Fiery Creek volcanics	8734	1709±3	SE, down	–24, 212	5	10	111010	4	100	n	Idnurm, 2000
131	West Branch volcanics	8719	1712-1705	E, down	–16, 201	(105)	11	111110	5	98	n	Idnurm, 2000
132	Gunpowder Creek Fm	8737	1694-1660	W, shallow	–12, 233	(19)	4	101010	3	0	n	Idnurm, 2000
133	Mallapunyah Fm	7612	1665-1645	SE, down	–35, 214	(124)	3	111111	6	70	n,e	Idnurm et al., 1995
134	Amelia Fm	7614	1660-1645	NW, up	–47, 189	(50)	6	111011	5	2	n,e	Idnurm et al., 1995
135	Tatoola Fm	7617	1648±3	NW, up	–53, 182	(35)	11	101010	3	0	n	Idnurm et al., 1995
136	Tooganinie Fm	7618	1648±3	NW, up	–61, 187	(72)	6	111111	6	25	n,e	Idnurm et al., 1995
137	Myrtle Fm	7621	1651-1635	N, up	–76, 197	(26)	8	111010	4	0	n	Idnurm et al., 1995
138	Emmerugga Fm	7619	1651-1635	N, up	–79, 203	(47)	6	111110	5	0	n	Idnurm et al., 1995
139	Lynott Fm	8721	1636±4	N, up	–75, 163	(21)	6	101011	4	10	n	Idnurm, 2000
140	Amos Fm	8722	1614±4	N, up	–67, 178	(39)	5	111010	4	0	n	Idnurm, 2000
141	Balbirini Fm lower	8723	1617-1606	NW, up	–66, 178	(46)	6	111011	5	13	n	Idnurm et al., 1995; Idnurm, 2000
142	Balbirini Fm upper	8724	1589±3	NW, up	–52, 176	(44)	8	111011	5	9	n	Idnurm et al., 1995; Idnurm, 2000
143	Gnowangerup-Fraser	new	ca. 1210	Steep down	–40, 171 †	14	6	111111	6	93	b	Pisarevsky et al., 2014b
144	Mt Barren metasedim.	8981	1215-1195	SE, down	–23, 175 †	(30)	13	111001	4	60	n	Pisarevsky et al., 2003
145	Lakeview Dolerite (IAR)	7549	1140±1	Steep down	–10, 131	9	17	101010	3	100	b	Tanaka and Idnurm, 1994
146	Alcurra dykes+sills	new	1089-1064	NW, down	03, 080	9	9	111100	4	100	b	Schmidt et al., 2006
147	Bangemall sills+dyke	8781	1070±6	N, down	04, 072 †	11	8	111111	6	100	b	Wingate et al., 2002

North China (1800–1300 Ma)												
148	Central Zone dykes A2	new	ca. 1785	N, shallow	51, 281	24	5	111011	5	92	b	Piper et al., 2011
149	Xiong'er Gp	new	1778±8	N, shallow	50, 263	14	5	111011	5	86	b	S. Zhang et al., 2012
150	Central Zone dykes A1	new	1769±3	NE, shallow	39, 245	33	2	111111	6	94	b	Piper et al., 2011
151	Yanliao mafic sills	new	1330-1316	NW, up	–06, 180	18	4	111110	5	0	b	Chen et al., 2013; S.-H. Zhang et al., 2012
India (1800–1300 Ma)												
152	Lakhna dykes	new	1466±3	NE, down	37, 133	8	14	111011	5	88*	b	Pisarevsky et al., 2013
153	Harohalli alkaline dykes	new	1192±10	Steep down	25, 078	10	16	111011	5	80*	b	Pradhan et al., 2008
Amazonia (1800–900 Ma)												
154	Colider volcanics	new	1789±7	S, down	63, 119	10	10	111011	5	30*	b	Bispo-Santos et al., 2008
155	Avanavero suite	new	1789±3	SE, shallow	48, 208	13	9	111110	5	0*	b	Bispo-Santos et al., 2014
156	Nova Guarita dykes	new	1419±4	SW, down	48, 066	19	7	111111	6	11*	b	Bispo-Santos et al., 2012
157	Indiavaí gabbro	new	1416±7	SW, down	57, 070	16	9	111000	3	0*	b	D'Agrella-Filho et al., 2012
158	Nova Floresta Fm	8827	1200±7	NW, up	25, 165	16	6	111010	4	100*	b	Tohver et al., 2002
159	Fortuna Fm	new	1150±7	NNW,up	60, 156	18	9	111010	4	100*	b	D'Agrella-Filho et al., 2008

GPMD = "Result number" in the global paleomagnetic database (Pisarevsky, 2005). Dom. Dir. = dominant remanence direction in local coordinates. N.Pole = coordinates of the North Pole, according to the tectonic model. # = number of sites (or samples, if in parentheses). A_{95} = Fisher's (1953) standard circular error. Q6 = first six quality criteria of Van der Voo (1990); criterion #6 is considered satisfied if an entry consists of a single-polarity subset from a dual-polarity stratigraphic section. %Nor = percentage of data interpreted as normal polarity according to the tectonic model. Methods: i = polarity ratio calculated on the number of distinct intrusions; b = calculated on site means; n = calculated on sample directions; e = estimate based on stereoplot figures; d = database entry, inverted if necessary to match the tectonic model.

† Superior poles prior to 1900 Ma are given in the eastern reference frame (Evans and Halls, 2010); Laurentia poles from Scotland are rotated to North America according to Bullard et al. (1965), and those from Greenland are rotated according to Roest and Srivastava (1989); Siberia poles from the Aldan Shield are rotated to Anabar according to Evans (2009); Western Australian poles are rotated to North Australia according to Li and Evans (2011).

†† Nipissing sill mean of 10 distinct intrusions, combining results of Symons (1967, 1970, 1971), Patel and Palmer (1974), Symons and Londry (1975), Roy and Lapointe (1976), Morris (1981), Stupavsky and Symons (1982), Buchan et al. (1989), and Buchan (1991).

††† Given the excellent magnetostratigraphic records of these sedimentary rocks, they are included here despite relatively poor constraints on their ages.

* These results would change to the complementary polarity ratio, in the alternative paleogeographic model by Pisarevsky et al. (2014a) with its most likely evolution into the Li et al. (2008) Rodinia configuration.

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