

**Table 1.** Astrometric and rotational parameters of all pulsars analysed in this work, including the sky-locations in equatorial coordinates, spin frequencies, spin-down and second spin-frequency derivative. The period, position and DM epoch is MJD 57600 for all pulsars. Errors for RAJ and DEC represent the one-sigma uncertainty on the last digit from TEMPO2. Uncertainties on  $\nu$  and  $\dot{\nu}$  represent the 95 percent confidence intervals scaled to the last digit. Flags indicate: PPTA — pulsar is observed as part of the Parkes Pulsar Timing Array project (Manchester et al. 2013), B — pulsar is in a binary. The full table contains 300 pulsars and is available in the supplementary material.

PSRJ	RAJ (hh:mm:ss)	DECJ (°:′:″)	$\nu$ (Hz)	$\dot{\nu}$ ( $10^{-15} \text{ s}^{-2}$ )	$\ddot{\nu}$ ( $10^{-24} \text{ s}^{-3}$ )	$N_{\text{ToA}}$	$T$ (yr)	Flags
J0030+0451	00:30:27.423(9)	+04:51:39.7(3)	205.530699027(+7, −8)	−0.39(±1)	—	58	1.04	—
J0134−2937	01:34:18.6939(2)	−29:37:17.157(5)	7.30131486798(±8)	−4.17767(±2)	(±0.1)	198	3.42	—
J0151−0635	01:51:22.718(4)	−06:35:02.98(1)	0.682750032508(+6, −5)	−0.20585(±2)	(+0.038, −0.2)	196	3.74	—
J0152−1637	01:52:10.854(1)	−16:37:53.63(3)	1.20085114658(+7, −9)	−1.87464(+2, −3)	(+0.064, −0.098)	119	3.29	—
J0206−4028	02:06:01.2931(1)	−40:28:03.616(1)	1.58591388856(±5)	−3.01013(±2)	(+0.1, −0.08)	131	3.35	—
J0255−5304	02:55:56.2939(4)	−53:04:21.250(4)	2.23359632409(±2)	−0.155852(+7, −8)	(+0.038, −0.054)	270	3.75	—
J0348+0432	03:48:43.639(3)	+04:32:11.45(2)	25.5606365903(+4, −5)	−0.158(±2)	(+26.2, −14.7)	41	2.85	B
J0401−7608	04:01:51.75(1)	−76:08:12.95(5)	1.83400700914(+9, −7)	−5.1927(+3, −4)	(+0.9, −0.4)	110	3.15	—
J0418−4154	04:18:03.7748(4)	−41:54:14.42(6)	1.32079643042(±2)	−2.30176(±6)	(+0.13, −0.58)	99	3.38	—
J0437−4715	04:37:15.8961(6)	−47:15:09.1107(3)	173.68794581(+2, −1)	−1.72(+3, −4)	—	230	1.41	PPTA, B
J0450−1248	04:50:08.7903(2)	−12:48:07.088(8)	2.28303085312(+6, −4)	−0.5358(±1)	(+1.7, −0.9)	81	3.14	—
J0452−1759	04:52:34.119(1)	−17:59:23.15(3)	1.82168155657(+5, −4)	−19.0941(+1, −3)	(+0.08, −0.45)	121	3.73	—
J0525+1115	05:25:56.498(1)	+11:15:18.8(1)	2.82137062404(±2)	−0.58697(+8, −7)	(+0.21, −0.58)	59	3.15	—
J0529−6652	05:29:50.90(3)	−66:52:39.9(3)	1.02486651379(+2, −1)	−16.2526(+3, −4)	(+20.7, −2.7)	59	2.24	—
J0533+0402	05:33:25.828(5)	+04:01:59.7(2)	1.03840237842(±2)	−0.17255(+8, −1)	(+0.46, −0.16)	54	3.14	—
J0536−7543	05:36:30.829(4)	−75:43:54.63(2)	0.802660896061(+1, −2)	−0.37076(±5)	(+0.06, −0.066)	189	3.63	—
J0601−0527	06:01:58.9731(8)	−05:27:50.92(2)	2.52544324442(+6, −7)	−8.30641(+3, −2)	(+0.085, −0.053)	208	3.72	—
J0624−0424	06:24:20.025(1)	−04:24:50.56(4)	0.962392542206(±1)	−0.769(±2)	(+0.12, −0.12)	120	3.14	—
J0627+0706	06:27:44.172(4)	+07:06:33.0(2)	2.10134828979(±1)	−131.6248(±5)	(+0.3, −1.5)	111	3.15	—
J0630−2834	06:30:49.35(1)	−28:34:42.1(2)	0.803583722117(+3, −2)	−4.6323(+1, −9)	(+0.16, −0.13)	87	3.65	—
J0646+0905	06:46:31.025(5)	+09:05:49.6(3)	1.10630072318(+7, −9)	−0.9009(±2)	(+1.3, −1.1)	160	3.01	—
J0659+1414	06:59:48.188(5)	+14:14:19.2(4)	2.59788422925(±2)	−370.7966(±9)	$1^{+1.1}_{-0.5}$	162	3.15	—
J0711−6830	07:11:54.1654(1)	−68:30:47.296(1)	182.117234537(+9, −1)	−0.4928(±3)	(+4.0, −2.5)	43	2.89	PPTA
J0729−1836	07:29:32.30(1)	−18:36:42.1(2)	1.96011842607(+2, −1)	−72.8289(+6, −7)	$-2^{+2.4}_{-1.8}$	169	3.16	—
J0737−3039A	07:37:51.24669(2)	−30:39:40.6895(3)	44.0540680812(+7, −6)	−3.4149(±3)	(+0.82, −0.63)	144	3.49	B
J0738−4042	07:38:32.244(3)	−40:42:39.43(4)	2.66723044109(±5)	−9.805(±2)	−3.5 ± 1.2	243	3.66	—
J0742−2822	07:42:48.91(4)	−28:22:44.0(7)	5.996127853(±2)	−604.187(±1)	(+1.0, −35.8)	180	3.46	—
J0758−1528	07:58:29.061(2)	−15:28:08.333(4)	1.46570344504(+3, −4)	−3.4786(+2, −1)	(+0.21, −0.28)	144	3.12	—

Table 1 – continued

PSRJ	RAJ	DECJ	$\nu$	$\dot{\nu}$	$\ddot{\nu}$	$N_{\text{ToA}}$	$T$	Flags
	(hh:mm:ss)	(°:′:″)	(Hz)	( $10^{-15} \text{ s}^{-2}$ )	( $10^{-24} \text{ s}^{-3}$ )		(yr)	
J0809–4753	08:09:43.834(3)	–47:53:54.85(2)	1.82747830432(+6, –4)	–10.2748(±2)	(+0.07, –0.32)	79	3.12	–
J0820–1350	08:20:26.407(1)	–13:50:56.32(4)	0.807668884066(±4)	–1.37174(±2)	(+0.084, –0.09)	51	3.57	–
J0820–4114	08:20:15.46(1)	–41:14:35.2(1)	1.8333635346(±7)	–0.0664(±2)	(+0.48, –0.78)	88	3.39	–
J0835–4510	08:35:20.6(2)	–45:10:33(1)	11.18677868(±2)	–13161(+5.4, –5.3)	(+19949.0, –7024.5)	1420	4.81	–
J0837+0610	08:37:05.6462(1)	+06:10:15.87(6)	0.785068914181(+2, –3)	–4.19046(+1, –8)	(+0.033, –0.016)	78	3.75	–
J0837–4135	08:37:21.1922(4)	–41:35:14.589(4)	1.33044994223(±5)	–6.26572(±3)	(+0.038, –0.09)	140	3.64	–
J0840–5332	08:40:33.726(9)	–53:32:35.95(6)	1.38770592261(±3)	–3.154(±1)	(+0.09, –0.23)	59	3.14	–
J0842–4851	08:42:05.4443(9)	–48:51:20.6(1)	1.5519428595(±9)	–23.0246(+7, –8)	(+2.7, –0.1)	53	3.13	–
J0846–3533	08:46:06.0712(4)	–35:33:40.91(6)	0.895978340332(±1)	–1.28499(±4)	(+0.13, –0.3)	65	3.3	–
J0855–3331	08:55:38.421(3)	–33:31:38.99(4)	0.788929778283(+1, –2)	–3.93327(+4, –3)	(+0.2, –0.28)	76	3.12	–
J0856–6137	08:56:59.27(1)	–61:37:52.71(8)	1.03894958562(+2, –3)	–1.813(+1, –8)	(+0.33, –0.11)	48	3.39	–
J0904–4246	09:04:59.083(9)	–42:46:13.4(1)	1.03608336991(+3, –2)	–2.0148(+9, –1)	(+0.24, –0.4)	50	3.37	–
J0904–7459	09:04:10.47(3)	–74:59:41.7(1)	1.81965845843(+1, –7)	–1.5278(+4, –3)	(+1.1, –1.0)	44	2.98	–
J0907–5157	09:07:15.901(3)	–51:57:59.36(2)	3.9438751026(+7, –5)	–28.5412(±3)	(+0.87, –0.12)	121	3.5	–
J0908–1739	09:08:38.227(4)	–17:39:39.9(1)	2.48987780015(±4)	–4.1492(±2)	(+0.27, –0.98)	37	3.16	–
J0908–4913	09:08:35.46(1)	–49:13:05.00(1)	9.36601123448(±6)	–1324.821(+3, –4)	$4^{+1.3}_{-1.5}$	173	3.48	–
J0909–7212	09:09:35.81(3)	–72:12:08.94(1)	0.733734742115(±4)	–0.1762(±2)	(+0.15, –0.41)	31	3.15	–
J0922+0638	09:22:13.85(3)	+06:38:19(1)	2.32217901642(±3)	–73.985(±1)	(+2.5, –9.6)	68	3.02	–
J0924–5302	09:24:08.722(4)	–53:02:42.6(3)	1.33987540461(±2)	–63.431(+1, –9)	(+3.9, –4.1)	137	3.2	–
J0924–5814	09:24:30.82(1)	–58:14:05.10(1)	1.35225504146(+4, –3)	–9.0013(±2)	(+0.48, –0.28)	72	3.39	–
J0934–5249	09:34:28.237(5)	–52:49:27.30(5)	0.692148271001(+1, –8)	–2.22898(±3)	(+0.07, –0.14)	152	3.16	–
J0942–5552	09:42:14.88(6)	–55:52:55.1(5)	1.50514304056(±3)	–51.376(±2)	$8^{+4.1}_{-4.3}$	150	3.69	–
J0942–5657	09:42:54.422(5)	–56:57:43.21(3)	1.23737204376(±4)	–60.6357(±2)	(+0.37, –0.09)	90	3.18	–
J0944–1354	09:44:28.967(1)	–13:54:41.88(2)	1.75357327379(+5, –7)	–0.13929(±2)	(+0.069, –0.118)	61	3.11	–
J0953+0755	09:53:09.3121(2)	+07:55:36.9(1)	3.95154788907(+9, –8)	–3.58768(±3)	(+0.021, –0.07)	73	3.71	–
J0955–5304	09:55:29.461(1)	–53:04:16.64(1)	1.15992862694(±4)	–4.74318(±1)	(+0.16, –0.078)	155	3.26	–
J0959–4809	09:59:26.212(6)	–48:09:47.47(7)	1.49234604(+5, –4)	–0.1887(+1, –9)	(+0.49, –0.27)	78	3.37	–
J1001–5507	10:01:37.85(5)	–55:07:07.8(5)	0.696073036122(+9, –1)	–24.9925(+7, –6)	$1^{+0.8}_{-1.6}$	138	3.7	–
J1003–4747	10:03:21.529(1)	–47:47:01.190(2)	3.25654170022(±3)	–21.96544(+9, –6)	(+0.29, –0.36)	69	3.13	–
J1012–5857	10:12:48.470(5)	–58:57:48.50(3)	1.21962189426(±1)	–26.47184(±4)	(+0.05, –0.23)	193	3.71	–

Table 1 – continued

PSRJ	RAJ	DECJ	$\nu$	$\dot{\nu}$	$\ddot{\nu}$	$N_{\text{ToA}}$	$T$	Flags
	(hh:mm:ss)	(°:′:″)	(Hz)	( $10^{-15} \text{ s}^{-2}$ )	( $10^{-24} \text{ s}^{-3}$ )		(yr)	
J1013–5934	10:13:31.848(2)	–59:34:26.63(1)	2.25784124141( $\pm 1$ )	–2.83682(+3, –4)	(+0.12, –0.18)	132	3.43	–
J1016–5345	10:16:31.135(4)	–53:45:14.26(3)	1.29940016176( $\pm 2$ )	–3.25316(+6, –4)	(+0.24, –0.8)	102	3.14	–
J1017–5621	10:17:12.831(1)	–56:21:30.517(7)	1.98624477638( $\pm 5$ )	–12.38704( $\pm 2$ )	(+0.2, –0.052)	127	3.17	B
J1017–7156	10:17:51.3172(5)	–71:56:41.596(2)	427.621905026( $\pm 2$ )	–0.415(+1, –8)	(+10.3, –5.6)	51	3.38	B
J1022+1001	10:22:58.3(1)	+10:01:58(5)	60.7794479207(+6, –9)	–0.1564( $\pm 3$ )	(+0.36, –0.52)	39	3.43	PPTA
J1032–5911	10:32:04.876(1)	–59:11:54.8(1)	2.15418526489(+2, –3)	–8.3414( $\pm 5$ )	(+4.9, –0.4)	152	2.51	–
J1034–3224	10:34:19.46(1)	–32:24:26.2(2)	0.869118880561(+3, –2)	–0.17372( $\pm 1$ )	(+0.14, –0.14)	41	3.74	–
J1036–4926	10:36:13.121(7)	–49:26:21.2(1)	1.95936510762( $\pm 1$ )	–6.3385( $\pm 3$ )	(+6.1, –7.5)	30	2.36	–
J1041–1942	10:41:36.191(9)	–19:42:13.7(2)	0.721308789858(+2, –3)	–0.4925( $\pm 1$ )	(+0.12, –0.13)	34	3.41	–
J1042–5521	10:42:00.4853(9)	–55:21:05.793(6)	0.854067790376( $\pm 2$ )	–4.89999(+6, –5)	(+0.24, –0.14)	101	3.36	–
J1043–6116	10:43:55.222(8)	–61:16:51.29(8)	3.46491578971(+8, –7)	–124.947( $\pm 2$ )	(+77.6, –108.0)	78	1.47	–
J1045–4509	10:45:50.1794(5)	–45:09:54.106(6)	133.79314947( $\pm 2$ )	–0.3153(+8, –6)	(+2.0, –1.0)	38	3.31	PPTA, B
J1046–5813	10:46:18.815(2)	–58:13:51.89(2)	2.70688676045( $\pm 1$ )	–8.4(+4, –3)	(+0.48, –0.5)	193	3.25	–
J1047–6709	10:47:28.285(5)	–67:09:51.61(4)	5.0389844311( $\pm 1$ )	–42.8418(+4, –3)	(+0.9, –1.2)	39	2.43	–
J1048–5832	10:48:13.1(1)	–58:32:03(1)	8.0824185121(+4, –5)	–6273.49(+2, –3)	$90^{+41.8}_{-51.2}$	232	3.44	–
J1056–6258	10:56:25.53(1)	–62:58:47.7(1)	2.36714106203( $\pm 1$ )	–20.057(+8, –7)	(+0.9, –1.0)	198	3.69	–
J1057–5226	10:57:59.068(8)	–52:26:56.10(8)	5.0731886204(+2, –3)	–150.205(+2, –1)	(+0.1, –5.6)	126	2.62	–
J1057–7914	10:57:27.7(1)	–79:14:23.6(3)	0.74216802567(+8, –7)	–0.7321(+4, –3)	(+1.4, –0.8)	41	2.84	–
J1059–5742	10:59:00.8886(4)	–57:42:14.55(3)	0.843879990895(+1, –8)	–3.0668( $\pm 3$ )	(+0.08, –0.31)	178	3.18	–
J1105–6107	11:05:26.2(1)	–61:07:48.0(8)	15.8222513283(+4, –3)	–3966.97( $\pm 1$ )	(+6.0, –31.4)	145	2.85	–
J1110–5637	11:10:00.3712(6)	–56:37:32.57(4)	1.79129810299(+1, –2)	–6.6125(+8, –4)	(+1.8, –0.2)	130	3.17	–
J1112–6613	11:12:38.414(4)	–66:13:04.663(2)	2.9920963178(+5, –3)	–7.385(+1, –2)	(+0.1, –1.6)	96	2.93	–
J1112–6926	11:12:50.78(1)	–69:26:32.33(6)	1.21878739947(+4, –3)	–4.1912( $\pm 1$ )	(+0.52, –0.6)	97	3.22	–
J1114–6100	11:14:22.69(5)	–61:00:32.1(3)	1.13525643826( $\pm 2$ )	–59.3019(+6, –5)	(+4.8, –4.2)	137	2.45	–
J1116–4122	11:16:43.083(4)	–41:22:44.86(8)	1.06026074416(+2, –3)	–8.955( $\pm 1$ )	(+0.04, –0.27)	47	3.53	–
J1121–5444	11:21:19.23(1)	–54:44:04.90(1)	1.86641502454( $\pm 2$ )	–9.7309(+7, –8)	(+2.2, –3.8)	117	2.98	–
J1123–6259	11:23:55.53(1)	–62:59:10.92(8)	3.68409189328( $\pm 1$ )	–71.2863(+3, –4)	(+5.3, –6.1)	70	2.99	–
J1126–6942	11:26:21.66(4)	–69:42:15.8(1)	1.72586751278(+3, –2)	–9.8111(+9, –1)	$-0.69^{+6}_{-2}$	34	2.06	–
J1133–6250	11:33:51.3(1)	–62:50:51(1)	0.9776360471(+6, –4)	–0.448(+9, –1)	(+132.0, –20.1)	128	1.22	–
J1136+1551	11:36:03.0946(5)	+15:51:15.9(1)	0.841809871701(+6, –2)	–2.64185(+9, –3)	(+0.34, –0.09)	36	3.63	–

Table 1 – continued

PSRJ	RAJ (hh:mm:ss)	DECJ (°:′:″)	$\nu$ (Hz)	$\dot{\nu}$ ( $10^{-15} \text{ s}^{-2}$ )	$\ddot{\nu}$ ( $10^{-24} \text{ s}^{-3}$ )	$N_{\text{ToA}}$	$T$ (yr)	Flags
J1136–5525	11:36:02.2354(5)	–55:25:06.843(5)	2.74188009799(+1, –2)	–61.8(+1, –8)	(+0.6, –3.7)	147	3.53	–
J1141–3322	11:41:42.756(2)	–33:22:37.31(5)	3.43091071248(±3)	–5.4774(±1)	(+0.24, –0.14)	51	3.13	–
J1141–6545	11:41:07.0006(6)	–65:45:19.05(3)	2.53871590079(+6, –7)	–27.7621(±4)	$0.48^{+7}_{-3}$	273	3.55	B
J1146–6030	11:46:07.7152(1)	–60:30:59.622(9)	3.65798554138(±1)	–23.93026(±4)	(+0.53, –0.3)	169	3.35	–
J1157–6224	11:57:15.208(7)	–62:24:50.90(5)	2.49671858326(+9, –7)	–24.5068(+4, –5)	(+0.9, –0.63)	229	3.55	–
J1202–5820	12:02:28.358(6)	–58:20:33.41(5)	2.20846545731(+7, –6)	–10.3828(±3)	(+0.95, –0.6)	134	3.51	–
J1210–5559	12:10:05.98706(2)	–55:59:03.8501(2)	3.57439188715(±5)	–9.26691(+2, –3)	(+0.032, –0.003)	158	3.51	–
J1224–6407	12:24:22.264(2)	–64:07:53.79(1)	4.61934676092(+4, –5)	–105.6992(+3, –2)	(+0.09, –0.92)	367	3.55	–
J1231–6303	12:31:13.0(1)	–63:03:18(1)	0.74006295676(±3)	–0.0723(+8, –7)	(+2.4, –0.8)	79	3.38	–
J1239–6832	12:39:58.96(2)	–68:32:28.94(9)	0.768094857398(±2)	–7.01054(+7, –8)	(+1.1, –0.9)	60	3.15	–
J1243–6423	12:43:17.120(6)	–64:23:23.92(4)	2.57410111798(±5)	–29.8026(±3)	(+0.0, –0.49)	345	3.63	–
J1253–5820	12:53:28.418(2)	–58:20:40.47(2)	3.91392670035(±7)	–32.2492(±3)	(+1.24, –0.01)	204	3.38	–
J1257–1027	12:57:04.7796(9)	–10:27:04.77(3)	1.61993710136(+2, –1)	–0.94879(±4)	(+0.27, –0.39)	39	3.18	–
J1259–6741	12:59:22.64(1)	–67:41:40.27(6)	1.5075450023(+5, –4)	–1.9434(±1)	(+0.8, –1.6)	42	2.54	–
J1305–6455	13:05:23.47(2)	–64:55:28.5(1)	1.74931666048(+1, –2)	–12.3373(+9, –8)	(+1.2, –2.7)	175	3.47	–
J1306–6617	13:06:38.12(1)	–66:17:21.2(1)	2.11404065516(±2)	–26.7181(±9)	(+1.41, –0.41)	125	3.38	–
J1312–5402	13:12:04.708(2)	–54:02:42.5(2)	1.37333511678(+4, –5)	–0.2765(+2, –1)	(+0.7, –1.03)	36	3.18	–
J1312–5516	13:12:53.533(9)	–55:16:47.3(1)	1.1775198318(±3)	–7.9101(±1)	(+0.3, –0.99)	98	3.07	–
J1319–6056	13:19:20.250(7)	–60:56:46.79(6)	3.51675963943(+2, –9)	–18.8878(+3, –7)	(+0.87, –0.14)	199	3.19	–
J1320–5359	13:20:53.932(2)	–53:59:04.967(3)	3.57477758551(±6)	–118.146(±3)	$0.36^{+1}_{-3}$	129	3.5	–
J1326–5859	13:26:58.219(7)	–58:59:29.29(7)	2.09207813232(+7, –8)	–14.2359(+5, –4)	(+1.4, –1.0)	306	3.63	–
J1326–6408	13:26:32.433(2)	–64:08:43.80(1)	1.26155286486(+9, –6)	–4.91831(±2)	(+0.122, –0.15)	161	2.85	–
J1326–6700	13:26:02.706(4)	–67:00:50.1(3)	1.84156958655(+4, –3)	–18.037(±2)	(+1.3, –4.2)	132	3.54	–
J1327–6222	13:27:17.36(7)	–62:22:44.7(5)	1.8870445541(+4, –3)	–66.926(±2)	$2.37^{+7}_{-5}$	308	3.63	–
J1327–6301	13:27:07.4320(3)	–63:01:15.51(2)	5.08957797539(±4)	–39.6313(±1)	(+0.49, –0.29)	238	3.41	–
J1328–4357	13:28:06.4198(5)	–43:57:44.50(8)	1.87722052793(±7)	–10.7557(+4, –3)	$0.29 \pm 2$	93	2.99	–
J1338–6204	13:38:09.247(7)	–62:04:18.7(5)	0.80710212469(±2)	–8.9837(+6, –5)	(+2.9, –4.5)	198	2.47	–
J1350–5115	13:50:16.159(2)	–51:15:24.56(3)	3.38180924275(+8, –6)	–8.6634(+2, –1)	(+4.0, –5.1)	95	2.43	–
J1355–5153	13:55:58.692(2)	–51:53:53.95(2)	1.55206115637(±3)	–6.7736(±1)	(+0.26, –0.23)	123	3.19	–
J1356–5521	13:56:50.49(2)	–55:21:15.2(2)	1.97090897627(±2)	–2.8152(+5, –4)	(+14.3, –9.1)	31	2.39	–

Table 1 – continued

PSRJ	RAJ	DECJ	$\nu$	$\dot{\nu}$	$\ddot{\nu}$	$N_{\text{ToA}}$	$T$	Flags
	(hh:mm:ss)	(°:′:″)	(Hz)	( $10^{-15} \text{ s}^{-2}$ )	( $10^{-24} \text{ s}^{-3}$ )		(yr)	
J1359–6038	13:59:58.230(9)	–60:38:07.671(7)	7.84261649234( $\pm 2$ )	–389.488( $\pm 1$ )	–3 $^{+3.3}_{-1.1}$	429	3.54	–
J1401–6357	14:01:52.45(1)	–63:57:42.0(1)	1.18651362793(+8, –1)	–23.6871(+5, –4)	(+0.4, –1.3)	245	3.56	–
J1413–6307	14:13:31.32(4)	–63:07:34.6(3)	2.5319550816( $\pm 1$ )	–47.9(+4, –3)	–4 $^{+3.3}_{-1.1}$	152	2.43	–
J1418–3921	14:18:50.28(1)	–39:21:18.6(2)	0.911737714389(+2, –3)	–0.73841(+8, –6)	(+0.42, –0.39)	57	3.63	–
J1420–5416	14:20:29.11(1)	–54:16:22.7(1)	1.06863614348( $\pm 2$ )	–0.26515(+6, –7)	(+0.22, –0.3)	74	3.08	–
J1424–5822	14:24:32.130(8)	–58:22:55.7(1)	2.7267557238(+1, –9)	–29.262( $\pm 2$ )	(+120.5, –91.9)	188	1.25	–
J1428–5530	14:28:26.240(3)	–55:30:50.06(4)	1.75348642691( $\pm 1$ )	–6.41562(+4, –3)	0.055 $\pm$ 5	168	3.66	–
J1430–6623	14:30:40.732(1)	–66:23:05.546(1)	1.2731663027( $\pm 6$ )	–4.50256(+4, –3)	(+0.032, –0.039)	170	3.57	–
J1435–5954	14:35:00.208(1)	–59:54:49.5(1)	2.11418109778( $\pm 4$ )	–6.9189( $\pm 1$ )	(+0.81, –0.52)	254	3.49	–
J1452–6036	14:52:51.80(1)	–60:36:30.00(8)	6.4519415824( $\pm 1$ )	–60.401(+3, –2)	(+105.1, –110.5)	152	1.32	–
J1453–6413	14:53:32.652(1)	–64:13:16.095(9)	5.571424352(+2, –3)	–85.1854(+2, –1)	(+0.18, –0.24)	234	3.56	–
J1456–6843	14:55:59.914(1)	–68:43:39.49(1)	3.79684009011(+5, –6)	–1.42687(+3, –2)	(+0.044, –0.009)	119	4.21	–
J1457–5122	14:57:40.093(8)	–51:22:54.9(1)	0.57198175779(+1, –2)	–1.73305(+5, –7)	(+0.22, –0.24)	39	3.03	–
J1507–4352	15:07:34.175(4)	–43:52:04.05(1)	3.48725495693( $\pm 1$ )	–19.2672(+5, –4)	(+0.8, –1.4)	56	3.17	–
J1507–6640	15:07:48.634(1)	–66:40:57.86(1)	2.81170331276(+8, –9)	–9.1066( $\pm 2$ )	(+0.22, –0.14)	111	2.97	–
J1511–5414	15:11:51.285(3)	–54:14:40.32(6)	4.99041973147(+8, –6)	–12.072(+1, –2)	(+144.8, –15.3)	101	1.25	–
J1512–5759	15:12:43.13(1)	–58:00:00.43(1)	7.77001479211( $\pm 5$ )	–413.71( $\pm 2$ )	(+1.7, –13.0)	177	3.19	–
J1514–4834	15:14:14.563(2)	–48:34:19.97(4)	2.19857371563( $\pm 3$ )	–4.47652(+9, –8)	(+2.2, –0.3)	51	2.55	–
J1522–5829	15:22:42.244(4)	–58:29:02.815(3)	2.52937565301(+7, –9)	–13.1588(+3, –4)	(+0.25, –1.07)	187	3.21	–
J1527–3931	15:27:58.828(9)	–39:31:34.2(2)	0.41363243246( $\pm 1$ )	–3.26122(+4, –5)	(+0.19, –0.15)	36	3.21	–
J1527–5552	15:27:40.734(4)	–55:52:08.352(6)	0.953544682096(+3, –4)	–10.2459(+2, –1)	(+0.25, –0.0)	134	3.21	–
J1528–3146	15:28:34.952(1)	–31:46:06.944(6)	16.4413569253(+2, –1)	–0.068(+5, –6)	(+1.36, –0.57)	25	3.05	B
J1534–5334	15:34:08.2790(1)	–53:34:19.57(2)	0.730523027415(+2, –3)	–0.76251( $\pm 7$ )	(+0.013, –0.016)	231	3.63	–
J1534–5405	15:34:33.59(1)	–54:05:40.5(2)	3.4519643055(+1, –8)	–18.528(+2, –3)	4 $^{+5.5}_{-4.5}$	100	2.43	–
J1539–5626	15:39:14.07(1)	–56:26:26.2(1)	4.10852985562(+3, –6)	–81.894(+3, –1)	(+1.5, –7.0)	179	3.13	–
J1542–5034	15:42:45.32(2)	–50:34:03.66(3)	1.6687581689(+9, –1)	–11.208(+4, –3)	(+5.2, –7.3)	59	2.39	–
J1543+0929	15:43:38.82(2)	+09:29:16.4(5)	1.33609682985( $\pm 2$ )	–0.7773( $\pm 7$ )	(+1.7, –1.6)	28	2.75	–
J1544–5308	15:44:59.8294(6)	–53:08:46.953(9)	5.60055059845(+1, –9)	–1.88991(+3, –4)	(+0.17, –0.26)	164	3.58	–
J1549–4848	15:49:21.027(6)	–48:48:36.1(1)	3.46791653545(+9, –1)	–169.702( $\pm 2$ )	(+63.2, –56.4)	44	1.46	–
J1553–5456	15:53:59.61(1)	–54:56:06.25(1)	0.9247724034(+6, –5)	–13.4399( $\pm 1$ )	(+36.6, –44.9)	73	1.21	–

Table 1 – continued

PSRJ	RAJ (hh:mm:ss)	DECJ (°:′:″)	$\nu$ (Hz)	$\dot{\nu}$ ( $10^{-15} \text{ s}^{-2}$ )	$\ddot{\nu}$ ( $10^{-24} \text{ s}^{-3}$ )	$N_{\text{ToA}}$	$T$ (yr)	Flags
J1555–3134	15:55:17.947(2)	–31:34:20.3(1)	1.93009273101( $\pm 2$ )	–0.23061( $\pm 7$ )	(+0.34, –0.11)	49	3.19	–
J1557–4258	15:57:00.25445(6)	–42:58:12.35(1)	3.0377858242(+1, –2)	–3.04646(+8, –7)	(+0.05, –0.131)	90	3.54	–
J1559–4438	15:59:41.525(1)	–44:38:45.85(3)	3.89018703598(+2, –3)	–15.4484( $\pm 2$ )	(+0.53, –0.27)	66	3.37	–
J1559–5545	15:59:20.7(1)	–55:45:47(1)	1.04464080328( $\pm 5$ )	–21.733( $\pm 3$ )	(+12.5, –3.9)	87	3.49	–
J1600–3053	16:00:51.8941(7)	–30:53:49.70(3)	277.937706823( $\pm 2$ )	–0.687( $\pm 5$ )	(+47.9, –46.2)	32	3.39	PPTA, B
J1600–5044	16:00:53.033(5)	–50:44:20.93(8)	5.19197591119( $\pm 2$ )	–136.452(+1, –9)	(+3.1, –1.2)	175	3.63	–
J1603–2531	16:03:04.8253(6)	–25:31:47.9(4)	3.53267858106( $\pm 4$ )	–19.8906( $\pm 2$ )	(+1.13, –0.29)	29	3.36	–
J1603–2712	16:03:08.036(1)	–27:13:27.0(7)	1.28482652061( $\pm 4$ )	–4.9683(+1, –2)	(+0.11, –0.28)	29	3.0	–
J1603–7202	16:03:35.6736(9)	–72:02:32.795(7)	67.3765811129(+1, –2)	–0.074(+6, –5)	(+0.66, –0.56)	38	3.11	PPTA, B
J1604–4909	16:04:22.985(2)	–49:09:58.33(5)	3.05419496456( $\pm 5$ )	–9.4894( $\pm 3$ )	(+1.25, –0.25)	113	3.47	–
J1605–5257	16:05:16.265(3)	–52:57:34.80(5)	1.51972586121( $\pm 1$ )	–0.59109(+4, –3)	(+0.12, –0.43)	162	3.75	–
J1613–4714	16:13:29.018(4)	–47:14:26.41(8)	2.61522196138( $\pm 2$ )	–4.33493( $\pm 6$ )	(+0.31, –0.23)	65	3.35	–
J1622–4950	16:22:44.80(3)	–49:50:54.5(5)	0.2311087( $\pm 3$ )	–526(+54.3, –56.9)	(+5145.6, –7084.3)	77	1.21	–
J1623–0908	16:23:17.658(4)	–09:08:48.9(3)	0.783424111867(+2, –1)	–1.58401( $\pm 5$ )	(+0.36, –0.49)	31	3.13	–
J1623–4256	16:23:48.291(6)	–42:56:52.6(1)	2.74279572052( $\pm 1$ )	–7.5624(+8, –7)	(+1.16, –0.06)	57	3.47	–
J1626–4537	16:26:48.94(1)	–45:37:25.8(6)	2.701641249( $\pm 2$ )	–60.541( $\pm 4$ )	(+190.9, –230.7)	35	1.21	–
J1633–4453	16:33:47.03(3)	–44:53:08.58(7)	2.2908895877( $\pm 3$ )	–32.539(+5, –6)	(+327.5, –153.7)	33	1.24	–
J1633–5015	16:33:00.0861(1)	–50:15:08.358(3)	2.83973605453( $\pm 1$ )	–30.54746( $\pm 4$ )	(+0.128, –0.07)	110	3.74	–
J1639–4604	16:39:21.198(3)	–46:04:33.23(7)	1.88992880367( $\pm 3$ )	–20.60947( $\pm 9$ )	(+0.69, –0.88)	57	2.47	–
J1644–4559	16:44:49.234(6)	–45:59:10.3(1)	2.19742452445(+4, –3)	–96.9653(+4, –5)	$1^{+1.1}_{-1.4}$	648	4.1	–
J1646–6831	16:46:54.91(3)	–68:31:51.7(1)	0.560031669373( $\pm 2$ )	–0.5337( $\pm 1$ )	(+0.074, –0.14)	27	3.35	–
J1651–4246	16:51:48.797(6)	–42:46:09.97(1)	1.18472094037(+4, –5)	–6.662(+3, –2)	(+0.72, –0.76)	148	3.46	–
J1651–5222	16:51:42.962(2)	–52:22:58.38(3)	1.5746588888( $\pm 1$ )	–4.48968( $\pm 3$ )	(+0.24, –0.017)	95	3.38	–
J1651–5255	16:51:41.41(1)	–52:55:47.7(2)	1.12291858733( $\pm 1$ )	–2.6677( $\pm 6$ )	(+0.94, –0.04)	71	3.14	–
J1652–2404	16:52:58.50(5)	–24:03:54(7)	0.586943472123(+4, –3)	–1.0877( $\pm 1$ )	(+0.29, –0.26)	27	2.87	–
J1700–3312	17:00:52.96(2)	–33:12:45(1)	0.736209097583(+6, –5)	–2.5543( $\pm 2$ )	(+0.19, –0.37)	53	3.36	–
J1701–3726	17:01:18.45(1)	–37:26:27.2(5)	0.407395359535( $\pm 2$ )	–1.84611(+5, –6)	(+0.23, –0.21)	62	3.17	–
J1703–1846	17:03:51.102(9)	–18:46:13(1)	1.24325189271( $\pm 3$ )	–2.67613( $\pm 1$ )	(+0.06, –0.21)	34	3.18	–
J1703–3241	17:03:22.514(2)	–32:41:48.5(1)	0.825228539025( $\pm 5$ )	–0.44787( $\pm 2$ )	(+0.057, –0.067)	81	3.54	–
J1703–4851	17:03:54.541(7)	–48:52:01.04(1)	0.716124628374( $\pm 2$ )	–2.60178(+5, –7)	(+0.22, –0.09)	50	3.36	–

Table 1 – continued

PSRJ	RAJ	DECJ	$\nu$	$\dot{\nu}$	$\ddot{\nu}$	$N_{\text{ToA}}$	$T$	Flags
	(hh:mm:ss)	(°:′:″)	(Hz)	( $10^{-15} \text{ s}^{-2}$ )	( $10^{-24} \text{ s}^{-3}$ )		(yr)	
J1705–1906	17:05:36.093(2)	–19:06:39.2(3)	3.34458679304(+6, –7)	–46.2498(±3)	(+0.27, –0.89)	78	3.52	–
J1705–3423	17:05:42.362(3)	–34:23:43.1(2)	3.91501633777(±1)	–16.4861(+6, –5)	(+0.6, –1.6)	112	3.43	–
J1707–4053	17:07:21.78(2)	–40:53:55.1(9)	1.72111797519(±2)	–5.6882(+5, –4)	(+2.0, –1.5)	57	3.51	–
J1708–3426	17:08:57.79(1)	–34:26:44.0(6)	1.44484514046(+3, –5)	–8.7827(±2)	(+0.42, –0.59)	52	3.35	–
J1709–1640	17:09:26.452(4)	–16:40:59.2(4)	1.53125350203(+1, –7)	–14.8003(+5, –6)	0.61 ± 2	38	3.63	–
J1709–4429	17:09:42.62(5)	–44:29:12(1)	9.7542901224(+6, –4)	–8850.16(+6, –8)	196 $^{+31.4}_{-20.1}$	111	3.5	–
J1711–5350	17:11:53.13(1)	–53:50:18.3(2)	1.11205916031(±1)	–19.2133(±5)	(+0.47, –0.73)	46	3.1	–
J1715–4034	17:15:40.92(3)	–40:34:18(1)	0.482589475307(+7, –6)	–0.7063(±2)	(+0.48, –0.52)	76	3.5	–
J1717–3425	17:17:20.30(1)	–34:25:00.31(8)	1.52368077976(+5, –6)	–22.72(±2)	2 $^{+1.7}_{-1.6}$	56	2.38	–
J1717–4054	17:17:52.31(1)	–41:03:13.0(4)	1.12648202933(+6, –8)	–4.7161(+8, –5)	–1.54 $^{+9}_{-2}$	31	4.09	–
J1720–1633	17:20:25.23(1)	–16:33:35(1)	0.638730665146(±3)	–2.3719(+9, –1)	(+0.23, –0.06)	41	3.13	–
J1720–2933	17:20:34.131(5)	–29:33:14.0(5)	1.61173637049(+3, –2)	–1.9396(±1)	(+0.22, –0.22)	43	3.29	–
J1722–3207	17:22:02.9641(1)	–32:07:45.07(6)	2.09574210095(±3)	–2.8316(±1)	(+0.2, –0.22)	89	3.17	–
J1722–3712	17:22:59.17(5)	–37:12:03.(2)	4.23402576366(±4)	–194.486(±2)	16 $^{+13.7}_{-12.7}$	116	3.1	–
J1727–2739	17:27:30.98(3)	–27:38:53(4)	0.7733354277(+3, –2)	–0.6399(+5, –6)	3 $^{+15.8}_{-1.7}$	34	2.42	–
J1730–2304	17:30:21.682(4)	–23:04:30(1)	123.110287079(+1, –9)	–0.3023(+2, –4)	(+1.6, –1.2)	42	3.3	PPTA
J1731–4744	17:31:42.21(1)	–47:44:38.7(4)	1.2049313854(+2, –3)	–237.394(±5)	–9 $^{+3.2}_{-0.6}$	145	3.58	–
J1733–2228	17:33:26.43(3)	–22:28:37(10)	1.14720621377(±5)	–0.0585(+2, –1)	23 $^{+0.0}_{-14.1}$	40	3.05	–
J1736–2457	17:36:45.4(1)	–24:57:50(33)	0.3784689286(+3, –2)	–0.452(+5, –6)	(+174.6, –205.3)	25	1.14	–
J1739–2903	17:39:34.285(2)	–29:03:03.96(3)	3.09704932896(+9, –8)	–75.5355(+3, –4)	(+0.36, –0.6)	88	3.02	–
J1740–3015	17:40:33.98(5)	–30:15:22(5)	1.647450502(+2, –3)	–1263.51(+7, –9)	(+46.0, –51.7)	229	3.47	–
J1741–3927	17:41:18.079(1)	–39:27:38.12(7)	1.95231526583(±1)	–6.4645(+5, –6)	2.81 $^{+3}_{-5}$	74	3.14	–
J1743–3150	17:43:36.710(8)	–31:50:22.7(9)	0.414138298084(±1)	–20.7152(+4, –5)	(+0.13, –0.09)	84	3.16	–
J1745–3040	17:45:56.3081(6)	–30:40:23.30(6)	2.72156341619(+1, –2)	–79.04005(+8, –9)	(+0.23, –0.1)	110	3.5	–
J1751–4657	17:51:42.185(1)	–46:57:26.72(4)	1.34706694407(+4, –3)	–2.35478(+1, –2)	(+0.09, –0.083)	53	3.61	–
J1752–2806	17:52:58.707(8)	–28:06:36(1)	1.77757096075(±6)	–25.6877(+8, –7)	0.51 $^{+3}_{-4}$	145	4.1	–
J1757–2421	17:57:29.37(1)	–24:19:54(10)	4.2715099866(+2, –3)	–236.544(+5, –4)	(+166.8, –147.0)	66	1.31	–
J1759–2205	17:59:24.164(4)	–22:05:33(2)	2.16928428064(+1, –2)	–51.0746(+7, –6)	(+1.52, –0.26)	54	3.02	–
J1759–3107	17:59:22.056(4)	–31:07:21.8(5)	0.926822758345(±3)	–3.24135(±9)	(+0.81, –0.48)	40	2.39	–
J1801–0357	18:01:22.628(3)	–03:57:55.7(2)	1.08519559579(±4)	–3.8928(±1)	(+0.78, –0.46)	29	2.34	–

Table 1 – continued

PSRJ	RAJ	DECJ	$\nu$	$\dot{\nu}$	$\ddot{\nu}$	$N_{\text{ToA}}$	$T$	Flags
	(hh:mm:ss)	(°:′:″)	(Hz)	( $10^{-15} \text{ s}^{-2}$ )	( $10^{-24} \text{ s}^{-3}$ )		(yr)	
J1801–2920	18:01:46.839(3)	–29:20:38.1(3)	0.924290873961( $\pm 1$ )	–2.81266( $\pm 3$ )	(+0.24, –0.02)	60	3.26	–
J1803–2137	18:03:51.4(1)	–21:37:07.(27)	7.478883401(+4, –6)	–7488(+1.1, –0.9)	$283^{+29.1}_{-39.6}$	52	1.29	–
J1805–1504	18:05:06.1(2)	–15:04:36(10)	0.84654711( $\pm 1$ )	–0.31( $\pm 2$ )	(+378.9, –625.7)	28	1.25	–
J1807–0847	18:07:38.0259(2)	–08:47:43.28(1)	6.10771328217(+6, –5)	–1.06808(+2, –1)	(+0.12, –0.057)	74	3.7	–
J1807–2715	18:07:08.4918(3)	–27:15:02.07(5)	1.20804374592( $\pm 6$ )	–17.8128( $\pm 2$ )	(+0.65, –0.2)	77	3.12	–
J1808–0813	18:08:09.432(1)	–08:13:01.8(4)	1.14149384538( $\pm 5$ )	–1.6108( $\pm 2$ )	(+0.13, –0.35)	32	3.38	–
J1809–2109	18:09:14.32(3)	–21:09:02.(5)	1.42365721129( $\pm 4$ )	–7.747( $\pm 1$ )	(+22.7, –13.0)	29	2.4	–
J1810–5338	18:10:44.473(3)	–53:38:07.631(6)	3.8306868647( $\pm 4$ )	–5.6604( $\pm 1$ )	(+0.78, –0.49)	32	2.96	–
J1816–2650	18:16:35.399(6)	–26:49:53(1)	1.68666719259(+2, –3)	–0.18919(+9, –1)	(+0.75, –0.83)	51	3.35	–
J1818–1422	18:18:23.77(1)	–14:22:39(1)	3.43064845763( $\pm 2$ )	–23.9924(+6, –7)	(+1.2, –3.0)	51	3.02	–
J1820–0427	18:20:52.559(2)	–04:27:37.9(1)	1.67201171071(+6, –9)	–17.6967(+5, –3)	$-0.64^{+5}_{-6}$	55	3.63	–
J1822–2256	18:22:58.95(4)	–22:56:29(16)	0.53354117731( $\pm 2$ )	–0.38531( $\pm 5$ )	(+0.31, –0.14)	57	3.33	–
J1823–0154	18:23:52.138(3)	–01:54:04.94(1)	1.31617369972(+3, –2)	–1.95718( $\pm 9$ )	(+0.41, –0.34)	35	3.14	–
J1823–1115	18:23:40.3(1)	–11:15:11(1)	3.57360247363( $\pm 2$ )	–17.5869(+7, –8)	(+2.8, –2.4)	53	3.19	B
J1823–3106	18:23:46.819(4)	–31:06:48.0(3)	3.52042950493(+1, –9)	–36.3594(+4, –6)	$0.69 \pm 3$	35	3.11	–
J1824–0127	18:24:53.43(1)	–01:27:51.4(4)	0.400084842618( $\pm 3$ )	–0.62531(+8, –1)	(+0.81, –0.82)	30	2.4	–
J1824–1945	18:24:00.4360(4)	–19:45:44.5(8)	5.28154642765( $\pm 1$ )	–146.2029(+8, –7)	$-2^{+1.9}_{-1.9}$	95	3.38	–
J1825–0935	18:25:30.62(6)	–09:35:22(4)	1.3003801253( $\pm 1$ )	–88.397( $\pm 3$ )	(+59.4, –52.1)	144	3.84	–
J1827–0750	18:27:02.7071(6)	–07:50:15.4(2)	3.69682174881(+6, –5)	–21.224( $\pm 2$ )	(+8.0, –6.7)	49	2.36	–
J1829–1751	18:29:43.15(1)	–17:51:13(1)	3.25587939511(+2, –3)	–58.78( $\pm 1$ )	(+0.9, –1.1)	79	3.41	–
J1830–1135	18:30:01.787(6)	–11:35:27(6)	0.160730937421( $\pm 6$ )	–1.2319( $\pm 2$ )	(+0.51, –0.61)	40	2.99	–
J1832–0827	18:32:37.013(2)	–08:27:03.16(1)	1.54478860938( $\pm 6$ )	–152.4959(+3, –2)	$-0.39 \pm 3$	93	3.21	–
J1833–0338	18:33:42.028(8)	–03:39:08.00(3)	1.45617035595(+1, –9)	–88.0832(+4, –5)	$1^{+1.1}_{-1.7}$	102	3.19	–
J1833–0827	18:33:40.245(2)	–08:27:30.9(1)	11.7247184586( $\pm 5$ )	–1261.993( $\pm 2$ )	(+4.1, –5.2)	54	2.96	–
J1834–0426	18:34:25.621(3)	–04:26:15.7(2)	3.44698922332( $\pm 3$ )	–0.8605( $\pm 1$ )	(+1.0, –0.8)	53	3.22	–
J1835–1020	18:35:57.44(3)	–10:19:51(2)	3.3063181115( $\pm 1$ )	–64.651( $\pm 5$ )	(+5.2, –16.0)	53	3.23	–
J1836–0436	18:36:51.77(1)	–04:36:37.3(7)	2.82296346028( $\pm 4$ )	–13.232( $\pm 1$ )	(+11.7, –48.8)	31	2.42	–
J1836–1008	18:36:53.922(3)	–10:08:09.39(2)	1.77708391524(+8, –1)	–37.1805(+8, –4)	(+1.2, –1.3)	74	3.53	–
J1837–0653	18:37:14.53(7)	–06:52:55(5)	0.52471147608(+4, –5)	–0.194(+2, –1)	(+6.1, –6.1)	50	2.24	–
J1840–0809	18:40:33.365(6)	–08:09:03.62(4)	1.04638272527( $\pm 3$ )	–2.57306(+9, –1)	(+0.17, –0.2)	75	3.43	–

Table 1 – continued

PSRJ	RAJ (hh:mm:ss)	DECJ (°:′:″)	$\nu$ (Hz)	$\dot{\nu}$ ( $10^{-15} \text{ s}^{-2}$ )	$\ddot{\nu}$ ( $10^{-24} \text{ s}^{-3}$ )	$N_{\text{ToA}}$	$T$ (yr)	Flags
J1840–0815	18:40:13.756(9)	–08:15:08.88(4)	0.912041662037( $\pm 3$ )	–2.01835( $\pm 8$ )	(+0.6, –1.3)	51	2.44	–
J1841–0425	18:41:05.663(5)	–04:25:19.5(2)	5.37198570613( $\pm 4$ )	–184.318( $\pm 1$ )	(+3.2, –6.3)	31	2.24	–
J1841+0912	18:41:55.921(7)	+09:12:07.29(2)	2.62246808546(+3, –4)	–7.505(+2, –1)	(+0.3, –4.2)	29	3.23	–
J1842–0359	18:42:26.49(1)	–04:00:01.52(7)	0.543494594895( $\pm 5$ )	–0.1501( $\pm 1$ )	(+0.4, –1.0)	77	3.44	–
J1843–0000	18:43:27.965(9)	–00:00:41.5(2)	1.13593208324(+1, –2)	–10.0305( $\pm 7$ )	(+1.0, –0.7)	60	3.19	–
J1844–0433	18:44:33.446(3)	–04:33:12.5(1)	1.00905187281( $\pm 2$ )	–3.98545(+4, –5)	(+0.29, –0.24)	46	2.68	–
J1845–0743	18:45:57.1763(9)	–07:43:38.16(5)	9.55157970586(+5, –4)	–33.444( $\pm 1$ )	(+1.5, –2.4)	72	2.46	–
J1847–0402	18:47:22.850(1)	–04:02:14.70(7)	1.67277577163(+6, –4)	–144.6391(+2, –3)	(+0.36, –0.0)	127	3.53	–
J1848–0123	18:48:23.596(1)	–01:23:58.48(6)	1.51644857592(+3, –6)	–11.9808(+4, –2)	$0.19^{+2}_{-1}$	111	3.49	–
J1849–0636	18:49:06.4647(2)	–06:37:06.91(1)	0.689011346415( $\pm 3$ )	–21.9601( $\pm 1$ )	(+0.02, –0.23)	108	3.23	–
J1852–0635	18:52:57.448(5)	–06:36:00.45(2)	1.90782618111(+5, –4)	–53.2438( $\pm 1$ )	(+0.59, –0.23)	109	3.25	–
J1852–2610	18:52:59.471(5)	–26:10:13.6(6)	2.9732067598( $\pm 6$ )	–0.7704(+1, –2)	(+1.5, –1.9)	25	2.43	–
J1857+0212	18:57:43.654(8)	+02:12:41.0(3)	2.40470716439(+9, –1)	–232.7342( $\pm 3$ )	(+1.4, –0.35)	71	2.72	–
J1900–2600	19:00:47.542(5)	–26:00:44.8(6)	1.63342812459( $\pm 1$ )	–0.54862(+4, –5)	(+0.15, –0.167)	40	3.44	–
J1901+0331	19:01:31.76(1)	+03:31:06.73(4)	1.52565744968( $\pm 2$ )	–17.3341(+8, –6)	(+2.3, –2.6)	127	3.13	–
J1901+0716	19:01:39.02(1)	+07:16:33.6(5)	1.55279458439( $\pm 4$ )	–5.577( $\pm 1$ )	(+4.6, –1.3)	28	2.61	–
J1901–0906	19:01:53.007(3)	–09:06:10.9(2)	0.561189668479(+6, –7)	–0.516( $\pm 2$ )	(+0.08, –0.19)	52	3.12	–
J1902+0556	19:02:42.60(1)	+05:56:25.8(1)	1.33943019014( $\pm 1$ )	–23.0839( $\pm 4$ )	(+1.3, –2.6)	32	2.44	–
J1902+0615	19:02:50.277(3)	+06:16:33.41(7)	1.48476895959( $\pm 4$ )	–16.9975( $\pm 1$ )	(+0.5, –2.3)	45	2.62	–
J1903+0135	19:03:29.973(1)	+01:35:38.73(4)	1.37116475483( $\pm 2$ )	–7.57312( $\pm 8$ )	(+0.16, –0.28)	94	3.18	–
J1903–0632	19:03:37.934(2)	–06:32:21.52(9)	2.31540809127(+7, –8)	–18.1244(+4, –3)	(+0.16, –0.71)	69	3.14	–
J1905–0056	19:05:27.752(6)	–00:56:40.8(3)	1.55476661905(+7, –6)	–7.3951( $\pm 1$ )	(+2.0, –1.7)	29	2.45	–
J1909+0007	19:09:35.252(2)	+00:07:56.84(9)	0.983329997648(+4, –7)	–5.3391(+3, –2)	(+0.37, –0.68)	71	3.07	–
J1909+0254	19:09:38.311(2)	+02:54:50.36(9)	1.01026940483( $\pm 1$ )	–5.61185( $\pm 4$ )	(+0.24, –0.1)	51	3.19	–
J1909+1102	19:09:48.6829(9)	+11:02:03.044(3)	3.5255695764(+1, –9)	–32.8178( $\pm 4$ )	$1^{+0.7}_{-1.1}$	95	3.19	–
J1909–3744	19:09:47.42783(7)	–37:44:14.767(3)	339.315686856( $\pm 5$ )	–1.6153( $\pm 2$ )	(+4, –5)	68	3.54	PPTA, B
J1910–0309	19:10:29.692(2)	–03:09:54.1(1)	1.98174395507(+3, –4)	–8.61183( $\pm 1$ )	$-0.22^{+2}_{-4}$	43	3.09	–
J1910+0358	19:10:09.016(3)	+03:58:30(1)	0.429135601854(+1, –8)	–0.8134( $\pm 3$ )	(+1.6, –1.9)	44	2.39	–
J1913–0440	19:13:54.1624(9)	–04:40:47.56(4)	1.21074218559( $\pm 2$ )	–5.9681( $\pm 1$ )	(+0.38, –0.21)	88	3.52	–
J1913+1400	19:13:24.352(1)	+14:00:52.50(3)	1.91764388163(+2, –3)	–2.95953( $\pm 7$ )	(+0.29, –0.24)	66	2.63	–

Table 1 – continued

PSRJ	RAJ (hh:mm:ss)	DECJ (°:′:″)	$\nu$ (Hz)	$\dot{\nu}$ ( $10^{-15} \text{ s}^{-2}$ )	$\ddot{\nu}$ ( $10^{-24} \text{ s}^{-3}$ )	$N_{\text{ToA}}$	$T$ (yr)	Flags
J1915+1009	19:15:29.993(1)	+10:09:43.58(3)	2.47187153893( $\pm 3$ )	−93.22115(+9, −8)	(+0.71, −0.2)	105	3.13	–
J1916+0951	19:16:32.333(1)	+09:51:25.97(3)	3.70019376623( $\pm 8$ )	−34.52(+4, −3)	(+0.1, −0.51)	86	3.17	–
J1916+1312	19:16:58.67(2)	+13:12:50.0(4)	3.548050079( $\pm 2$ )	−46.069(+4, −5)	(+49.9, −9.6)	39	161.67	–
J1917+1353	19:17:39.794(3)	+13:53:57.16(8)	5.13779943103( $\pm 4$ )	−189.936( $\pm 1$ )	$1^{+1.1}_{-1.5}$	71	2.47	–
J1919+0021	19:19:50.670(2)	+00:21:39.8(1)	0.78599927(+8, −7)	−4.74138(+2, −3)	(+0.18, −0.15)	97	3.26	–
J1926+0431	19:26:24.472(2)	+04:31:31.54(8)	0.931029279866(+1, −2)	−2.13409(+4, −5)	(+0.18, −0.1)	130	3.18	–
J1932+1059	19:32:14.038(2)	+10:59:33.21(5)	4.41464565156( $\pm 1$ )	−22.5369(+7, −6)	(+1.6, −1.4)	116	3.64	–
J1932−3655	19:32:06.1280(6)	−36:55:01.78(3)	1.75002463079(+9, −1)	−0.8767( $\pm 3$ )	(+0.6, −3.6)	39	2.38	–
J1935+1616	19:35:47.8255(2)	+16:16:39.723(4)	2.78750145981(+3, −5)	−46.6373(+1, −8)	(+0.51, −0.31)	59	2.15	–
J1941−2602	19:41:00.4169(1)	−26:02:05.884(9)	2.48226091399(+9, −8)	−5.89424( $\pm 2$ )	(+0.21, −0.098)	105	3.09	–
J1943−1237	19:43:25.461(3)	−12:37:42.9(2)	1.02835150982(+1, −9)	−1.75624(+4, −3)	(+1.4, −0.2)	54	3.22	–
J1945−0040	19:45:28.33(3)	−00:40:59(1)	0.9563585837( $\pm 1$ )	−0.47( $\pm 2$ )	(+79.1, −88.5)	64	1.3	–
J1946−2913	19:46:51.757(5)	−29:13:48.1(3)	1.04226478935( $\pm 1$ )	−1.61748(+5, −4)	(+0.2, −0.14)	63	3.27	–
J2006−0807	20:06:16.365(4)	−08:07:02.16(2)	1.72155151633( $\pm 5$ )	−0.1355(+1, −9)	(+0.52, −0.4)	255	3.42	–
J2033+0042	20:33:31.12(2)	+00:42:24.1(9)	0.199465428208(+3, −2)	−0.38564(+6, −7)	(+0.21, −0.09)	129	3.28	–
J2038−3816	20:38:54.36(3)	−38:16:15.6(9)	0.633999188596( $\pm 9$ )	−1.6728( $\pm 3$ )	(+2.6, −6.7)	48	2.4	–
J2046−0421	20:46:00.1760(2)	−04:21:26.3(1)	0.646437789195(+1, −9)	−0.61473(+3, −2)	(+0.044, −0.064)	141	3.41	–
J2046+1540	20:46:39.336(5)	+15:40:33.6(1)	0.878513972444( $\pm 3$ )	−0.14056( $\pm 7$ )	(+0.21, −0.24)	72	3.39	–
J2048−1616	20:48:35.74(2)	−16:16:45(1)	0.509792367545( $\pm 6$ )	−2.84929( $\pm 2$ )	(+0.071, −0.055)	105	4.04	–
J2051−0827	20:51:07.52058(5)	−08:27:37.61(2)	221.796283548( $\pm 3$ )	−0.6248(+9, −7)	(+2.6, −0.5)	193	3.23	B
J2053−7200	20:53:47.280(4)	−72:00:42.48(2)	2.9296611297( $\pm 3$ )	−1.69606(+9, −8)	(+0.1, −0.19)	64	3.22	–
J2116+1414	21:16:13.761(1)	+14:14:20.38(4)	2.27193569866( $\pm 4$ )	−1.49439( $\pm 8$ )	(+0.13, −0.38)	127	3.18	–
J2129−5721	21:29:22.77664(9)	−57:21:14.2954(7)	268.359226956( $\pm 2$ )	−1.5024( $\pm 5$ )	(+14.1, −15.3)	100	2.22	PPTA, B
J2144−3933	21:44:12.01(1)	−39:33:58.4(3)	0.117511188481(+4, −5)	−0.0064(+1, −2)	(+0.038, −0.089)	95	3.2	–
J2145−0750	21:45:50.4552(8)	−07:50:18.56(3)	62.2958878113( $\pm 3$ )	−0.111( $\pm 1$ )	(+2.5, −0.1)	162	3.12	PPTA, B
J2155−3118	21:55:13.64(1)	−31:18:53.8(2)	0.97087088287(+3, −2)	−1.16876(+7, −8)	(+0.25, −0.21)	61	3.08	–
J2222−0137	22:22:05.96713(1)	−01:37:15.731(5)	30.4712133291( $\pm 1$ )	−0.0535(+3, −5)	(+0.67, −0.17)	216	3.2	B
J2241−5236	22:41:42.03154(6)	−52:36:36.2491(6)	457.310149438(+9, −1)	−1.4408( $\pm 6$ )	(+0.65, −0.81)	295	3.27	PPTA, B
J2248−0101	22:48:26.884(6)	−01:01:48.0(2)	2.09541027394( $\pm 5$ )	−2.8961( $\pm 1$ )	(+0.8, −2.5)	172	2.54	–
J2324−6054	23:24:27.14(1)	−60:54:05.794(9)	0.425987202198(+1, −9)	−0.46843(+3, −4)	(+0.061, −0.12)	87	3.07	–

**Table 1** – *continued*

PSRJ	RAJ (hh:mm:ss)	DECJ (°:′:″)	$\nu$ (Hz)	$\dot{\nu}$ ( $10^{-15}$ s $^{-2}$ )	$\ddot{\nu}$ ( $10^{-24}$ s $^{-3}$ )	$N_{\text{ToA}}$	$T$ (yr)	Flags
J2330–2005	23:30:26.986(2)	–20:05:29.75(7)	0.608411174931( $\pm 4$ )	–1.71419( $\pm 1$ )	(+0.042, –0.097)	172	3.52	–
J2346–0609	23:46:50.54(1)	–06:10:01.04(4)	0.846407381972( $\pm 3$ )	–0.9728( $\pm 1$ )	(+0.04, –0.46)	236	3.23	–