Neutron Star Group A Collection of Information About Amateur Pulsar Detection Home About Pulsars Technical Topics Software Articles Links Contact **Relative Flux Density of Pulsars** The challenges of detecting pulsars are clearly shown by the following tables which show the relative flux densities (in descending order) of a number of pulsars. (from the ATNF Pulsar Catalogue) Ordered by Flux Density @ 400 MHz After the first two pulsars (B0833-45, B0329+54) the 400 MHz signal strength drops away rapidly. # NAME PSRJ PØ DM W50 W10 S400 S1400 (s) (cm^-3 pc) (ms) (mJy) (ms) (mJy) B0833-45 J0835-4510 0.089328 67.99 4.500 5000.00 1 2.100 1100.00 203.00 B0329+54 30332+5434 0.714520 26.76 6.600 31.400 1500.00 2 3 B1749-28 J1752-2806 0.562558 50.37 9.100 15.000 1100.00 18.00

2.64

56.79

2.96

35.73

8.60

14.17

94.59

3.18

73.78

151.08

158.52

71.02

71.07

34.47

147.29

160.80

4.85

0.141

3.000

9.500

4.200

12.500

14,900

7.400

5.400

31.700

14.800

9.000

0.038

4.400

58.200

29.000

8,900

131.100

1.020

4.700

20.600

8.000

29.000

22.200

14.000

8.300

41.800

32.200

17.700

0.190

9.700

119.700

18,000

52.000

153.700

550.00

550.00

400.00

393.00

350.00

314.00

303.20

303.00

296.00

257.00

251.90

242.00

240.00

230.00

206.00

197.00

190.00

149.00

14.00

84.00

21.00

80.00

30.00

12.00

36.00

15.00

32.00

9.20

42.00

13.20

14.00

23.00

16.00

80.00

Ordered by Flux Density @ 1400 MHz

30437-4715

J0534+2200

30953+0755

J1645-0317

31456-6843

J2018+2839

J2321+6024

J1932+1059

30742-2822

31136+1551

32257+5909

J1935+1616

J1939+2134

J1453-6413

30630-2834

10837-4135

30738-4042

0.005757

0.033392

0.253065

0.387690

0.263377

0.557953

2.256488

0.226518

0.166762

1.187913

0.368246

0.358738

0.001558

0.179485

1.244419

0.751624

0.374920

30437-4715

B0531+21

B0950+08

B1642-03

B1451-68

B2016+28

B2319+60

B1929+10

B0740-28

B1133+16

B2255+58

B1933+16

B1937+21

B1449-64

B0628-28

B0835-41

B0736-40

4

5

6

7

9

10

11

12

13

14

15

16

17

18

19

20

Once again, after the first several pulsars (B0833-45, B0329+54, J0437-4715) the 1400 MHz signal strength drops away quickly.

#	NAME	PSRJ	P0 (s)	DM (cm^-3 pc)	W50 (ms)	W10 (ms)	S400 (mJy)	S140 (mJy
			(\$)	(cm*-5 pc)	(((mJy)	(mJy
1	B0833-45	J0835-4510	0.089328	67.99	2.100	4.500	5000.00	1100.0
2	B0329+54	J0332+5434	0.714520	26.76	6.600	31.400	1500.00	203.0
3	J0437-4715	J0437-4715	0.005757	2.64	0.141	1.020	550.00	149.0
4	B0950+08	J0953+0755	0.253065	2.96	9.500	20.600	400.00	84.0
5	B0736-40	J0738-4042	0.374920	160.80	29.000	52.000	190.00	80.0
6	B1451-68	J1456-6843	0.263377	8.60	12.500	29.000	350.00	80.0
7	B1933+16	J1935+1616	0.358738	158.52	9.000	17.700	242.00	42.0
8	B1556-44	J1559-4438	0.257056	56.10	6.000	14.000	110.00	40.0
9	B2020+28	J2022+2854	0.343402	24.64	12.000	15.800	71.00	38.0
10	B1929+10	J1932+1059	0.226518	3.18	7.400	14.000	303.00	36.0
11	B1133+16	J1136+1551	1.187913	4.85	31.700	41.800	257.00	32.0
12	B2016+28	J2018+2839	0.557953	14.17	14.900	22.200	314.00	30.0
13	B2021+51	J2022+5154	0.529197	22.65	7.400	29.400	77.00	27.0
14	B0355+54	J0358+5413	0.156382	57.14	3.900	10.800	46.80	23.0
15	B0628-28	J0630-2834	1.244419	34.47	58.200	119.700	206.00	23.0
16	B1054-62	J1056-6258	0.422447	320.30	20.000	39.000	45.00	21.0
17	B1642-03	J1645-0317	0.387690	35.73	4.200	8.000	393.00	21.0
18	B2111+46	J2113+4644	1.014685	141.26	32.100	152.800	47.20	19.0
19	B1749-28	J1752-2806	0.562558	50.37	9.100	15.000	1100.00	18.0
20	B2154+40	J2157+4017	1.525266	70.86	38.600	114.200	105.00	17.0

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