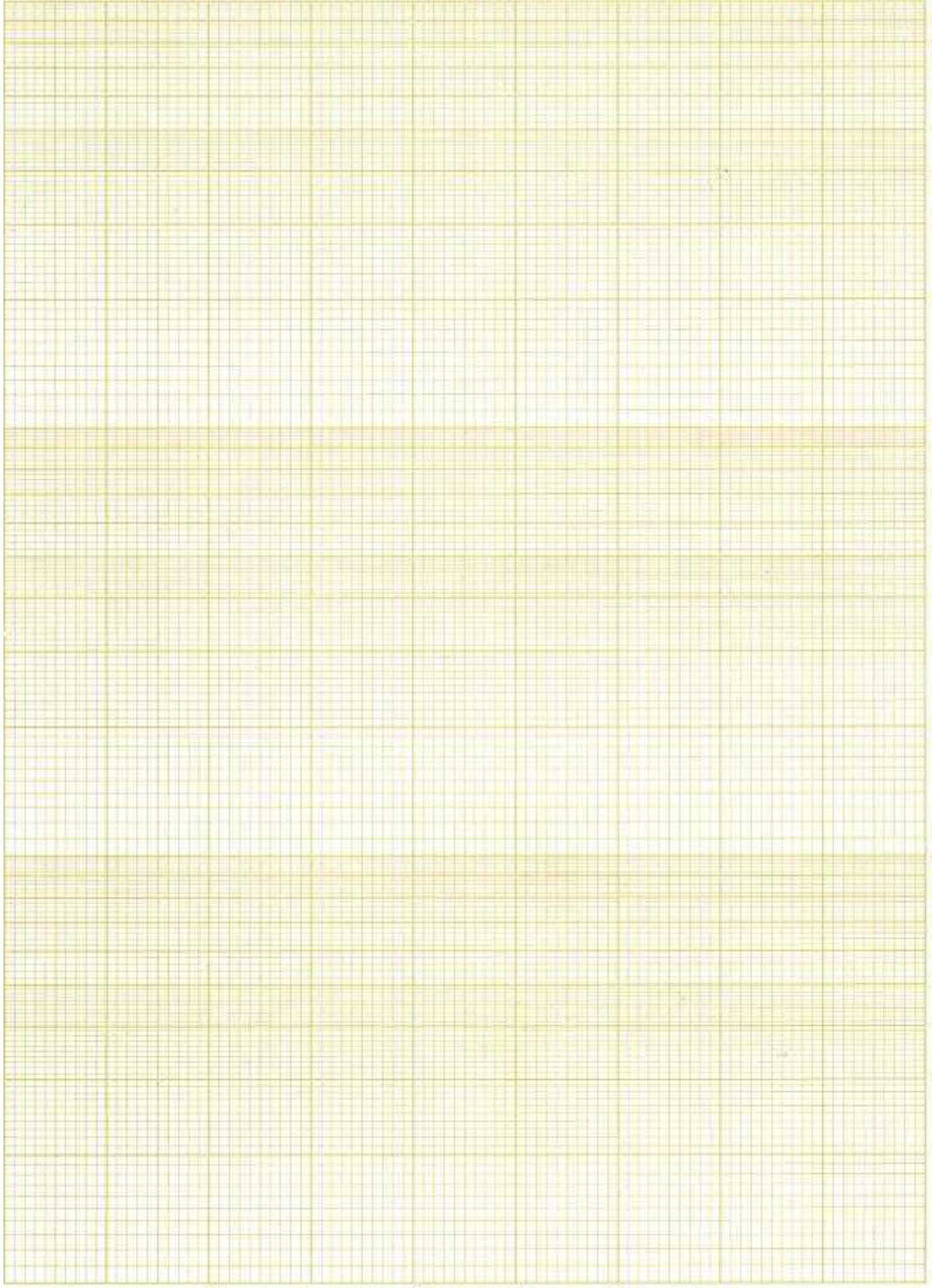


Recurrence interval for British Earthquakes

The table below gives the magnitude (ML), the rank and the recurrence interval for 39 British earthquakes. The earthquakes are listed in order of increasing magnitude, the strongest having a rank of 1 and the weakest recorded a rank of 39. The recurrence interval has been calculated. Plot the magnitude against recurrence interval. From the graph you can work how often on average an earthquake of a given magnitude will occur. The data are taken from the British Geological Survey Catalogue of British earthquakes.

12 MONTH RISK-ADJUSTED RETURN

8 7 6 5 4 3 2 1



RECURRENCE INTERVAL IN YEARS.

10

20

30

40

50

60

100

200

300

YEAR	LAT	LON	depth	ML	LOCALITY	RANK	RECUR
1952	53.14	-1.64		2.3	WINSTER	39	1.41
1964	55.90	-4.34	2.0	2.7	GLASGOW	38	1.44
1971	57.24	-4.44	5	3.0	GREAT GLEN	37	1.48
1982	51.18	-1.06	1	3.0	BASINGSTOKE	36	1.52
1987	57.97	-5.19		3.0	ULLAPOOL	35	1.57
1969	53.11	-4.43	35.0	3.0	CAENARVON	34	1.61
1993	54.21	-2.86	8.0	3.0	GRANGE OVER SANDS	33	1.66
1973	53.11	-1.15	5.0	3.1	MANSFIELD	32	1.71
1968	55.19	-2.97		3.2	LANGHOLM	31	1.77
1988	54.41	-2.98	15	3.2	AMBLESIDE	30	1.83
1941	56.28	-5.39		3.2	OBAN	29	1.89
1958	53.77	-1.61		3.3	LEEDS	28	1.96
1975	56.88	-4.92		3.4	KINLOCHLEVEN	27	2.04
1977	53.04	-1.86		3.5	DERBY	26	2.12
1992	53.13	-4.39	11.0	3.5	CAENARVON	25	2.20
1956	52.72	-1.27	4	3.6	ASHBY	24	2.29
1978	57.23	-5.45	10.0	3.6	KINTAIL	23	2.39
1951	52.80	-5.90	15	3.7	IRISH SEA	22	2.50
1981	54.15	0.30	23	3.7	FLAMBOROUGH HEAD	21	2.62
1985	57.03	-5.77	4	3.7	MALLAIG	20	2.75
1980	55.03	-2.87	5	3.8	CARLISLE	19	2.89
1972	53.70	-2.03	6	4.0	TODMORDEN	18	3.06
1966	50.09	-5.22	18	4.1	HELSTON	17	3.24
1970	54.50	-2.47	20	4.1	KIRKBY STEPHEN	16	3.44
1975	57.26	-5.41	11	4.1	KINTAIL	15	3.67
1986	56.45	-5.65	23	4.1	OBAN	14	3.93
1946	56.95	-4.80	11.0	4.1	LOCHABER	13	4.23
1954	53.92	0.43		4.2	BRIDLINGTON	12	4.58
1948	57.95	-5.21	14	4.4	ULLAPOOL	11	5.00
1950	51.10	1.90	7	4.4	DOVER STRAITS	10	5.50
1974	57.19	-5.35	22.0	4.4	KINTAIL	9	6.11
1976	53.41	-2.69	2.0	4.5	WIDNESS	8	6.87
1940	52.90	-4.40	9	4.7	NORTH WALES	7	7.86
1963	50.77	-0.97	12	4.7	CHICHESTER	6	9.17
1979	55.03	-2.82	11	4.7	CARLISLE	5	11.00
1944	53.86	-2.02	21	4.8	SKIPTON	4	13.75
1990	52.43	-3.03	14	5.1	BISHOP'S CASTLE	3	18.33
1957	52.82	-1.33	13	5.3	DERBY	2	27.50
1984	52.96	-4.38	20	5.4	LLEYN PENINSULA	1	55.00