

**CATALOGUE OF EARTHQUAKES IN GUJARAT REGION FROM EARLIEST TIME  
TO MAY 2008**

Year	Month	Date	Origin time	Lat(N)	Long(E)	Depth	Magnitude	Intensity	Location	Ref.
1668	05	06		25.00	68.00		7.8	X	Samaji, Indus	IMD
1684				21.20	72.90		3.7		Surat	USGS
1819	06	16		24.00	69.00		M <sub>w</sub> 7.8	X	Kachchh	IMD
1820	01	27		23.20	69.90		3.7		Kachchh	USGS
1820	11	13		23.20	69.90		3.7		Kachchh	USGS
1821	08	13		22.70	72.70		4.6		Kaira	USGS
1828	07	20		23.24	69.66		4.4		Kachchh	USGS
1840	11	10		23.05	72.67		4.6		Ahmedabad	USGS
1842	10	09		22.30	73.20		4.3	V	Baroda	OLD
1843	02	08		23.00	72.70		3.7	IV	Ahmedabad	OLD
1844				24.33	69.50		4.3		Lakhpat	USGS
1845	04	19		23.80	68.90		6.3	VIII	Lakhpat	OLD
1845	06	19		23.80	68.90		5.7	VII	Lakhpat	OLD
1848	04	26		24.40	72.70		5.7	VII	Mount Abu	OLD
1856	11	02		23.20	69.90		4.6		Anjar	USGS
1856	12	25		20.00	73.00		5.7	VII	Surat	CHAN
1858	12	31		21.00	75.00		4.3	V	Khandeish	OLD
1863	11	18		22.00	75.00		5.0	VI	Barwani	IMD
1864	04	29		22.30	72.80		5.7	VII	Ahmedabad	CHAN
1869	07	04		20.20	74.20		4.3	V	Nasik	OLD
1869	07	12		20.90	74.80		4.3	V	Dhulia	OLD
1871	01	03		21.20	72.90		4.3	V	Surat	OLD
1871	01	31		21.20	72.90		5.0		Surat	USGS
1872	04	14		21.75	72.15		5.0	VI	Bhavnagar	CHAN
1882	06	10		23.20	71.38		3.5		Bhachau	MALIK
1882	06	28		23.35	70.58		5.0		Lakadia	MALIK
1882	06	29		23.35	70.58		5.0		Bhachau	MALIK
1883	10	20		21.70	71.97		4.4		Bhavnagar	USGS
1886	04	14		22.47	70.10		4.4		Jamnagar	USGS
1887	11	11		22.30	70.88		4.4		Rajkot	USGS
1888	08	20		23.83	70.00		3.5		Khavda	MALIK
1890	06	01		23.83	68.83		4.0		Lakhpat	MALIK
1891	07	27		21.33	71.37		4.4		Amreli	USGS
1892	01	11		23.83	70.00		3.5		Lakhpat	MALIK
1892	07	09		23.50	70.72		3.5		Rapar	MALIK
1893	11	04		23.83	68.83		3.5		Lakhpat	MALIK
1896	02	26		23.83	69.67		3.5		Lakhpat	MALIK
1897	10	00		23.00	72.70		3.7		Ahmedabad	USGS
1898	01	30		23.16	70.08		3.5		Anjar	MALIK
1898	04	01		23.25	69.67		4.0		Bhuj	MALIK
1898	09	13		23.30	69.75		4.0		Bhuj	MALIK
1898	10			23.05	72.67		4.3		Kheda	USGS
1898	10	15		23.33	69.67		4.0		Bhuj	MALIK
1900	12	21		23.50	70.67		3.5		Rapar	MALIK

1903	01	14		24.00	70.00		5.6		Kachchh	IMD
1904	04	09		23.33	68.67		4.0		Bhuj	IMD
1904	04	28		23.50	70.16		4.0		Anjar	MALIK
1904	07	30		23.83	70.33		3.5		Khadir	MALIK
1904	11	30		24.33	69.58		3.5		Lakhpatt	MALIK
1905	07	10		23.33	69.67		3.5		Bhuj	MALIK
1906	01	11		23.83	70.33		3.5		Khadir	MALIK
1906	06	30		23.83	69.75		3.5		Khavda	MALIK
1906	08	15		24.40	72.70		4.3	V	Near Mount Abu	USGS
1907	03	12		23.83	69.75		3.5		Khavda	MALIK
1907	07	12		22.91	69.83		3.5		Mundra	MALIK
1907	10	09		23.83	69.75		3.5		Khavda	MALIK
1907	10	21		23.25	70.33		3.5		Bhachau	MALIK
1908	09	29		23.83	69.75		3.5		Khavda	MALIK
1908	10	21		23.83	69.75		3.5		Khavda	MALIK
1909	02	07		23.83	69.75		3.5		Khavda	MALIK
1909	04	09		23.25	70.33		3.5		Bhachau	MALIK
1910	03	24		23.25	69.75		3.5		Bhuj	MALIK
1910	08	01		23.83	69.67		3.5		Khavda	MALIK
1910	12	13		23.41	70.58		4.0		Lakadia	MALIK
1910	12	16		23.25	70.33		3.5		Bhachau	MALIK
1911	01	23		23.41	70.58		3.5		Lakadia	MALIK
1911	10	11		24.33	69.50		3.5		Lakhpatt	MALIK
1912	10	01		23.83	69.75		3.5		Khavda	MALIK
1912	11	07		23.83	70.33		3.5		Khadir	MALIK
1913	06	26		23.75	69.75		3.5		Khavda	MALIK
1918	06	10		23.50	70.41		3.5		Bhachau	MALIK
1919	04	21		22.00	72.00		5.7	VII	Bhavnagar	CHAN
1920	10	18		23.50	70.75		3.5		Rapar	MALIK
1920	11	13		23.33	69.58		3.5		Bhuj	MALIK
1921	02	11		25.00	70.70		4.2		Thar, Pakistan	ISC
1921	10	26		25.00	68.00		5.5		Indus-Kachchh	IMD
1921	10	27		23.83	69.67		4.0		Narayan Sarovar	MALIK
1922	02	09		23.41	70.67		3.5		Chitrod	MALIK
1922	03	13		23.41	69.37		3.5		Mandvi	MALIK
1922	03	13		22.00	71.00		4.3	V	Jhalavad	CHAN
1923	08	07		22.91	69.45		4.0		Bhuj	MALIK
1924	03	05		23.91	69.83		3.5		Khavda	MALIK
1924	10	25		23.67	68.91		3.5		Khavda	MALIK
1925	10	01		23.83	69.67		3.5		Khavda	MALIK
1925	10	13		23.33	70.28		3.5		Shikra	MALIK
1926	12	26		23.91	69.70		3.5		Khavda	MALIK
1927	11	18		23.45	69.67		3.5		Bhuj	MALIK
1930				22.40	71.80		4.3	V	Paliyad	CHAN
1930	12	30		23.91	69.45		3.5		Khavda	MALIK
1932	03	06		23.83	70.33		3.5		Khadir	MALIK
1935	01	25		23.75	70.67		3.5		Rapar	MALIK
1935	07	20		21.00	72.40		5.7		Surat	IMD

1935	07	23		23.25	69.50		3.5		Bhuj	MALIK
1938	06			22.30	71.60		5.0		Botad	TAN
1938	06	26		22.30	71.50		4.1		Botad	TAN
1938	07	12		22.40	71.80		5.5		Paliyad	IMD
1938	07	14		22.40	71.80		5.7		Paliyad	TAN
1938	07	19		22.40	71.80		5.7		Paliyad	IMD
1938	07	23		22.40	71.80		5.7	VII	Paliyad	CHAN
1940	10	31	10 03 50.00	22.50	70.40		5.0	VI	Jamuanathali,Jamnagar	CHAN
1940	11	13		23.57	70.33		4.0		Anjar	MALIK
1941	01	30		23.83	70.25		3.0		Khadir	MALIK
1950	06	14	04 24 16.00	24.00	71.20		5.3		Kachchh	CHAN
1956	07	21	15 32 26.00	23.30	70.00	35.00	M <sub>w</sub> 6.0	VIII	Kachchh	IMD
1956	07	22		23.16	70.00		3.0		Anjar	MALIK
1962	03	12		24.10	70.90		3.0		Kachchh	MALIK
1962	09	01	22 01 30.00	24.00	73.00		4.6		Palanpur	IMD
1963	07	13	19 08 40.00	24.90	70.30	35.00	5.3		Thar, Pakistan	IMD
1965	03	26	10 04 15.00	24.40	70.00	33.00	5.1		Kachchh	IMD
1966	05	27	22 14 14.40	24.46	68.69	5.00	5.0		Thar, Pakistan	ISC
1966	11	12	12 16 47.20	25.12	68.04	33.00	4.8		Kachchh	ISC
1967	01	06	11 41 34.00	21.97	74.27		4.5		Tankhala	IMD
1968				21.60	71.25		4.3	V	Amreli	GSI
1968				21.73	70.45		4.3	V	Dhoraji	GSI
1969	03	23	04 21 34.00	24.54	68.79	19.00	4.4		Kachchh	ISC
1969	10	24	11 45 55.50	24.76	72.54	31.00	5.5		Mount Abu	IMD
1970	02	13	15 05 51.40	24.60	68.61	33.00	5.2		Kachchh	USGS
1970	03	23	01 53 01.00	21.60	72.96	8.00	5.4		Bharuch	USGS
1970	08	09		21.70	73.00		3.5		Bharuch	USGS
1970	08	30		21.70	73.00		4.1		Bharuch	USGS
1970	09	10		21.60	72.70		3.4		Bharuch	USGS
1971	05	14	17 14 40.90	25.12	68.11	57.00	4.5		Thar, Pakistan	USGS
1971	06	18		21.70	73.00		3.4		Bharuch	IMD
1973	06	05	01 19 30.30	25.09	68.07	33.00	4.8		Thar, Pakistan	USGS
1974	10	20		21.70	74.20		4.6		Narmada	USGS
1975				22.10	71.20		4.3	V	Jasdan	GSI
1975	09	19	16 49 52.20	24.69	71.03	33.00	3.7		Kachchh	USGS
1975	09	25		20.80	74.20		4.2		Gujarat	USGS
1976	06	04	00 43 41.44	24.51	68.45	18.00	5.1		Allah Band, Pakistan	ISC
1977	09	26	19 48 48.30	25.38	68.24	33.00	4.5		Kachchh	ISC
1978	04	10	09 10 03.00	21.84	72.90		3.0		Amod	IMD
1978	11	25	10 09 40.00	21.97	72.91		2.8		Amod	IMD
1979	02	22	22 11 00.00	21.33	72.15		3.3		Bhavnagar	GERI
1979	06	09	22 43 19.00	21.83	73.85		2.6		Rajpipla	GERI
1979	08	24	01 13 54.00	22.11	72.43		3.1		Khambhat	GERI
1979	09	05	10 08 00.00	21.33	72.12		3.6		Bhavnagar	GERI
1979	09	22	22 48 53.00	21.75	72.15		3.3		Bhavnagar	GERI
1979	12	10	22 19 35.00	21.90	72.90		3.2		Amod	GERI
1980	01	06	00 42 37.00	22.23	71.78		3.2		Botad	GERI
1980	03	18	18 22 08.00	21.81	73.03		2.9		Nabipur	GERI

1980	06	04	11 16 00.00	21.68	73.21		2.6		Nartrang	GERI
1980	06	04	11 17 00.00	21.68	73.21		3.1		Nartrang	GERI
1980	07	21	04 08 00.00	22.87	72.14		3.1		Nartrang	GERI
1980	08	27	06 20 00.00	22.82	72.82		2.7		Chandraga	GERI
1980	10	20	11 40 00.00	21.96	72.95		2.6		Kevadia	GERI
1981	04	26	18 12 20.61	24.12	69.51	33.00	4.3		Bhuj	ISC
1982	01	31	16 48 25.31	24.21	69.84	33.00	4.8		Kachchh	ISC
1982	03	10	03 45 00.00	21.38	73.00		3.1		Bharuch	GERI
1982	04	09	09 00 00.00	22.07	72.19		2.9		Khadi	GERI
1982	05	10	01 00 00.00	21.90	72.27		3.2		Bhavnagar	GERI
1982	06	24	01 27 00.00	22.00	72.88		3.6		Amod	GERI
1982	06	26	18 48 00.00	22.25	71.82		3.1		Dhandhuka	GERI
1982	07	02	16 30 00.00	21.86	72.04		3.5		Bhavnagar	GERI
1982	07	18	15 46 17.65	23.40	70.66	33.00	4.8		Bhuj	ISC
1984	09	13	04 48 50.24	24.95	70.46	33.00	4.2		Allah Band, Pakistan	ISC
1985	04	07	21 10 11.12	24.36	69.74	33.00	5.0		Kachchh	ISC
1985	04	27	04 59 50.50	20.66	73.21		4.6		Dharampur	GERI
1985	09	03		21.03	70.88		4.3		Visavadar,Junagadh	GERI
1986	02	26	12 47 55.46	20.48	73.72	33.00	4.3		Gujarat	USGS
1986	09	16		20.60	71.40		3.8		Rajula	GERI
1986	11	15	00 25 07.69	24.45	73.57	22.10	4.1		Near Mount Abu	ISC
1987	02	10	22 02 57.86	24.10	70.39	10.00	3.9		Kachchh	ISC
1987	04	10		24.55	70.12	10.00	2.0		Kachchh	IMD
1987	12	31		21.71	74.38		3.5		Narmada	GERI
1988	07	17		25.16	70.00	33.00	2.0		Kachchh	IMD
1989	03	21	00 57 05.80	24.27	68.96	33.00	4.0		Bhuj	ISC
1989	06	21	15 35 38.50	20.09	72.91	33.00	4.1		Valsad	ISC
1989	12	10	11 58 13.14	24.81	70.88	33.00	4.7		Kachchh	ISC
1991	01	20		23.13	69.83	35.00	2.0		Kachchh	IMD
1991	01	20	19 44 58.89	23.40	69.71	33.00	4.9		Bhuj	USGS
1991	01	30	10 44 30.50	20.55	73.15		4.6		Anklach	GERI
1991	09	10	06 54 4.68	24.16	68.68	35.50	4.7		Kachchh	ISC
1991	09	10	07 20 05.06	24.28	68.80	25.70	4.7		Kachchh	ISC
1992	05	04	11 20 41.32	24.52	70.13	33.00	3.4		Allah Band, Pakistan	ISC
1993	02	09	20 51 47.11	24.62	68.93	36.30	4.3		Allah Band, Pakistan	ISC
1993	08	09		20.60	71.40		3.1		Rajula	GERI
1993	08	24	23 18 90.00	20.60	71.40	29.00	5.0		Rajula	IMD
1993	12	31	13 32 04.31	21.12	72.72	35.20	4.1		Rajula	ISC
1996	02	17		23.33	69.67	33.00	4.5		Bhuj	IMD
1996	08	05	22 15 35.90	22.83	68.43	22.90	3.8		Bhuj	ISC
1996	11	17	18 12 26.97	21.40	73.06	10.00	4.0		Gujarat	ISC
1998	07	19		22.42	70.86		4.4		Rajkot	IMD
1998	09	21	06 23 48.3	21.81	71.93		3.0		Bhavnagar	GERI
1998	10	08	15 01 15.84	24.45	69.80	33.00	3.7		Bhuj	ISC
1998	11	28	16 59 44.70	21.94	71.06		3.2		Gondal	GERI
1999	09	21	11 00 00.00	21.70	72.10		2.5		Bhavnagar	GERI
2000	08	10	13 30 14.70	21.78	72.31		3.6		Bhavnagar	GERI
2000	08	13	13 28 21.26	21.02	70.99	7.00	4.6		Tulsi Shyam,Junagadh	ISC

2000	09	12	00 53 25.07	21.72	72.16	10.00	4.2		Bhavnagar	IMD
2000	12	24	11 22 02.23	24.01	70.09	43.40	4.7		Bhuj	ISC
2001	01	26	03 16 40.26	23.44	70.31	16.00	M <sub>w</sub> 7.7	X	Kachchh	ISC
2001				21.02	70.88		2.5		Tulsi Shyam, Junagadh	GERI
2003	01	13		22.30	70.93		2.0		Rajkot	GERI
2003	01	29		21.46	70.51		3.1		Haripur, Junagadh	IMD
2003	08			22.20	69.92		2.5		LalpurTq, Jamnagar	GERI
2004				21.00	70.50		3.0		Talala Tq, Junagadh	GERI
2006	02	03	00 54 23.46	23.92	70.44	28.7	M <sub>w</sub> 5.0 (m <sub>b</sub> 4.5 USGS)		Gedi, Rapar	NGRI
2006	03	07	18 20 46.28	23.79	70.73	3.0	M <sub>w</sub> 5.7 (M <sub>w</sub> 5.5 USGS)		Gedi, Rapar	NGRI
2006	04	06	12 02 55.25	23.78	70.74	3.1	M <sub>w</sub> 4.8 (m <sub>b</sub> 4.9 USGS)		Gedi, Rapar	NGRI
2006	04	06	17 59 16.46	23.34	70.39	29.3	M <sub>w</sub> 5.6 (m <sub>b</sub> 5.5 USGS)		Lakadia	NGRI
2006	04	10	22 05 46.00	23.51	70.06	4.9	M <sub>w</sub> 4.9 (m <sub>b</sub> 4.9 USGS)		Kachchh	NGRI
2006	09	30	00 16 00.80	22.31	70.21	10.10	M <sub>w</sub> 4.0	V	Khankotda, Jamnagar	ISR
2007	07	16	21 21 22.0	22.49	71.29	17.80	M <sub>w</sub> 3.9		Paliyad	ISR
2007	09	02	16 38 47.80	22.33	70.22	10.10	M <sub>w</sub> 3.2		Khankotda, Jamnagar	ISR
2007	10	09	03 49 31.0	21.08	70.73	10.80	M <sub>w</sub> 3.1		Ankolwadi, Junagadh	ISR
2007	11	06	00 27 28.8	21.12	70.51	8.50	M <sub>w</sub> 4.8 (m <sub>b</sub> 4.9 USGS)		Hirenvel, Junagadh	ISR
2007	11	06	09 38 04.45	21.16	70.54	4.50	M <sub>w</sub> 5.0 (m <sub>b</sub> 5.0 USGS)		Haripur, Junagadh	ISR
2007	11	11	13 03 04.00	21.93	69.82	10.00	M <sub>w</sub> 2.9		Verad, Bhanwad	ISR
2008	01	25	23 36 55.06	21.79	71.76	35.1	M <sub>w</sub> 2.8		Bhavnagar	ISR
2008	03	09	11 03 44.7	23.39	70.33	29.90	M <sub>w</sub> 4.9 (m <sub>b</sub> 4.5 USGS)		Chobari, Kachchh	ISR
2008	05	20	08 57 27.3	21.16	73.05	7.40	M <sub>w</sub> 3.2		Surat	ISR

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MALIK- Malik et al., 1999, Modern and historic Seismicity of Kachchh Peninsula, western India. *Jour. Geol. Soc.*, **54**, pp. 545-550.

IMD- India Meteorological Department, New Delhi, India

GSI- Geological Survey of India, Seismotectonic atlas of India and its environs, 2000

USGS- United States Geological Survey (USGS), National Earthquake Information Center

ISC- International Seismological Center, U.K.

GERI- Gujarat Engineering Research Institute, Gujarat, India

ISR- Institute of Seismological Research (ISR), Gandhinagar, Gujarat

