

A note on earthquake of magnitude 5.1 Mb of 5th April, 2017 in Andaman Sea.

A moderate earthquake of magnitude 5.1Mb occurred at a depth of 28.6km in Andaman Sea on 5thApril, 2017 at 16hrs:44min: 47.4sec. (UTC) and at 22hrs: 14min: 47.4sec.(IST).The epicentre of the earthquake has been located at Latitude 15.137^oN and Longitude 92.258^oE using data recorded at four Seismo-geodetic observatories of GSI located at Agartala, Itanagar, Nagpur and Jammu. The epicentre of the earthquake lies between 90^oE Ridge and Andaman trench and it is shown on the tectonic map (Fig.1).The waveform of the event with location parameters are presented in Fig. 2 (a& b) respectively.

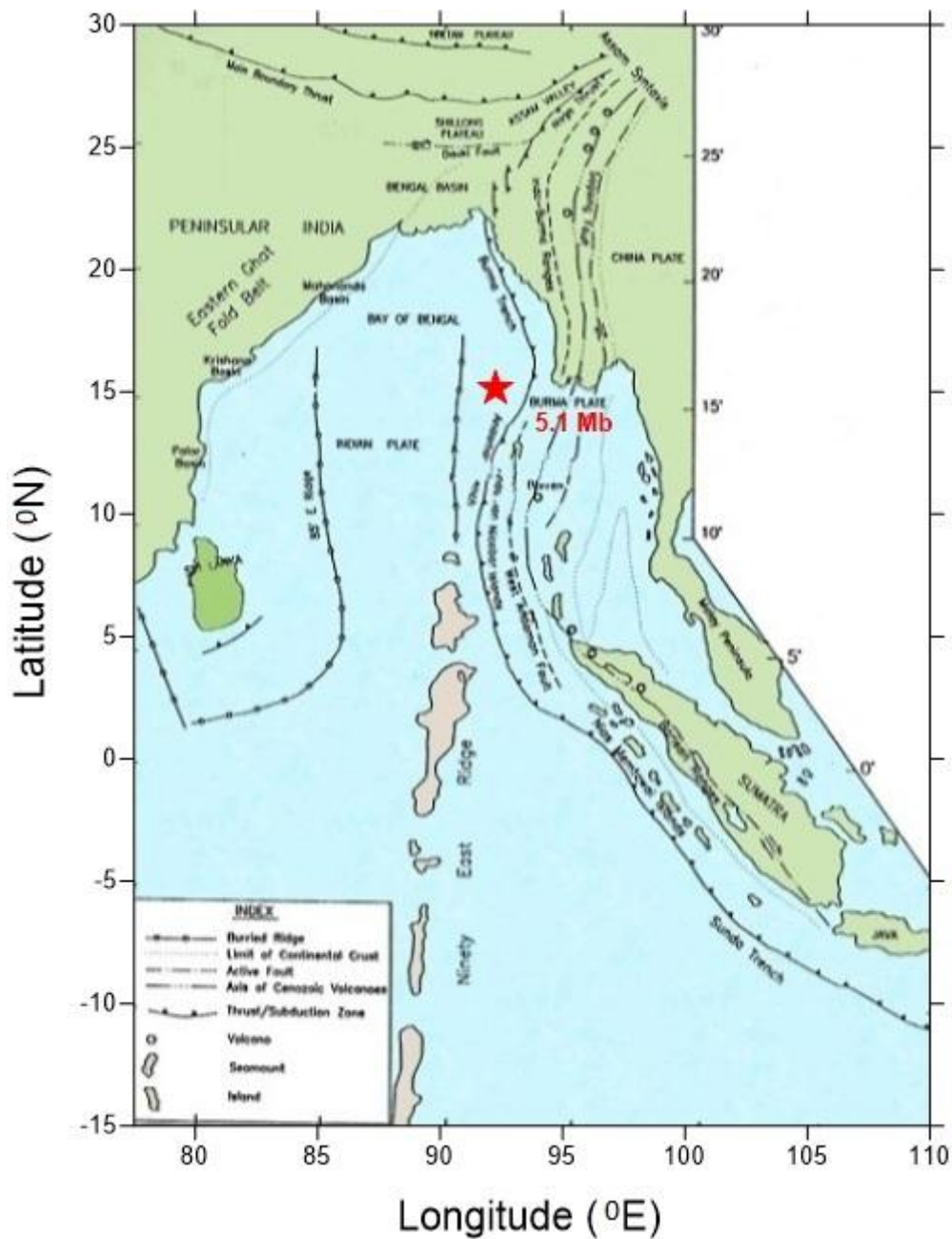


Fig.1 Tectonic Map (after Ghosh, 1997; Verma et al. 1978) showing the location of the epicentre of the earthquake (Red star).

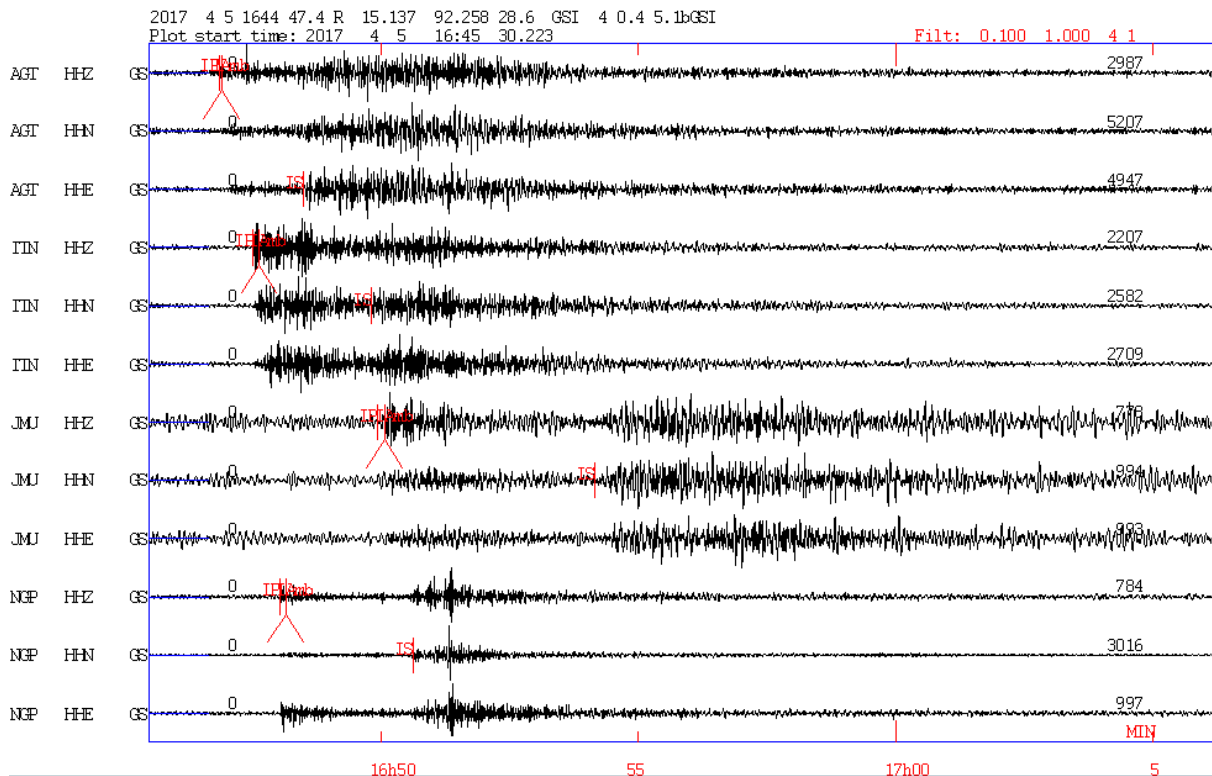


Fig. 2(a) Waveform of the earthquake.

date	hrmn	sec	lat	long	depth	no	m	rms	damp	erln	erlt	erdp	
17 4 5	1644	47.37	15 8.24N	92 15.5E	28.6	8	3	0.39	0.000	7.8	8.6	10.2	
stn	dist	azm	ain	w	phas	calcp	h	tsec	t-obs	t-cal	res	wt	di
AGT	971	354.2	56.0	0	S	Sn	1648	30.0	222.64	222.57	0.06	1.00	*12
AGT	971	354.2	53.3	0	P	Pn	1646	51.2	123.87	124.26	-0.39	1.00	*4
AGT	971	354.2	0	0	I Amb		1646	53.9	126.5				
ITN	1330	5.8	56.6	0	P	PN6	1647	30.9	163.50	162.98	0.52	0.99	*9
ITN	1330	5.8	0	0	I Amb		1647	37.5	170.2				
ITN	1330	5.8	55.6	0	S	Sn	1649	49.0	301.61	301.75	-0.14	1.00	*11
NGP	1548	297.5	52.9	0	P	Pn	1648	1.9	194.49	195.13	-0.65	0.99	*9
NGP	1548	297.5	0	0	I Amb		1648	8.7	201.4				
NGP	1548	297.5	55.2	0	S	Sn	1650	37.2	349.81	349.44	0.37	1.00	*22
JMU	2622	321.0	33.2	0	S	S	1654	8.8	561.40	561.59	-0.19	1.00	*23
JMU	2622	321.0	32.3	0	P	P	1649	56.2	308.81	308.38	0.43	0.99	*10
JMU	2622	321.0	0	0	I Amb		1650	3.8	316.5				
NGP	HZ	dist:	1548.0	amp:	136.6	T:	2.1	mb =	5.3				
JMU	HZ	dist:	2622.0	amp:	33.6	T:	0.8	mb =	4.9				
2017	4 5	1644 47.4	R	15.137	92.258	28.6	GSI	4	0.4	5.1bGSI			

Fig. 2(b) Location parameters of the earthquake.