



# 2004

## SUMMARY OF EARTHQUAKES

*With surface wave or moment magnitude ( $M_w$ ) greater than or equal to 6.5 and a depth no greater than 100 km, or an event for which a Tsunami Information Bulletin (TIB) or Regional Watch Warning (RWW) was issued. Epicenter,  $M_s$ , and  $M_w$  from USGS National Earthquake Information Center (NEIC, G);  $M_w$  and centroid depth from Harvard (H);  $M_w$  from PTWC at action time.*

DATE	TIME (UTC)	LOCATION	LAT	LONG	DEPTH (km)	$M_w$	$M_s$	PTWC ACTION	ACTION TIME (UTC)	Tsunami ? Damaging ?
Jan 3	16:23	SE of Loyalty Islands Region	22.231 S	169.636 E	16	7.1 (H) 7.0 (P) 6.8 (G)	7.1	TIB	16:41	NO NO
Jan 25	11:43	Tonga Islands	16.840 S	174.168 W	145	6.7 (G,H,P)	N/A	TIB	12:01	NO NO
Jan 28	22:16	Seram Indonesia	3.131 S	127.420 E	20	6.7 (G) 6.6 (H,P)	6.5	TIB	22:35	NO NO
Feb 5	21:05	Irian Jaya Region, Indonesia	3.579 S	135.489 E	19	7.0 (H) 6.9 (P) 6.8 (G)	7.1	TIB	21:22	NO NO
Feb 7	2:43	Irian Jaya Region, Indonesia	3.942 S	134.987 E	15	7.3 (G,H) 7.4 (P)	7.5	TIB	02:59	NO NO
Feb 8	8:59	Irian Jaya Region, Indonesia	3.679 S	135.316 E	15	6.5 (G) 6.7 (H,P)	6.9	TIB	09:15	NO NO
May 3	04:37	Near Coast of Central Chile	37.695 S	73.406 W	21	6.8 (P) 6.6 (G, H)	6.5	TIB	04:54	NO NO
June 10	15:20	Kamchatka Peninsula, Russia	55.682 N	160.003 E	188	6.9 (G,H,P)	6.8	TIB	15:35	NO NO
June 28	09:50	Queen Charlotte Islands Region	54.800 N	134.250 W	20	7.0 (P) 6.8 (G,H)	6.8	TIB	10:00	NO NO
July 15	04:27	Fiji Region	17.656 S	178.750 W	566	7.1 (H) 7.0 (G,P)	N/A	TIB	04:43	NO NO
July 25	14:35	Southern Sumatera, Indonesia	2.427 S	103.981 E	582	7.3 (G,H) 7.1 (P)	N/A	TIB	14:52	NO NO

## 2004 SUMMARY OF EARTHQUAKES, *continued*

DATE	TIME (UTC)	LOCATION	LAT	LONG	DEPTH (km)	M <sub>w</sub>	M <sub>s</sub>	PTWC ACTION	ACTION TIME (UTC)	Tsunami ? Damaging ?
July 28	03:56	Irian Jaya Region, Indonesia	0.443 S	133.091 E	13	6.6 (P) 6.5 (H) 6.4 (G)	6.3	TIB	04:12	NO NO
Sept 5	10:07	Near S. Coast of Honshu	33.070N	136.618E	14	7.4 (P) 7.2 (G) 7.0 (H)	7.0	TIB	10:19	YES NO
Sept 5	14:57	Near S. Coast of Honshu	33.184	137.071E	10	7.4 (G,H) 7.2 (P)	7.1	TIB	15:16	YES NO
Sept 6	23:30	Near S. Coast of Honshu	33.205N	137.227E	10	6.7 (G) 6.6 (P) 6.5 (H)	6.3	TIB	23:44	NO NO
Oct 8	8:28	Solomon Islands	10.980S	162.141E	36	7.1 (P) 6.8 (G,H)	6.9	TIB	08:45	NO NO
Oct 8	14:36	Mindoro, Philippines	13.913 N	120.573 E	105	6.6 (P) 6.5 (H) 6.4 (G)	N/A	TIB	14:57	NO NO
Oct 9	21:27	Near Coast of Nicaragua	11.424 N	86.655 W	35	7.3 (P) 6.9 (G) 6.8 (H)	7.0	TIB	21:38	NO NO
Oct 15	4:09	Taiwan Region	49.305 N	128.781 W	94	6.7 (H, P) 6.6 (G)	6.4	TIB	10:11	NO NO
Nov 2	10:02	Vancouver Island Region	49.305 N	128.781 W	10	6.6 (G) 6.7 (H, P)	6.4	TIB	10:11	YES NO
Nov 9	23:58	Solomon Islands	11.150S	163.706 E	13	6.9 (G,H) 7.0 (P)	6.7	TIB	00:11 (10 Nov)	NO NO
Nov 11	17:35	Solomon Islands	11.136 S	162.193 E	10	6.6 (H) 6.7 (G,P)	6.6	TIB	18:17	NO NO
Nov 11	21:27	Timor Region, Kepulauan Alor, Indonesia	8.149 S	124.870 E	10	7.4 (G,P) 7.5 (H)	7.3	TIB	21:41	NO NO
Nov 15	9:06	Off Near W. Coast of Colombia	4.695 N	77.502 W	15	7.1 (G,H) 7.2 (P)	7.1	TIB	9:20	NO NO

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DATE	TIME (UTC)	LOCATION	LAT	LONG	DEPTH (km)	M <sub>w</sub>	M <sub>s</sub>	PTWC ACTION	ACTION TIME (UTC)	Tsunami ? Damag-ing ?
Nov 22	20:26	Off W.Coast of South Island New Zealand	46.656 S	164.707 E	10	7.1 (G, H) 7.2 (P)	7.1	TIB	20:40	NO NO
Nov 26	20:26	Irian Jaya Region, Papua Indonesia	3.613 S	135.387 E	10	7.0 (G) 7.1 (H, P)	7.2	TIB	2:39	NO NO
Nov 28	18:32	Hokkaido, Japan	42.995 N	145.114 E	39	7.0 (G, H, P)	6.7	TIB	18:44	YES NO
Dec 6	14:15	Hokkaido, Japan	42.907 N	145.200E	35	6.8 (G, H, P)	6.4	TIB	14:27	NO NO
Dec 23	14:59	North of MacQuarie Island	50.145 S	160.365 E	10	7.9 (P) 8.0 (G) 8.1 (H)	N/A	TIB	15:19	YES NO
Dec 26	0:59	Off West Coast of Northern Sumatra	3.308 N	95.874 E	30	8.2 (G) 9.0 (H)	8.8	TIB 1, 2, 3	1:14, 2:04, 15:37 (Dec 27)	YES YES
Dec 26	4:21	Nicobar Islands	6.885 N	145.200 E	40	6.8 (P) 7.1 (G,H)	7.5	TIB	14:27	YES YES
Dec 26	9:20	Nicobar Islands	8.886 N	92.357 E	9	6.6 (H)	6.6			NO YES