

"Evaluation of Wells and Coppersmith (1994) Earthquake and Fault Relationships in the New Zealand Context" by Mark Stirling, David Rhoades, Kelvin Berryman (IGNS), EQC funded report 97/249- December 1998.

"Ash Predictions, How Successful Were they?" by AW Hurst and BJ Scott (IGNS), EQS funded report 97/268- October 1998.

These reports may be borrowed by applying to the NZSEE Administrative Secretary, PO Box 48 086, Silverstream, Upper Hutt.

WORLD EARTHQUAKES OF MAGNITUDE 6.0 AND GREATER.

April 18- August 2000.

Data from the U.S. National Information Service.

Date	Lat.	Long.	Depth (km)	Mag.	Location
APR 18	20.569S	176.509W	220	5.9	Fiji Islands Region.
APR 21	51.419N	178.169W	33	6.0	Andreanof Islands, Aleutian Is. ML 6.2 (PMR). Felt strongly on Adak.
APR 23	28.334S	62.942W	607	7.0	Santiago Del Estero Prov., Arg. Felt in the La Rioja and Buenos Aires areas.
APR 23	28.366S	62.924W	610	6.1	Santiago Del Estero Prov., Arg.
MAY 04	1.146S	123.597E	33	7.6	Sulawesi, Indonesia. At least 46 people killed, 254 injured, extensive damage and power outages occurred in the Luwuk area, Sulawesi and on nearby islands. Eighty percent of buildings were damaged or destroyed on Banggai. Damage also occurred on Peleng. Dozens of houses damaged (VII) and a local market destroyed by fire at Luwuk. Much of the damage east of Luwuk
MAY 04	17.803S	178.568W	515	6.5	Fiji Islands Region.
MAY 06	11.274S	165.349E	33	6.3	Santa Cruz Islands.
MAY 08	4.485S	150.009E	510	6.1	New Britain Region, P.N.G.
MAY 12	22.988S	66.743W	244	6.2	Jujuy Province, Argentina. Felt (VI) at Antofagasta, Calama, Chaquicamata, Copiapo, Mejillones and Sierra Gorda; (V) at caldera, Chanaral, Diego de Almagro, Iquique, Tierra Amarilla and Tocopilla; (IV) Arica, Portillos and Pozo Almante; (III) at Parinacota, Chile.
MAY 12	35.960N	70.657E	108	6.3	Hindu Kush Region. Felt strongly in Badakhshan Province; also felt in the Kabul area, Afghanistan; felt in the Peshawar area, Pakistan and Dushanbe area, Tajikistan. Also felt in the Tashkent area, Uzbekistan.
MAY 14	4.316S	123.211E	33	6.2	Banda Sea.
MAY 21	71.224N	8.245W	10	6.0	Jan Mayen Island Region.
MAY 26	11.322N	139.103E	33	6.0	W. Caroline Islands, Micronesia.
JUN 02	44.546N	129.996W	10	6.2	Off Coast Of Oregon.
JUN 03	35.537N	140.396E	70	6.1	Near East Coast Of Honshu, Japan. One person injured in Chiba Prefecture. Felt in the Tokyo area. Recorded (5L JMA) in northern Chiba and (4
					and on Peleng was caused by a local tsunami with estimated wave heights up to 6 meters. Felt (V) at Gorontalo and Palu; (IV) at Manado and Tolitoli, Sulawesi. Felt (IV) at Balikpapan, Borneo.

- JUN 16 33.926S 70.100W 120 6.4 **Chile-Argentina Border Region.**
Felt (VI) at Rancagua, San Fernando, and Valparaiso; (V) Curico, Parral, Quillota, Quilpue, San Antonio, Santo Domingo, Santiago, and Talca; (IV) Concepcion, Los Andes, Petorca and San Felipe; (III) at Illapel, La Serena and Ovalle, Chile. Felt (IV) at Mendoza and San Juan, Argentina.
- JUN 17 64.029N 20.396W 10 6.5 **Iceland.**
One person injured in the Vestmannaeyjar Islands. At least 30 houses destroyed or damaged in the Hella area. Landslides-rockslides blocked some roads and utilities disrupted in the epicentral area. Felt in much of southern Iceland.
- JUN 18 13.962S 97.473E 10 7.8 **South Indian Ocean.**
Felt strongly in the Cocos Islands. Felt (II) at Bengkulu, Jakarta and Padangpanjang, Indonesia. Local tsunami in the Cocos Islands.
- JUN 20 14.171S 97.634E 10 5.8 **South Indian Ocean.**
- JUN 21 63.971N 20.699W 10 6.5 **Iceland.**
At least 12 houses destroyed, some damaged in the Grimsnes area. Water lines broken in the Eyrarbakki-Selfoss-Stokkseyvi area. Felt in much of southern Iceland including Reykjavik.
- JUN 21 14.170N 144.840E 111 6.0 **Mariana Islands.**
Felt in the areas of Agana, Andersen AFB and Yigo, Guam. Also felt on Saipan.
- JUN 23 1.356N 126.274E 62 6.1 **Northern Molucca Sea.**
- JUN 25 31.311N 131.152E 10 6.2 **Kyushu, Japan.**
Recorded (4 JMA) in the Kanoya area and (3 JMA) in southern Miyazaki and other parts of Kagoshima Prefectures, Kyushu. Also recorded (3 JMA) on Tanegashima.
- JUL 01 34.211N 139.134E 10 6.2 **Near S. Coast Of Honshu, Japan.**
One person killed, several injured and damage to buildings, landslides and power outages on Kozu-shima. Recorded (6L JMA) on Kozu-shima, (5L JMA) on Nii-jima, (4 JMA) on Miyake-jima; (3 JMA) on Oshima and (2 JMA) on Hachijo-jima. Also recorded (4 JMA) at Kawazu; (3 JMA) at Tateyama and Yokohama; (2 JMA) at Tokyo and many other parts of central Honshu.
- JUL 07 51.464N 179.994E 69 6.4 **Rat Islands, Aleutian Islands.**
Felt (V) on Adak.
- JUL 08 34.683N 139.274E 10 5.9 **Near S. Coast Of Honshu, Japan.**
Recorded (5L JMA) on Kozu-shima; (3 JMA) on Miyake-jima; (2 JMA) in southern Chiba and eastern Shizuoka Prefectures; (1 JMA) as far north as Niigata Prefecture, Honshu.
- JUL 10 46.860N 145.403E 358 6.2 **Sea Of Okhotsk**
Recorded (1 JMA) in the Kushiro area, Hokkaido, Japan.
- JUL 11 57.508N 154.335W 53 6.7 **Kodiak Island Region, Alaska.**
Some minor damage on Kodiak. Felt throughout southern Alaska and as far north as Fairbanks.

- JUL 15 34.364N 139.254E 10 6.1 **Near S. Coast Of Honshu, Japan.**
At least eight people injured, 20 homes damaged and landslides on Nii-jima. Recorded (6L JMA) on Nii-jima, (5L JMA) on O-shima, (4 JMA) on Koze-shima, (3 JMA) on Miyake-jima and (2 JMA) on Hachijo-jima. Also recorded (4 JMA) at Tateyama and Yokohama; (3 JMA) at Ito, Sagamihara, Shimoda, Suwa, Tokyo and Yokosuka.
- JUL 16 20.288N 121.995E 33 6.4 **Philippine Islands Region.**
At least seven people injured; a church bell tower and some houses destroyed (VII RF); utilities disrupted and landslides blocked a highway on Basco.
- JUL 16 7.746S 150.903E 33 6.6 **New Britain Region, P.N.G.**
- JUL 16 12.309S 166.433E 33 6.1 **Santa Cruz Islands.**
- JUL 17 36.239N 70.986E 142 6.3 **Hindu Kush Region, Afghanistan.**
Two people killed at Peshawar, Pakistan. Felt strongly in northern Pakistan. Some minor damage in the Amritsar-Srinagar area, India. Also felt strongly in the Kabul area, Afghanistan.
- JUL 20 36.625N 140.961E 496.0 **Near East Coast Of Honshu, Japan.**
Felt in the Tokyo area. Recorded (5L JMA) at Hitachi-ota, Kasama, Mito and Takahagi; (4 JMA) at Koriyama, Imaichi, Nasu and Shirakawa.
- JUL 21 9.575N 85.300W 33 6.4 **Off Coast Of Costa Rica.**
Felt in the San Jose area.
- JUL 30 33.952N 139.435E 10 6.5 **Southeast Of Honshu, Japan.**
One person injured, road damage and landslides on Miyake-jima. Felt in the Tokyo area. Recorded (6L JMA) on Miyake-jima; (5L JMA) on Koze-shima and Nii-jima; (3 JMA) on Hachijo-jima and O-shima. Also recorded (3 JMA) in southern Chiba, eastern Kanagawa and eastern Shizuoka Prefectures. Recorded (1 JMA) as far as Hyogo and Wakayama Prefectures.
- JUL 31 16.721S 174.523E 33 6.1 **Fiji Islands Region.**
- JUL 31 29.285S 176.336W 33 5.9 **Kermadec Islands Region.**
- AUG 03 12.047S 166.464E 33 6.6 **Santa Cruz Islands.**
- AUG 04 48.753N 142.293E 10 6.8 **Sakhalin Island, Russia.**
At least eight people injured, 19,100 people left homeless, 1,390 buildings damaged and a landslide destroyed roads and power lines in the Uglegorsk-Makarov area. Estimated 920,000 US dollars damage. Recorded (1 JMA) in the Wakkanai area, Hokkaido and on Rishiri-to.
- AUG 06 28.829N 139.497E 394 7.3 **Bonin Islands, Japan Region.**
Recorded (3 JMA) on Hachijo-jima and in southern Chiba, northeastern Fukushima and eastern Kanagawa Prefectures, Honshu. Recorded (1 JMA) as far as southern Aomori Prefecture, Honshu.
- AUG 07 6.968S 123.468E 649 6.5 **Banda Sea.**
- AUG 09 15.693S 167.980E 33 6.3 **Vanuatu Islands.**

AUG 09	18.353N	102.341W	33	6.5	Michoacan, Mexico. One person injured in the Playa Azul area. Felt in the states of Colima, Guanajuato, Guerrero, Jualisco, Morelos, Michoacan, Oaxaca, and Puebla. Also felt at Mexico City.	MAY 04	35.39S	178.41E	12	5.2	261 km north-north-east of White Island.
AUG 09	16.889S	174.363E	33	6.4	Fiji Islands Region.	MAY 04	35.33S	178.46E	33	4.7	269 km north-north-east of White Island.
AUG 12	3.008S	136.117E	33	6.0	Irian Jaya, Indonesia.	MAY 07	40.41S	177.25E	33	4.0	74 km south-east of Waipukurau.
AUG 14	9.356S	153.816E	10	6.0	D'entrecasteaux Islands Region.	MAY 08	31.00S	179.90E	300	6.0	285 km south-west of Raoul Island. Felt at Whakatane and Wellington.
AUG 15	31.411S	179.708E	358	6.6	Kermadec Islands Region. Felt widely on the North Island, New Zealand from Whakatane to Wellington.	MAY 12	36.67S	177.27E	12	4.0	94 km north of White Island.
AUG 19	43.803N	147.173E	63	6.0	Kuril Islands.	MAY 13	40.20S	174.19E	118	4.5	80 km west of Wanganui. Felt Marton and Raumati.
AUG 21	53.028S	45.999W	33	6.1	South Atlantic Ocean.	MAY 14	36.73S	177.30E	25	4.7	89 km north of White Island.
AUG 24	6.045S	102.749E	33	5.8	Southwest Of Sumatera, Indonesia.	MAY 15	36.54S	177.48E	12	4.2	111 km north-north-east of White Island.
AUG 28	4.018S	127.515E	16	6.8	Banda Sea. Felt strongly on Ambon, Indonesia.	MAY 16	40.03S	174.84E	114	5.5	24 km west-south-west of Wanganui. Felt from Taranaki to Christchurch.
AUG 28	3.882S	127.511E	10	6.1	Seram, Indonesia. Felt strongly on Ambon, Indonesia.	MAY 17	37.97S	176.65E	144	5.4	13 km north-north-west of Kawerau.
AUG 28	4.142S	127.253E	33	6.5	Banda Sea.	MAY 18	41.22S	174.26E	45	3.7	20 km north-east of Picton. Felt Wellington.
SIGNIFICANT NEW ZEALAND EARTHQUAKES.						MAY 20	38.60S	175.88E	5	5.0	20 km north-west of Taupo. Felt Taupo.
May – August 2000						MAY 22	41.19S	173.65E	78	4.1	30 km east of Nelson. Felt Marlborough and Kapiti coast.
MAY 01	40.30S	176.43E	48	4.1	30 km east-south-east of Dannevirke. Felt Dannevirke and district.	MAY 23	46.70S	165.63E	12	4.0	170 km west-south-west of Tuatapere.
MAY 02	40.81S	176.84E	33	4.1	54 km east of Castlepoint.	MAY 23	44.86S	167.00E	5	4.4	75 km west-south-west of Milford Sound.
MAY 03	40.09S	174.93E	25	3.8	20 km south-south-west of Wanganui. Felt Marton and Tawa.	MAY 26	37.17S	177.32E	5	4.0	40 km north-north-east of White Island.
						MAY 30	42.97S	176.42E	33	4.0	Approx. 200 km east of Cheviot.
						MAY 31	46.37S	169.80E	5	3.5	17 km south-south-west of Balclutha.