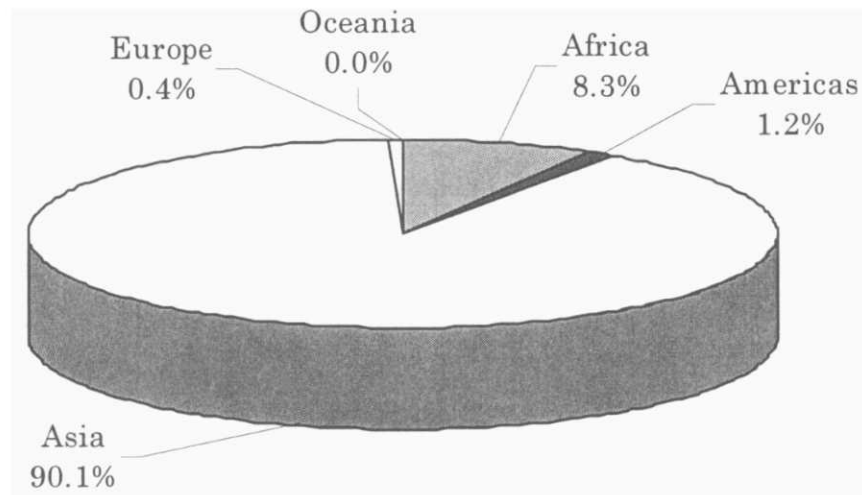
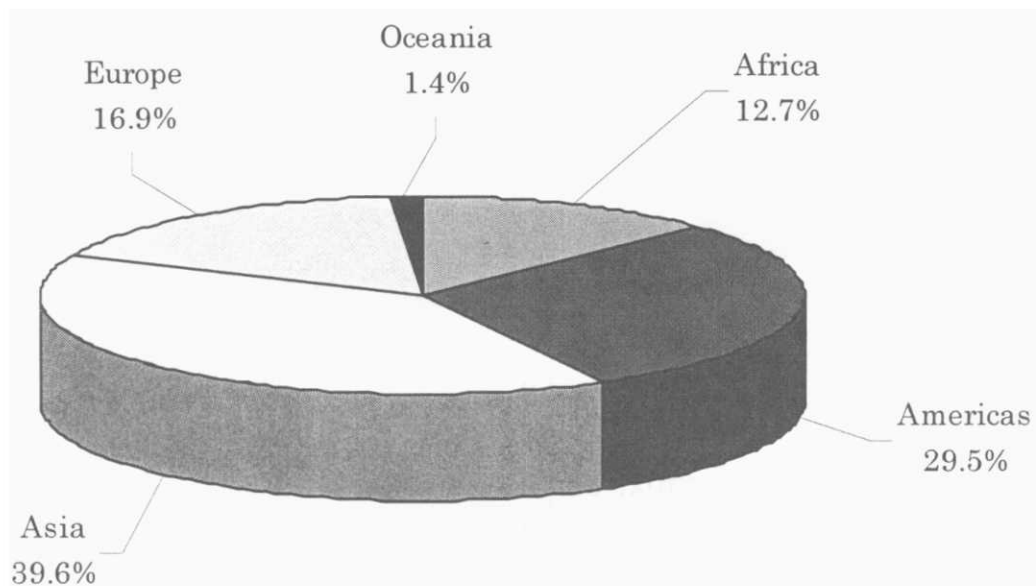


Figure 4:

**Number of Totally Affected People (Region)
(2003)**

Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels, Belgium, 2003

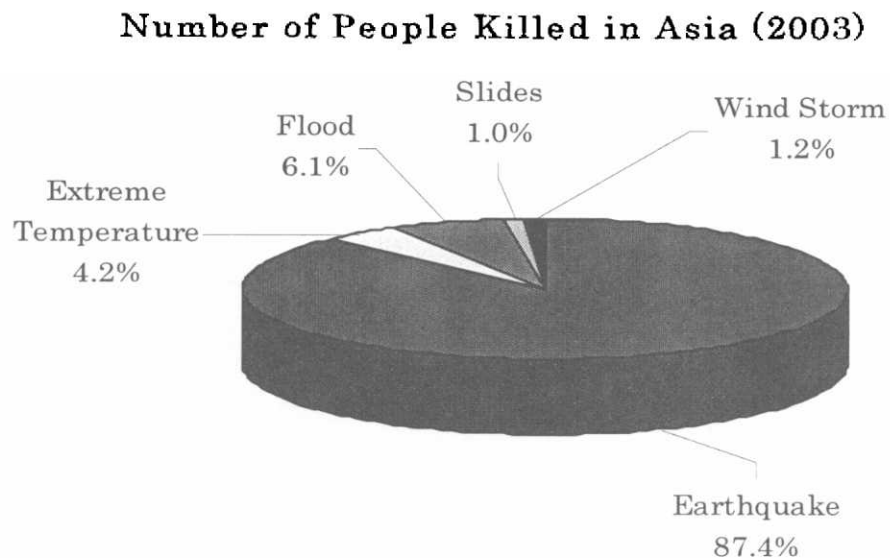
Figure 5:

Amount of Damage (Region) (2003)

Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels, Belgium, 2003

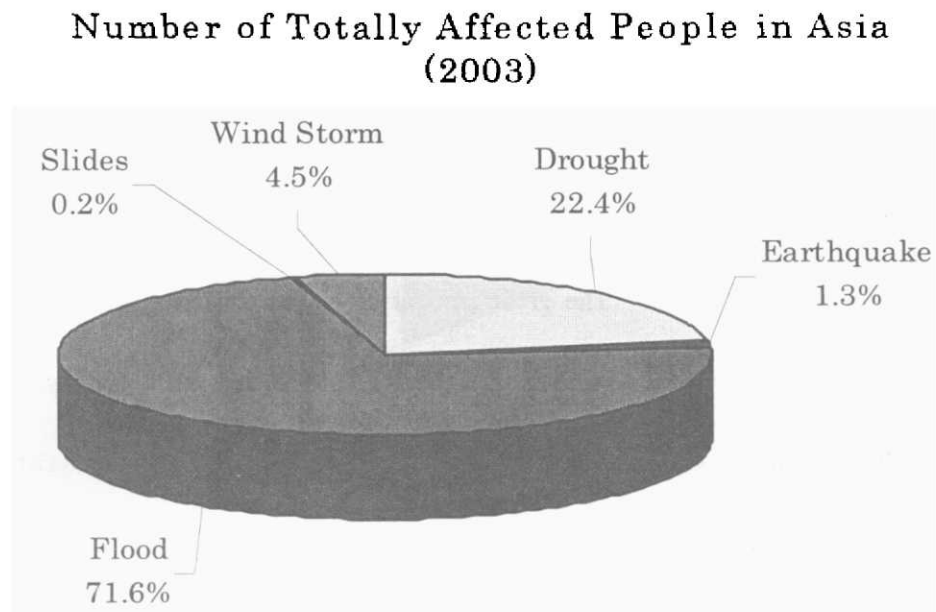
According to the data on disaster type and impact on society and the economy in 2003, the Asian region is highly affected by hydro meteorological disasters like droughts, floods, and windstorms. It can be seen from past analytical studies of disasters and the ADRC's "20th Century Asian Natural Disasters Data Book". Socio-economic and cultural dimensions specific to the Asian region are also two of the reasons for the great number of affected people, though the real economic damage is comparatively small. The great amount of human suffering in this region substantially hinders development activities. Following figures illustrate this trend clearly. Furthermore, the following chapters help us to understand regional differences in the characteristics of disaster in relation to disaster types.

Figure 6:



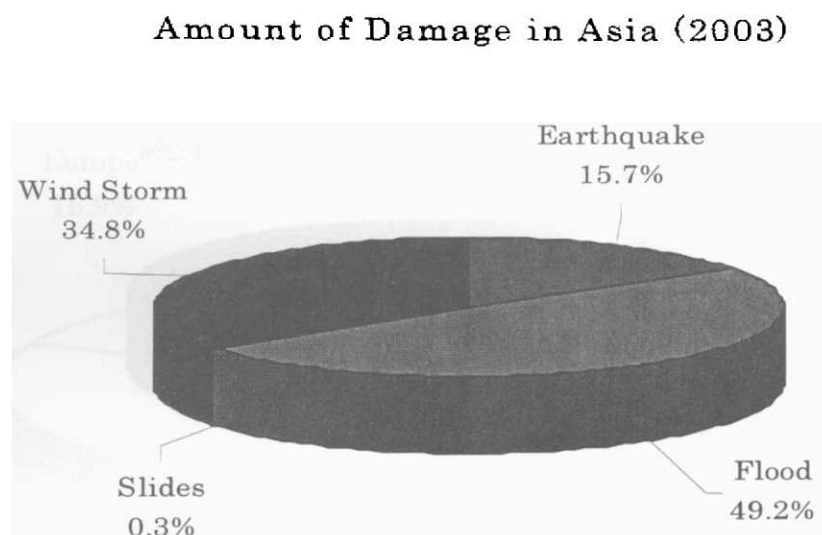
Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels, Belgium, 2003

Figure 7:



Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels, Belgium, 2003

Figure 8:



Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels Belgium, 2003

1.3 Vulnerability of Countries with Small Economy and Population:

It is obvious that the countries with small economy and population suffer more by even the occurrence of one small disaster. Following tables show the ranks of actual disasters in terms of number of killed, number of affected people and amount of damage and the situation, compared to the population and GNI (Gross National Income)² respectively.

Table 4 to 9 illustrate that an actual damage in terms of human or economic loss is small, while its effect on the population and economy is large, compared to the population and GNI of these countries. Accordingly this comparison reveals that countries with small economy and population bear heavy damage in terms of loss share to population and GNI. For example Table 4 shows the ranks of disaster events according to the number of people killed. Table 5 shows the ranks according to the share of killed to population. In Table 5, we can see that countries with small population have larger share of human loss. It can be seen that New Caledonia, ranked at 233 in the Table 4 according to actual number of killed, has moved up to the 20th rank in the Table 5 according to the share of human loss to population. Similar movements could be observed from other countries such as Fiji, American Samoa, Bermuda, Kyrgyzstan, Togo, Oman, Mali and Sri Lanka. Further, Iran stays at the 1st rank in both tables and this shows the huge human effect of the Bam Earthquake. Similar observations can be made from other Tables 6 & 7 and 8 & 9 in terms of affected people and economic damage respectively.

² Here we used the values from World Bank, 2002 data and definition.

Table 5: Top 25 Natural Disasters According to the Ratio of Killed/Population (World) (2003)

Rank (Killed/Pop Rank)	Country	Region	DisType	Dis-Name	Month	Day	Killed	Injured	Homeless	Affected	Total†	Killed/Pop (for 1 Ma people)	(World Fact Book)	GNI (Bn US\$) (World Bank)	Damage US (\$'000s)	Location
1	Iran Islamic Rep	South Asia	Earthquake		12	26	43,200†	15,000	75,500		90,500	63	68278826	112.941	1,000,000	Bam (Kerman province)
2	France	European Union	Extreme Temperature		8	1	14,947				0	25	60180529	1362.077		Paris region
3	Portugal	European Union	Extreme Temperature		8		2,007				0	20	10102022	109.116		
4	American Samoa	Oceania	Flood		5	18	6	3			3	9	70260	0.500	50,000	Pago Pago, Fagatogo
5	Burkina Faso	West Africa	Epidemic	Meningococcal disease	1	1	1,058			7,146	7,146	8	13228460	2.914		Ouagadougou, Manga, Bogandé, Paga, Po, Boussis, Boussé, Zabré, Zorgho, Batié, Léo
6	Netherlands	European Union	Extreme Temperature		7	31	1,200				0	7	16150511	377.603		
7	Italy	European Union	Extreme Temperature		7	16	4,175				0	71	57998353	1100.713		Milan, Turin (Piemont), Milan, Varese (Lombardia), Florence (Toscana), Lecce
8	Algeria	North Africa	Earthquake		5	21	2,266	10,261	200,000		210,261	7	32818500	53.814	5,000,000	Thénia, Boumerdes, Zemmour
9	Germany	European Union	Extreme Temperature		8		5,240				0	61	82398326	1876.340		
10	Bermuda	North America	Wind Storm	Fabian	9	5	4				0	61	64482	2.250	300,000	
11	El Salvador	Central America	Epidemic	Pacumona	6	21	304			50,000	50,000	5	6470379	12.558		Country wide
12	United Kingdom	European Union	Extreme Temperature		8		2,045				0	31	60094648	1510.771		
13	Fiji	Oceania	Wind Storm	Am	1	14	17			30,000	30,000	2	868531	1.750		30,000 Dreudrus Isl., Vanua Levu, Koru, Ovalau, Gau, Nayau, Vamavama, Kaitua, Moala Islands
14	Niger	West Africa	Epidemic		1		195			1,861	1,861	2	11058590	2.012		Matsamye, Magaria, Agoué, Madroufa, Madoua, Taloua, Murrah districts
15	Zambia	East Africa	Epidemic	Cholera	12	4	179			3,835	3,835	21	10307333	3.457		Lusaka, Southern, Copperbelt, Northern and Central provinces
16	Belgium	European Union	Extreme Temperature		8	1	150				0	11	10289088	237.058		
17	Peru	South America	Extreme Temperature		7		339			1,839,886	1,839,886	1	28409897	54.038		Ayacucho, Huancavelica, Tarma, Moquegua, Arequipa, Puno, Cuzco, Apurimac, South part of Ayacucho departments
18	Sri Lanka	South Asia	Flood		5	17	235			695,000	695,000	1	19742439	16.110	29,000	
19	Oman	West Asia	Wind Storm		4	14	30				0	1	2807125	19.877		Nizwa, Muscat, Wilayat
20	New Caledonia	Oceania	Wind Storm	Erica	3	13	2	100	1,000		1,100	1	210798	3.110		40,000 Noumea, Koné, Bourail north province
21	Mali	West Africa	Epidemic	Cholera	8	14	106			1,216	1,216	1	11626219	2.716		Koulikoro, Segou, Mopti, Bamako, Tombouctou, Sikasso regions (along Niger River)
22	Nepal	South Asia	Flood		7	3	239	284	15,575	43,395	59,254	1	26469569	5.538		Entire Nepal
23	Bolivia	South America	Slides		3	31	69	11	300	690	1,001	1	8536443	7.795		Chuma (Tiquina) Larecaja Province La Paz department
24	Kyrgyzstan	Russian Federation	Slides		4	20	38	2	53	156	211	1	4892808	1.442		Karatark (Uzgen district)
25	Togo	West Africa	Epidemic	Cholera	12		37			661	661	1	5429299	1.280		Lomé, Nopce

Source: ADRC Japan and CRED-EMDAT, Université Catholique de Louvain, Brussels, Belgium, 2003

† Ministry of Interior in Iran estimates 26,200 of people killed

Table 6: Top 25 Natural Disasters According to the Number of Totally Affected People (World) (2003)

Rank (Total Aff)	Country	Region	Dis Type	Dis Name	Month	Day	Killed	Injured	Homeless	Affected	Tot Aff	Damage US (\$'000s)	Location
1	China P Rep	East Asia	Flood		6	23	430	146,000		150,000,000	150,146,000	730,000	Zhejiang, Jiangsu, Shaanxi, Guangxi, Guizhou, Gansu, Sichuan, Guizhou, Hunan, Jiangxi, Hubei provinces
2	China P Rep	East Asia	Drought		1					48,000,000	48,000,000		Inner Mongolia Autonomous region
3	Ethiopia	East Africa	Drought							13,200,000	13,200,000		
4	China P Rep	East Asia	Wind Storm	Imbudo	7	24	20	30		7,400,000	7,400,020		Guangxi Guangdong provinces
5	India	South Asia	Flood		6	11	425			4,550,000	4,550,000		Assam, Bihar, Tripura, West Bengal states
6	China P Rep	East Asia	Drought		6					3,000,000	3,000,000		Hunan, Jiangxi, Zhejiang, Fujian provinces
7	India	South Asia	Flood		8	27	67			3,000,000	3,000,000	169,000	Cuttack, Jagatsinghpur, Kendrapara, Jajpur, Puri, Balangir, Sonepur, Kalahandi, Rayagada, Gajapati, Bargarh, Koraput, Nayagarh, Ganjam, Angul (Orissa state)
8	Tanzania Uni	East Africa	Drought							1,900,000	1,900,000		
9	Peru	South America	Extreme Temperature		7		339			1,839,888	1,839,888		Ayacucho, Huancavelca, Tacna, Moquegua, Arequipa, Puno, Cuzco, Apurimac, South part of Ayacucho departments
10	China P Rep	East Asia	Wind Storm	Nepartak	11	18				1,720,000	1,720,000	196,938	Hanan province
11	China P Rep	East Asia	Flood		7	1	18			1,600,000	1,600,000		4,830,000 Anhui, Jiangsu, Henan provinces
12	China P Rep	East Asia	Earthquake		7	21	16	584	45,000	1,250,000	1,295,584		75,000 Dayao district (Yunnan province)
13	Pakistan	South Asia	Flood		7	22	230	456		1,265,767	1,266,223		Badin, Thatta, Larkana, Dadu, Tharparkar, Shikarpur, Karachi, Hyderabad, Nawabshah (Sindh province), Zhob, Awaran, Haran, Dahdar, Jafarabad, Jhal Magsi, Nasceraabad, Bolan, Ziarat Khuzdar, Lasbela, Turbat districts (Balochistan province), Sialkot, Narawal districts (Punjab province)
14	Kenya	East Africa	Flood		4		72			1,000,000	1,000,000		Nyando, Kisumu, Rachuonyo, Migori (Nyanza region), Busia region
15	Russia	Russian Feder	Drought		9					1,000,000	1,000,000		Vladivostok region (Pacific Far East)
16	China P Rep	East Asia	Flood		8	24	123			952,340	952,340	2,440,000	Shaanxi, Gansu, Henan, Hubei, Shandong provinces
17	Eritrea	East Africa	Drought							900,000	900,000		Debub, Gash Barka, Anseba regions
18	Sri Lanka	South Asia	Flood		5	17	235			695,000	695,000		29,000 Ratnapura, Matara, Galle, Hambantota, Kalutara, Nuwara, Eliya districts
19	Namibia	Southern Afr	Drought							642,539	642,539		
20	Madagascar	East Africa	Drought							600,000	600,000		South
21	Bangladesh	South Asia	Flood		6	19	65			500,000	500,000		Khagrachari, Chittagong, Bhola, Feni, Sylhet, Sunamganj, Moulvi bazar, Habiganj, Netrakona, Cox's Bazar, Jamalpur, Lakshimpur, Comilla
22	China P Rep	East Asia	Earthquake		11	15	4	65	3,000	490,000	493,065		Ludian (Zhaotong region, Yunnan province)
23	India	South Asia	Wind Storm		3	12	30	500	190,645	294,765	485,910		16,000 Bankura, Hooghly, Howrah districts (West Bengal)
24	China P Rep	East Asia	Earthquake		8	16	4	1,000	39,500	415,000	455,500		167,000 Ludong-Tianshan area (Inner Mongolia)
25	Mauritania	West Africa	Drought							420,000	420,000		

Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels, Belgium, 2003

Table 7: Top 25 Natural Disasters According to the Ratio of Totally Affected People to Population (World) (2003)

Rank (TotAff)	Rank (TotPop)	Country	Region	DisType	DuName	Month	Day	Killed	Injured	Homeless	Affected	TotAff	TotAffected/P opulation (for 1 M. People)	GNI (Bn US\$) (World Bank)	Damage (\$ '000s)	Locations	
1	15	Namibia	Southern Africa	Drought							642,539	642,539	333,363	1927447	3,548		
2	17	Eritrea	East Africa	Drought							900,000	900,000	206,315	4362254	0,796	Debaia, Gash Barca, Anseba regions	
3	3	Ethiopia	East Africa	Drought							13,200,000	13,200,000	198,325	66557553	6,516		
4	29	Lesotho	Southern Africa	Drought		4					270,000	270,000	145,009	1861959	0,973		
5	25	Mauritania	West Africa	Drought							420,000	420,000	144,202	2912584	0,791		
6	1	China P Rep	East Asia	Flood		6	23	430	146,000		150,000,000	150,146,000	116,666	1,287E+09	1234,157	730,000 Dandong, Jilin, Shaanxi, Guangxi, Guizhou, Gansu, Sichuan, Shandong, Henan, Jiangxi, Fujian provinces	
7	9	Peru	South America	Extreme Temperature		7		339		1,839,888	1,839,888	64,761	28409897	34,038	Ayacucho, Huancavelica, Tarma, Moquegua, Arequipa, Puno, Cusco, Apurimac, South part of Amazon department		
8		Tanzania Uta R Rep	East Africa	Drought							1,900,000	1,900,000	52,892	35922454	9,674		
9		China P Rep	East Asia	Drought							48,000,000	48,000,000	37,207	1,287E+09	1234,157	Inner Mongolia Autonomous region	
10		Madagascar	East Africa	Drought							600,000	600,000	35,336	16079744	3,844	South	
11		Sri Lanka	South Asia	Flood		5	17	235		695,000	695,000	35,203	19742439	16,110	29,000	Southern, eastern, Samaragama Provinces	
12		Fiji	Oceania	Wind Storm	Amf	1	14	17		30,000	30,000	34,541	868551	1,750	30,000	Dendrobia Isl, Vanua Levu, Koro, Ovale, Caki, Vavuni, Vavuni, Kabaia, Momi islands	
13		Kenya	East Africa	Flood		4		72		1,000,000	1,000,000	31,906	31639092	11,160		Nairobi, Kisumu, Eastern, Nyeri (Nyeri region), Baringo region	
14		Mozambique	East Africa	Flood		2	4	32		400,000	400,000	22,884	17479266	3,645		Provincia-Matigala district, Cabo Delgado province, Niampula province	
15		Haiti	Caribbean	Flood		12	20	38		150,000	150,000	19,926	7527817	3,614		Cap-Haitien, Port-au-Prince	
16		Bosnia-Herzegovina	East of Europe	Drought		6				62,575	62,575	15,887	3949018	5,402	250,000	Struga Republic, Posavina Canton, Neretva Canton	
17		Mozambique	East Africa	Drought				9		175,000	175,000	10,012	17479266	3,645		Maganje, Zumbo, Cahora Bassa, Chamusca, Moatize, Chimoio, Mutema districts (Tete province)	
18		Madagascar	East Africa	Wind Storm	Mizou	5	8	89	86	47,500	114,500	162,086	9,546	10979744	3,844		Vakinankarandy, Androvoandahy districts (Tananarivo province)
19		Micronesia Fed States	Oceania	Wind Storm	Lupit	11	21			1,000	1,000	9,247	108143	0,242		Ulithi Atoll, Wotho Atoll, Fais Island, Rongelap Island, Yap Island	
20		Sudan	North Africa	Flood		7	28	20	56	325,000	325,056	8,528	38114160	12,245	184,000	Khartoum state	
21		Pakistan	South Asia	Flood		7	22	230	456	1,265,767	1,266,323	8,403	150694740	60,896		Bahawalpur, Thatta, Larkana, Dera, Bhakkar, Shikarpur, Rawalpindi, Hyderabad, Naranchar, (South provinces), Dera, Amrota, Haripur, Dauder, Islamabad, Feroz Khan, Muzaffargarh, Bahawalpur, Faisalabad, Lahore, Faisalabad, Bahawalpur provinces, Sindh, National provinces, Punjab provinces	
22		El Salvador	Central America	Epidemic	Pneumonia	6	21	304		50,000	50,000	7,728	6470379	13,558		Country wide	
23		Mauritania	West Africa	Flood		8	7	3	21,000		21,000	7,210	2912584	0,791		Asaba, Gorgol, Kerkira, Adrar regions	
24		Russia	Russian Federation	Drought						1,000,000	1,000,000	6,919	144526278	306,575		Volgograd region (Pacific part, East)	
25		Algeria	North Africa	Earthquake		5	21	2,266	10,261	200,000	210,261	6,407	32818500	53,814	5,000,000	Thama, Boumerdes, Zemmour	

Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels, Belgium, 2003

Table 8: Top 25 Natural Disasters According to Amount of Damage (World) (2003)

Rank (Amt. Damage)	Country	Region	DisType	DisName	Mont			Homeless	Affected	TotAff	DamageUS ('000s)	Location	
					h	Day	Killed						
1	Korea Rep	East Asia	Wind Storm	Maemu	9	12	130	15,000	65,000	80,000	5,500,000	Gyeonggiang, Gangweon, South Kyongsang, North Kyongsang, Pusan, South Cholla provinces	
2	Algeria	North Africa	Earthquake		5	21	2,266	10,261	200,000	210,261	5,000,000	Thensa, Boumerdes, Zemmouri	
3	United States	North America	Wind Storm	Isabel	9	18	21		225,000	225,000	5,000,000	North Carolina, Maryland, Virginia, Washington, West Virginia	
4	United States	North America	Wind Storm		3	20	6	300	186	386	5,000,000	Georgia state	
5	China P Rep	East Asia	Flood		7	1	18		1,600,000	1,600,000	4,830,000	Anhui, Jiangsu Henan provinces	
6	China P Rep	East Asia	Flood		8	24	123		952,340	952,340	2,440,000	Shaanxi, Gansu, Henan, Hubei Shandong provinces	
7	Portugal	European Union	Wild Fires			27	20	1,500		1,500	1,730,000	Brabanca, Viseu, Viana do Castelo, Guarda, Castelo Branco, Portalegre, Santarem, Leiria, Amlais de Cima (Pemes), Vale de Serra (Torres Novas), Porto, Guarda, Braga	
8	France	European Union	Flood		12	2	9		27,000	27,000	1,500,000	Herauld, Gard, Bouches-du- Rhône, Vaucluse (South and	
9	Iran Islam Rep	South Asia	Earthquake		12	26	43,200†	15,000	75,600	90,600	1,000,000	Bam (Kerman province)	
10	Argentina	South America	Flood		4	28	23	20,000	140,000	160,000	982,000	La Capital (Santa Fe city), Garay, Vera, San Cristobal, San Justo, 9 de Julio, Las Colonias, Castellano, San	
11	Italy	European Union	Flood		1	25	1		1,000	1,000	839,000	Abuzzo, Puglia, Molise, Basilicata	
12	China P Rep	East Asia	Flood		6	23	430	146,000	150,000,000	150,146,000	730,000	Zhejiang, Jiangsu, Shaanxi, Guangxi, Guizhou, Gansu, Sichuan, Guizhou, Huanan, Jiangxi, Hubei provinces	
13	Germany	European Union	Flood		1	1	7	20	1,000	1,020	675,000	Bavière, Sarre, Rhénane- Palatinat, Hesse, Rhénane du Nord-Westphalie, Saxe, Saxe- Anhalt, Thouring, Cologne, Coblence, Hambourg	
14	Greece	European Union	Flood		2	2				0	656,218	Achaia, Ilexa prefectures (Peloponese)	
15	Italy	European Union	Flood		8	29	2		350	350	655,000	Udine province, Frioul-Vénétie Julienne	
16	Japan	East Asia	Earthquake		9	26	2	773		773	563,000	Hokkaido	
17	Italy	European Union	Earthquake		4	11		2	230	232	561,352	Alessandria (Piemont)	
18	Canada	North America	Wild Fires		8	1	1			0	545,000	British Columbia, Alberta, Saskatchewan, Manitoba	
19	Japan	East Asia	Earthquake		7	26		569	219	17,403	18,191	411,000	Miyagi prefecture (Honshu)
20	United States	North America	Wind Storm		2	15	4	18		18	400,000	Connecticut, Delaware, Florida, Georgia, Kentucky, Massachusetts, Maryland, North Carolina, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Islands, South Carolina, Tennessee, West Virginia	
21	Croatia	Rest of Europe	Drought		1					0	330,000		
22	Australia	Oceania	Wild Fires		1	8	4	150	2,500	2,650	300,000	Canberra region	
23	Bermuda	North America	Wind Storm	Fabian	9	5	4			0	300,000		
24	Bosnia-Herzeg	Rest of Europe	Drought		6	1			62,575	62,575	250,000	Srpska Republik, Posavina Canton, Neretva Canton	
25	China P Rep	East Asia	Wind Storm	Dajuan	9	3	38	1,000	68,925	69,925	241,000	Shenzhen, Guangdong province, Fujian province	

Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain Brussels, Belgium, 2003

† Ministry of Interior in Iran estimates 26,200 of people killed

Table 9: Top 25 Natural Disasters According to the Ratio of Amount of Damage to GNI (World) (2003)

Rank (Dam./GNI)	Rank (Damage)	Country	Region	DisType	DisName	Month	Year	Killed	Injure	Homeless	Affected	Total†	(2003) World Fact Book	GNI (Bn US\$) (World Bank)	Dam/GNI (%)	Damage US (\$ '000s)	Location
1	23	Bermuda	North America	Wind Storm	Fabian	9	5	4				0	64482	2,250	13.333	300,000	
2	44	American Samoa	Oceania	Flood		5	18	6	3			3	70260	0.500	10.000	50,000	Pago Pago, Fagaloa
3	2	Algeria	North Africa	Earthquake		5	21	2,266	10,261	200,000		210,261	32818500	53.814	9.291	5,000,000	Thénia, Boumerdes, Zetoun
4	24	Bosnia-Herzegovina	Rest of Europe	Drought		6	1				62,575	62,575	3989018	5.402	4.628	250,000	Spilva Republi, Posavska Clana, Novska Canton
5	33	Madagascar	East Africa	Flood		1	18	16		3,582	19,788	23,370	16979744	3.844	3.902	150,000	Antananarivo, Fianarantsoa, Antananarivo, Mahajanga, Toamasina provinces
6	45	Tajikistan	Russian Federation	Slides		4	13	1		6,000	6,000	6863752	1.115	3.677	41,000	Lenin district	
7	28	Zimbabwe	East Africa	Flood		2	25	2		18,000	18,000	12576742	6.457	3.097	200,000	Machopond Central and West, Mutemahe, Gwelo	
8	62	Tajikistan	Russian Federation	Flood		6	6	6		780	975	1,755	6863752	1.115	1.794	20,000	Sughd Oblast
9	53	Fiji	Oceania	Wind Storm	Amu	1	14	17			30,000	30,000	868531	1.750	1.714	30,000	Dranvula Isl., Vavuni Levu, Koro, Ovalau, Gau Niyon, Vanua Vatu, Kaba, Moala Islands
10	21	Croatia	Rest of Europe	Drought		1						0	4422248	20.262	1.629	330,000	
11	7	Portugal	European Union	Wild Fires			27	20		1,500	1,500	10102022	109.116	1.585	1,730,000	Beira, Vila, Vila do Castelo, Coimbra, Castelo Branco, Faro, Sagres, Sagres, Lous, Anfole de Cima (Ponte), Vale de Senna (Torres Novas), Porto, Guarda, Braga	
12	30	Sudan	North Africa	Flood		7	28	20	56	325,000	325,056	38214160	12.245	1.503	184,000	Kassala state	
13	47	New Caledonia	Oceania	Wind Storm	Erica	3	13	2	100	1,000		1,100	210798	3.110	1.286	40,000	Noumea, Kon, Bourail north province
14	2	Korea Rep	East Asia	Wind Storm	Maemi	9	12	136		15,000	65,000	80,000	48289037	473.050	1.163	5,500,000	Gyeonggi, Gangwon, South Kyongang, North Kyongang, Pusan, South Cholla provinces
15	9	Iran Islam Rep	South Asia	Earthquake		12	26	43,200†	15,000	75,600		90,600	68278826	112.941	0.835	1,000,000	Ban (Kerman province)
16	10	Argentina	South America	Flood		4	28	23		20,000	140,000	160,000	38740807	153.959	0.638	982,000	La Capital (same Pc city), Cerey Vera, San Cristobal, San Juan 9 de Julio, Las Colonias, Castellan, San Jeronimo
17	14	Greece	European Union	Flood		2	2					0	10665989	123.915	0.530	656,218	Achaia, Ionia prefectures (Peloponnese)
18	5	China P Rep	East Asia	Flood		7	1	18			1,600,000	1,600,000	1.287E+09	1234.157	0.391	4,830,000	Amur, Jiangsu, Henan provinces
19	60	Honduras	Central America	Flood		11	28	7			3,000	3,000	6669789	6.316	0.317	20,000	Coma city region (Atlautla, Yoro provinces)
20	36	Hungary	Rest of Europe	Drought		7						0	10045407	53.707	0.242	130,000	
21	6	China P Rep	East Asia	Flood		8	24	123			952,340	952,340	1.287E+09	1234.157	0.198	2,440,000	Shaanxi, Gansu, Henan, Hubei, Shandong provinces
22	54	Sri Lanka	South Asia	Flood		5	17	235			695,000	695,000	19742439	16.110	0.180	29,000	
23	8	France	European Union	Flood		12	2	9			27,000	27,000	60180529	1362.077	0.110	1,500,000	Hérault, Gard, Bouches-du-Rhône, Vaucluse (South and East)
24	48	Viet Nam	South-east Asia	Flood		9	10	15			1,000	1,000	81624716	34.840	0.109	38,000	Nghé An, Thanh Binh, Nam Dinh, Lan Xa, Ha Tinh provinces
25	49	Viet Nam	South-east Asia	Flood		11	11	61	34	8,880	185,135	194,049	81624716	34.840	0.100	35,000	Nghé Tinh, Binh Dinh, Phu Yen, Khanh Hoa, Quang Nam, Duc Lac provinces

Source: ADRC, Japan and CRED-EMDAT, Universite Catholique de Louvain, Brussels, Belgium, 2003

† Ministry of Interior in Iran estimates 26,200 of people killed

The above tables and figures clearly show the trend of the world's and Asia's natural disasters, their impacts, and characteristics for the year 2003. It is equally important to analyze disaster impact on economic development and efforts for sustainable development in order to stimulate effective disaster risk management approaches. The following chapters will illustrate these issues in detail with respect to human development and income levels.