

## APPENDIX 4 MIDDLE LIST CITIES

Table A4-1 Middle List Cities (No.1~No.42)

No.	Serial No.	Code	Name	latitude	longitude	Population	Natural Hazard					Exposure	
							EQ	TS	FL	CYW	CYS	IA	Infra
1	5	KHM01	Băttămbăng	13.092	103.196	140,533	2	0	8	0	0	0	0
2	6	KHM02	Kămpóng Cham	11.992	105.464	47,300	2	0	10	0	0	0	0
3	16	KHM12	Phnom Pénh	11.570	104.920	1,242,992	2	0	10	0	0	1	3
4	30	IDN02	Banda Aceh	5.550	95.320	249,499	8	10	8	0	0	0	1
5	31	IDN03	Bandar Lampung	-5.410	105.258	1,167,101	8	10	0	0	0	0	2
6	39	IDN11	Bitung	1.443	125.193	202,204	6	0	0	0	0	0	2
7	46	IDN18	Denpasar	-8.650	115.220	880,600	8	10	0	0	0	0	1
8	49	IDN21	Gorontalo	0.537	123.061	197,970	6	0	8	0	0	0	0
9	58	IDN30	Kota Ambon	-3.694	128.181	395,423	10	6	0	0	0	0	0
10	62	IDN34	Kota Bima	-8.452	118.725	156,400	6	0	0	0	0	0	0
11	72	IDN44	Kota Semarang	-6.970	110.420	1,672,999	6	0	8	0	0	3	3
12	111	IDN83	Samarinda	-0.500	117.150	797,006	2	0	8	0	0	0	0
13	131	LAO05	Luangprabang (luang)	19.892	102.136	90,300	4	0	10	0	0	0	2
14	138	LAO12	Pakxane (bolikh)	18.395	103.656	45,000	4	0	8	6	0	0	1
15	145	LAO19	Thalhek (kham)	17.399	104.804	90,800	2	0	10	6	0	2	0
16	153	MYS01	Kota Setar (Alor Setar)	6.110	100.370	366,787	2	2	10	0	0	3	0
17	158	MYS06	Timur Laut (George Town)	5.421	100.341	520,242	4	10	6	0	0	3	1
18	166	MYS14	Kuala Terengganu	5.330	103.140	343,284	2	0	6	0	0	3	0
19	171	MYS19	Langkawi	6.321	99.849	94,777	2	4	0	0	0	2	1
20	183	MYS31	Sibu	2.300	111.830	247,995	2	0	8	0	0	2	0
21	185	MYS33	Kuala Muda (Sungai Petani)	5.650	100.480	456,605	4	0	0	0	0	3	0
22	190	MMR02	Amarapura	21.903	96.049	237,618	10	0	10	0	0	3	0
23	229	MMR41	Hakha	22.640	93.605	48,352	10	0	0	6	0	0	0
24	256	MMR68	Kale	23.193	94.030	348,573	10	0	6	8	0	0	0
25	287	MMR99	Kyaukpyu	19.424	93.554	165,352	6	10	6	6	2	0	2
26	295	MMR107	Kyimyindaing-WY	16.815	96.122	111,514	4	8	10	10	2	3	2
27	321	MMR133	Manaung	18.854	93.729	56,966	6	10	0	6	2	0	0
28	365	MMR177	Mrauk-U	20.592	93.188	189,630	8	10	0	8	4	0	0
29	375	MMR187	Myingyan	21.457	95.392	276,096	10	0	10	0	0	2	0
30	399	MMR211	Nyaung-U	21.195	94.910	239,947	8	0	10	0	0	0	0
31	428	MMR240	Pwintbyu	20.363	94.669	163,692	8	0	8	0	0	1	0
32	437	MMR249	Rathedaung	20.488	92.754	111,974	8	10	0	8	4	0	0
33	496	MMR308	Toungup	18.858	94.243	158,341	6	10	0	6	4	0	0
34	529	PHL11	Batangas city	13.756	121.058	305,607	10	10	0	8	0	3	2
35	537	PHL19	Butuan city	8.948	125.541	309,709	10	4	8	6	2	0	0
36	552	PHL34	Cavite city	14.479	120.897	101,120	10	10	10	8	0	3	1
37	555	PHL37	Dagupan city	16.043	120.333	163,676	8	10	8	6	2	0	0
38	572	PHL54	Iloilo city	10.697	122.569	424,619	8	0	0	8	0	0	2
39	581	PHL63	Laoag city	18.200	120.590	104,904	8	2	8	8	2	0	2
40	595	PHL77	Mandaue city	10.330	123.930	331,320	8	0	0	8	0	3	3
41	601	PHL83	Meycauayan	14.749	120.973	199,154	10	10	10	10	0	3	1
42	607	PHL89	Olongapo city	14.820	120.280	221,178	10	10	8	8	0	3	3

Note: Cities by blue letters and figures were recommended by member's state of AMS

EQ: Earthquake, TS: Tsunami, FL: Flood, CYW: Tropical cyclones (Typhoon/Monsoon)-Wind, CYS: Tropical cyclones (Typhoon/Monsoon)-Surge, IA: Industrial agglomerate area, Infra: Key regional infrastructure (key seaport and airport)

KHM: Cambodia, IDN: Indonesia, LAO: Lao PDR, MYS: Malaysia, MMR: Myanmar, PHL: Philippines

Note: Some population figures in the middle list cities were modified from the long list cities due to spatial data availability for the preliminary risk assessment for short list cities.

Source: JICA Project Team

Table A4-2 Middle List Cities (No.42~No.56)

No.	Serial No.	Code	Name	latitude	longitude	Population	Natural Hazard					Exposure	
							EQ	TS	FL	CYW	CYS	IA	Infra
43	738	THA26	Nakhon Si Thammarat Province / Pak Phanang District	8.348	100.200	85,487	2	0	4	0	0	0	0
44	740	THA28	Pathum Thani Province / Pathum Thani District	14.020	100.524	220,154	2	0	8	0	0	3	0
45	745	THA33	Songkla Province / Ranot District	7.778	100.322	62,220	2	0	6	0	0	0	0
46	746	THA34	Rayong Province / Rayong District	12.680	101.280	364,544	2	0	8	0	0	1	0
47	755	THA43	Nan Province / Wiang Sa District	18.570	100.751	67,861	6	0	6	0	0	0	0
48	757	VNM01	Anh Khe	13.953	108.661	63,118	2	0	6	4	0	0	0
49	759	VNM03	Bạc Liêu	9.288	105.722	109,529	2	10	8	0	0	0	0
50	773	VNM17	Đồng Hới	17.470	106.620	76,058	2	8	10	6	2	2	0
51	775	VNM19	Hạ Long	20.970	107.080	201,990	2	0	6	6	2	3	2
52	777	VNM21	Hà Tĩnh	18.340	105.903	63,415	2	8	8	6	2	0	0
53	781	VNM25	Hội An	15.880	108.340	69,222	2	8	10	6	2	2	0
54	782	VNM26	Huế	16.480	107.580	302,983	2	6	10	8	2	1	0
55	799	VNM43	Qui Nhơn	13.783	109.220	255,463	2	10	10	6	2	3	0
56	802	VNM46	Sơn La	21.327	103.914	56,848	6	0	0	4	0	0	0

Note: Cities by blue letters and figures were recommended by member's state of AMS

EQ: Earthquake, TS: Tsunami, FL: Flood, CYW: Tropical cyclones (Typhoon/Monsoon)-Wind, CYS: Tropical cyclones (Typhoon/Monsoon)-Surge, IA: Industrial agglomerate area, Infra: Key regional infrastructure (key seaport and airport)  
KHM: Cambodia, IDN: Indonesia, LAO: Lao PDR, MYS: Malaysia, MMR: Myanmar, PHL: Philippines

Note: Some population figures in the middle list cities were modified from the long list cities due to spatial data availability for the preliminary risk assessment for short list cities.

Source: JICA Project Team



Source: JICA Project Team

Figure 4-1 Distribution of Middle Listed Cities by Natural Hazard Type in AMS