



MANGKHUT-18 - Population Exposure Estimation based on bulletin n. 38

The population exposure, summarized by Admin 0, 1 and 2, has been calculated using a 1 km resolution LandScan raster (LandScan Database 2015). Admin boundaries are defined by Gaul 2015 dataset. Windspeed buffers are produced by GDACS (JRC)
This is a preliminary analysis and has not yet been validated in the field.

Analysis performed by ADAM (Automated Disaster Analysis and Mapping) on 16-09-2018 at 08:47 UTC
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admin0	admin1	admin2	population			Total	
			60km/h	90km/h	120km/h		
CHINA	Fujian Sheng	Longyan	1,885,654			1,885,654	
		Quanzhou	570,672			570,672	
		Xiamen	3,073,576			3,073,576	
		Zhangzhou	5,086,696			5,086,696	
	Guangdong Sheng	Chaozhou	2,416,371			2,416,371	
		Dongguan		3,626,965	4,671,074	8,298,039	
		Foshan		648,734	6,365,202	7,013,936	
		Guangzhou		8,047,295	5,161,840	13,209,135	
		Heyuan	1,758,899	1,241,063		2,999,962	
		Huizhou		4,674,336	85,914	4,760,250	
		Jiangmen			4,501,993	4,501,993	
		Jieyang	5,756,935	221,692		5,978,627	
		Maoming			5,961,884	5,961,884	
		Meizhou	4,251,594	61,952		4,313,546	
		Qingyuan	1,138,375	2,630,958		3,769,333	
		Shantou	5,524,538			5,524,538	
		Shanwei	6,720	3,021,120		3,027,840	
		Shaoguan	2,754,407	238,327		2,992,734	
		Shenzhen			10,328,018	10,328,018	
		Yangjiang			2,515,165	2,515,165	
		Yunfu			2,459,912	2,459,912	
		Zhanjiang	702,702	4,529,122	1,588,669	6,820,493	
		Zhaoqing	589	2,134,557	1,735,351	3,870,497	
		Zhongshan			3,313,876	3,313,876	
	Zhuhai			1,628,237	1,628,237		
	Guangxi Zhuangzu Zizhiqu	Baise	1,233,018	2,309,652		3,542,670	
		Beihai	706	1,449,576	43,789	1,494,071	
		Chongzuo	615,022	3,658,735	681,813	4,955,570	
		Fangchenggang	233,646	601,619		835,265	
		Guigang		90,040	4,147,915	4,237,955	
		Guilin	4,599,415	264,615		4,864,030	
		Hechi	1,033,819	2,248,348		3,282,167	
		Hezhou	814,826	1,213,813		2,028,639	
		Laibin	1,086,952	2,227,213	269,486	3,583,651	
		Liuzhou	167,005	2,265,385		2,432,390	
		Nanning		4,124,971		4,124,971	
		Qinzhou		1,942,811	1,135,893	3,078,704	
		Wuzhou		667,032	2,289,907	2,956,939	
		Yulin		86,398	5,505,107	5,591,505	
		Guizhou Sheng	Anshun	1,721,170			1,721,170
	Guiyang		2,979			2,979	
	Liupanshui		1,631,020			1,631,020	
	Qiandongnan Miao and Dong		1,309,645			1,309,645	
	Qiannan Buyei and Miao		2,242,609			2,242,609	
	Qianxinan Buyei and Miao	Qianxinan Buyei and Miao	2,908,518			2,908,518	
		Hainan Sheng	Haikou	1,256,147			1,256,147
			Hainan	6,305,533		1	6,305,534
	Sanya		1,155			1,155	
	Hunan Sheng	Chenzhou	4,101,756			4,101,756	
		Hengyang	780,291			780,291	
		Huaihua	422,034			422,034	
		Shaoyang	848,072			848,072	
		Yongzhou	4,425,411			4,425,411	
Zhuzhou		10,075			10,075		
Jiangxi Sheng	Ganzhou	5,356,906			5,356,906		
	Ji'an	20,157			20,157		
Yunnan Sheng	Honghe Hani and Yi	2,916,628			2,916,628		
	Kunming	1,424,053			1,424,053		
	Qujing	4,115,378			4,115,378		
	Wenshan Zhuang and Miao	3,633,305	474		3,633,779		

		Yuxi	758,519			758,519
CHINA - TOT			90,903,498	54,226,804	64,391,045	209,521,347
GUAM	---	---		15,587	139,476	155,063
GUAM - TOT				15,587	139,476	155,063
HONG KONG	---	---			6,831,501	6,831,501
HONG KONG - TOT					6,831,501	6,831,501
NORTHERN MARIANA ISLANDS	---	---		35,325	3,054	38,379
NORTHERN MARIANA ISLANDS - TOT				35,325	3,054	38,379
PHILIPPINES	Cordillera Administrative region (CAR)	Abra			276,072	276,072
		Apayao			131,438	131,438
		Benguet	665,787		89,993	755,780
		Ifugao	5,724		235,047	240,771
		Kalinga			238,332	238,332
		Mountain Province			195,040	195,040
	National Capital region (NCR)	Metropolitan Manila	13,243,822			13,243,822
	Region I (Ilocos region)	Ilocos Norte			670,756	670,756
		Ilocos Sur		1,941	777,447	779,388
		La Union		661,008	131,497	792,505
		Pangasinan		3,164,727		3,164,727
	Region II (Cagayan Valley)	Batanes	1,054	6,719		7,773
		Cagayan			1,320,575	1,320,575
		Isabela		23,841	1,632,732	1,656,573
		Nueva Vizcaya		438,882	56,089	494,971
		Quirino		134,742	58,696	193,438
	Region III (Central Luzon)	Aurora	9,725		190,393	211,328
		Bataan	686,077			686,077
		Bulacan	2,899,109			2,899,109
		Nueva Ecija	511,365	1,708,656		2,220,021
		Pampanga	2,286,632			2,286,632
		Tarlac	312,172	1,050,225		1,362,397
		Zambales	665,044	105,126		770,170
	Region IV (Southern Tagalog)	Marinduque	264,836			264,836
		Mindoro Occidental	125,575			125,575
		Mindoro Oriental	510,355			510,355
	Region IV-A (Calabarzon)	Batangas	2,325,824			2,325,824
		Cavite	2,397,630			2,397,630
		Laguna	3,119,762			3,119,762
		Quezon	2,178,297			2,178,297
		Rizal	1,760,848			1,760,848
	Region V (Bicol region)	Albay	1,405,576			1,405,576
		Camarines Norte	602,852			602,852
		Camarines Sur	2,021,814			2,021,814
		Catanduanes	252,835			252,835
		Masbate	16,949			16,949
		Sorsogon	668,003			668,003
	Region VIII (Eastern Visayas)	Eastern Samar	98			98
		Northern Samar	344,685			344,685
PHILIPPINES - TOT			38,610,939	8,157,771	5,824,924	52,593,634
TAIWAN	Taiwan Sheng	Name Unknown	2,614,817			2,614,817
TAIWAN - TOT			2,614,817			2,614,817
VIET NAM	Bac Giang	Bac Giang City	111,451			111,451
		Hiep Hoa	238,805			238,805
		Lang Giang	210,957			210,957
		Luc Nam	217,455			217,455
		Luc Ngan	221,209			221,209
		Son Dong	75,309			75,309
		Tan Yen	173,099			173,099
		Viet Yen	169,181			169,181
		Yen Dung	186,702			186,702
		Yen The	106,003			106,003
	Bac Kan	Ba Be	50,792			50,792
		Bac Kan Township	40,778			40,778
		Bach Thong	33,225			33,225
		Cho Don	53,097			53,097
		Cho Moi	40,315			40,315
		Na Ri	41,315			41,315
		Ngan Son	30,476			30,476
		Pac Nam	32,419			32,419
	Bac Ninh	Bac Ninh Township	158,471			158,471
		Gia Binh	106,813			106,813
		Luong Tai	102,268			102,268
		Que Vo	142,881			142,881
		Thuan Thanh	115,670			115,670
		Tien Du	137,730			137,730
		Tu Son	50,954			50,954
		Yen Phong	145,426			145,426
	Cao Bang	Bao Lac	54,998			54,998

	Bao Lam	58,738		58,738	
	Cao Bang Township	35,315		35,315	
	Ha Lang	4,861	23,930	28,791	
	Ha Quang	36,444		36,444	
	Hoa An	94,861		94,861	
	Nguyen Binh	43,060		43,060	
	Phuc Hoa	24,836		24,836	
	Quang Uyen	42,787		42,787	
	Thach An	33,469		33,469	
	Thong Nong	25,584		25,584	
	Tra Linh	23,445		23,445	
	Trung Khanh	7,914	45,710	53,624	
Ha Giang	Bac Me	52,394		52,394	
	Bac Quang	116,495		116,495	
	Dong Van	71,003		71,003	
	Ha Giang Township	49,477		49,477	
	Hoang Su Phi	64,643		64,643	
	Meo Vac	75,692		75,692	
	Quan Ba	49,110		49,110	
	Quang Binh	61,852		61,852	
	Vi Xuyen	106,944		106,944	
	Xin Man	64,612		64,612	
	Yen Minh	88,611		88,611	
Ha Noi City	Dong Anh	480		480	
	Soc Son	118,325		118,325	
Hai Duong	Binh Giang	46,149		46,149	
	Cam Giang	141,179		141,179	
	Chi Linh	172,490		172,490	
	Gia Loc	133,806		133,806	
	Hai Duong City	250,182		250,182	
	Kim Thanh	148,392		148,392	
	Kinh Mon	157,235		157,235	
	Nam Sach	121,437		121,437	
	Ninh Giang	103,463		103,463	
	Thanh Ha	170,685		170,685	
	Thanh Mien	1,321		1,321	
	Tu Ky	169,442		169,442	
	Hai Phong City	An Hai	348,041		348,041
An Lao		150,611		150,611	
Bach Long Vi					
Cat Hai		28,906		28,906	
Do Son Township		47,594		47,594	
Hong Bang		98,025		98,025	
Kien An		102,820		102,820	
Kien Thuy		187,365		187,365	
Le Chan		169,172		169,172	
Ngo Quyen		203,185		203,185	
Thuy Nguyen Ward		328,436		328,436	
Tien Lang		153,047		153,047	
Vinh Bao		187,454		187,454	
Hung Yen		My Hao	3,551		3,551
		Van Lam	11,205		11,205
		Bac Son	72,407		72,407
Lang Son		Binh Gia	57,030		57,030
	Cao Loc	75,388		75,388	
	Chi Lang	81,362		81,362	
	Dinh Lap	27,970		27,970	
	Huu Lung	123,924		123,924	
	Lang Son City	100,088		100,088	
	Loc Binh	86,992		86,992	
	Trang Dinh	64,216		64,216	
	Van Lang	57,402		57,402	
	Van Quan	59,480		59,480	
	Lao Cai	Bac Ha	58,846		58,846
		Bao Thang	44,912		44,912
Bao Yen		64,169		64,169	
Bat Xat		46,692		46,692	
Lao Cai City		72,741		72,741	
Muong Khuong		57,375		57,375	
Quang Ninh	Si Ma Cai	35,037		35,037	
	Ba Che	20,540		20,540	
	Binh Lieu	30,725		30,725	
	Cam Pha Township	176,026		176,026	
	Co To	5,397		5,397	
	Dam Ha	36,551		36,551	
	Dong Trieu	172,402		172,402	
	Ha Long City	208,780		208,780	

		Hai Ha	57,420		57,420
		Hoanh Bo	49,307		49,307
		Mong Cai Township	106,954		106,954
		Tien Yen	48,592		48,592
		Uong Bi Township	115,225		115,225
		Van Don	42,343		42,343
		Yen Hung	142,449		142,449
	Thai Binh	Quynh Phu	56,610		56,610
		Thai Thuy	163,855		163,855
		Tien Hai	939		939
	Thai Nguyen	Dai Tu	177,548		177,548
		Dinh Hoa	96,769		96,769
		Dong Hy	126,018		126,018
		Pho Yen	152,898		152,898
		Phu Binh	141,710		141,710
		Phu Luong	113,592		113,592
		Song Cong Township	60,749		60,749
		Thai Nguyen City	291,339		291,339
		Vo Nhai	70,613		70,613
	Tuyen Quang	Chiem Hoa	144,858		144,858
		Ham Yen	121,593		121,593
		Na Hang	66,043		66,043
		Son Duong	69,041		69,041
		Tuyen Quang Township	87,234		87,234
		Yen Son	104,108		104,108
	Vinh Phuc	Binh Xuyen	11		11
		Phuc Yen township	1,136		1,136
		Tam Dao	14		14
	Yen Bai	Luc Yen	83,227		83,227
		Yen Binh	14,167		14,167
	VIET NAM - TOT		12,576,758	69,640	12,646,398
	All - TOT		144,706,012	62,505,127	284,401,139