



SOULIK-18 - Population Exposure Estimation based on bulletin n. 20

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 20-08-2018 at 08:46 UTC
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admin0	admin1	admin2	population			Total	
			60km/h	90km/h	120km/h		
CHINA	Heilongjiang Sheng	Harbin	2,488,292			2,488,292	
		Hegang	101,661			101,661	
		Jiamusi	1,721,685			1,721,685	
		Jixi	1,070,192			1,070,192	
		Mudanjiang	2,916,211			2,916,211	
		Qitaihe	834,401			834,401	
		Shuangyashan	558,131			558,131	
		Yichun	213,793			213,793	
		Jilin Sheng	Baishan	1,003,369	255,926	67,415	1,326,710
	Changchun		45,070			45,070	
	Jilin		3,354,434			3,354,434	
	Liaoyuan		255,606			255,606	
	Siping		4,404			4,404	
	Tonghua		2,384,501			2,384,501	
	Yanbian Korean		2,197,497	116,198	11,942	2,325,637	
	Liaoning Sheng	Benxi	285,638			285,638	
		Dandong	259,776			259,776	
		Fushun	111,707			111,707	
	CHINA - TOT		19,806,368	372,124	79,357	20,257,849	
	DEM PEOPLE'S REP OF KOREA	Chagang-do	Chosan	42,638			42,638
Huichon			135,207			135,207	
Hwaphyong			38,867	10,653		49,520	
Janggang			58,781	499		59,280	
Jasong			52,783			52,783	
Jonchon			117,685			117,685	
Junggang			43,774			43,774	
Kanggye			263,419			263,419	
Kopung			39,576			39,576	
Manpo			125,182			125,182	
Rangrim				23,164	12,521	35,685	
Ryongrim			22,576	19,214		41,790	
Sijung			49,916			49,916	
Songgan			101,517	438		101,955	
Songwon			28,937			28,937	
Tongsin			81,354	11,289		92,643	
Usi			37,050			37,050	
Wiwon			71,919			71,919	
Hamgyong-bukto			Chongjin	660,846			660,846
			Hoiryong	192,919			192,919
		Hwadae	66,675			66,675	
		Hwasong	123,160			123,160	
		Kilju	138,200			138,200	
		Kimchaek	214,868			214,868	
		Kyongsong	172,754			172,754	
		Musan	126,181	2,433		128,614	
		Myongchon	30,486			30,486	
		Onsong	104,468			104,468	
		Orang	139,513	69		139,582	
		Puryong	44,436			44,436	
		Puyun	6,808			6,808	
		Rajin	126,202			126,202	
		Saepjol	98,422			98,422	
		Sonbong	81,097			81,097	
		Undok	106,078			106,078	
Yonsa		7,075	35,479		42,554		
Hamgyong-namdo		Bujon			51,458	51,458	
		Danchon	295,813	76,949		372,762	

	Doksong		10,077	91,517	101,594
	Hamhung			837,912	837,912
	Hamju			113,705	113,705
	Hochon	3,495	75,468	8,232	87,195
	Hongwon			154,023	154,023
	Jangjin		6,559	62,571	69,130
	Jongpyong			189,817	189,817
	Kowon			64,745	64,745
	Kumho		6,164		6,164
	Kumya			221,229	221,229
	Pukchong		95,797	84,647	180,444
	Rakwon			57,951	57,951
	Riwon	17,078	119,291		136,369
	Sinhung			123,568	123,568
	Sinpo		32,361	163,250	195,611
	Sudong		76	96,170	96,246
	Yodok		6,057	37,139	43,196
	Yongwan			123,418	123,418
Hwanghae-bukto	Bongsan	222,736	28,032		250,768
	Hwangju	195,628			195,628
	Koksan			128,277	128,277
	Kumchon			81,613	81,613
	Pyongsan		36,424	101,043	137,467
	Rinsan		111,248		111,248
	Sariwon	204,352			204,352
	Singye		4,959	70,247	75,206
	Sinpyong		5,468	70,549	76,017
	Sohung		119,152		119,152
	Songrim	51,287			51,287
	Suan		47,912	24,484	72,396
	Tosan			72,735	72,735
	Unpa	78,709	16,104		94,813
	Yonsan		78,513	143	78,656
	Yontan	88,259	28,693		116,952
Hwanghae-namdo	Anak	131,942			131,942
	Baechon		42,571	126,990	169,561
	Bongchon		64,677	22,335	87,012
	Byoksong	112,125			112,125
	Chollima	98,176			98,176
	Chongdan		139,403		139,403
	Daean	49,922			49,922
	Haeju	275,995	12,758		288,753
	Hanggu	212,442			212,442
	Jaeryong	150,035			150,035
	Jangyon	88,063			88,063
	Kangryong	114,500	1,430		115,930
	Kangso	78,669			78,669
	Kwail	60,493			60,493
	Ongjin	147,912			147,912
	Ryonggang	62,837			62,837
	Ryongyon	90,101			90,101
	Samchon	78,958			78,958
	Sinchon	126,045			126,045
	Sinwon	80,726	11,823		92,549
	Songhwa	38,051			38,051
	Taetan	62,260			62,260
	Unchon	115,690			115,690
	Unryul	131,717			131,717
	Waudo	381,667			381,667
	Yonan		176,933	1,160	178,093
Kaesong-si	Jangpung			76,467	76,467
	Kaepung			64,131	64,131
	Kaesong			31,276	31,276
Kangwon-do	Panmun			233,900	233,900
	Anbyon			100,836	100,836
	Bopdong			33,041	33,041
	Changdo		8,643	46,550	55,193
	Cholwon			60,701	60,701
	Chonnae			109,402	109,402
	Hoiyang			58,619	58,619
	Ichon			60,636	60,636
	Kimhwa		3	52,320	52,323
	Kosan			104,218	104,218
Kosong		55,580	19	55,599	

		Kumgang		42,624	8,228	50,852
		Munchon			130,649	130,649
		Pangyo			55,128	55,128
		Pyongyang			101,145	101,145
		Sepo			68,205	68,205
		Tongchon		2,926	90,175	93,101
		Wonsan			369,193	369,193
	P'yongan-bukto	Bakchon	173,947			173,947
		Byokdong	39,660			39,660
		Changsong	31,900			31,900
		Cholsan	104,749			104,749
		Chonma	46,508			46,508
		Daegwan	74,863			74,863
		Dongrim	112,414			112,414
		Hyangsan	30,911			30,911
		Jongju	198,279			198,279
		Kujang	162,669			162,669
		Kusong	196,772			196,772
		Kwaksan	114,827			114,827
		Nyongbyon	127,093			127,093
		Pihyon	79,261			79,261
		Sakju	170,902			170,902
		Sonchon	131,069			131,069
		Taechon	129,775			129,775
		Tongchang	35,643			35,643
		Uiju	31,741			31,741
		Unjon	111,499			111,499
		Unsan	112,585			112,585
		Yomju	77,208			77,208
	P'yongan-namdo	Anju	172,620			172,620
		Bukchang	165,752	28,151		193,903
		Chongnam	43,747			43,747
		Daedong	114,857			114,857
		Daehung		25,880	8,494	34,374
		Dokchon	235,847	4,447		240,294
		Dukjang	13,218			13,218
		Hoichang		94,459	880	95,339
		Jungsan	140,493			140,493
		Kaechon	322,330			322,330
		Maengsan		48,534		48,534
		Mundok	200,525			200,525
		Nyongwon	3,941	27,888	2	31,831
		Onchon	160,112			160,112
		Pyongsong	267,546			267,546
		Pyongwon	184,472			184,472
		Sinyang		57,312	15	57,327
		Songchan	100,105	79,014		179,119
		Sukchon	188,300			188,300
		Sunchon	327,064			327,064
		Unsan	212,944	5,299		218,243
		Yangdok		40,618	24,776	65,394
	P'yongyang-si	Chunghwa	94,620			94,620
		Kangdong	168,429	66,340		234,769
		Kangnam	59,281			59,281
		Pyongyang	2,968,425			2,968,425
		Sangwon	102,155	51,322		153,477
		Unjong	70,302			70,302
	Yanggang-do	Baekam	1,050	59,255	6,087	66,392
		Bochon		287	32,244	32,531
		Hyesan			129,165	129,165
		Kapsan		7,081	60,255	67,336
		Kimhyonggwon			41,989	41,989
		Kimhyongjik	4,433	43,540	9,805	57,778
		Kimjongsuk		3,243	45,584	48,827
		Phungso			47,208	47,208
		Samjiyon			34,731	34,731
		Samsu			149,510	149,510
		Taehongdan		33,861	6,474	40,335
		Unhung		12,076	45,613	57,689
DEM PEOPLE'S REP OF KOREA - TOT			16,213,895	2,256,520	5,691,120	24,161,535
JAPAN	Hukuoka	Hukuokasi_Nisiku				
		Maebarusi				
		Nizyoomati	6,747			6,747
		Simamati	3,629			3,629

Kagosima	Airatyoo	49,058			49,058
	Akunesi	16,319			16,319
	Amagityoo	5,570			5,570
	Ariaketyoo	11,662			11,662
	Azumatyoo	5,571			5,571
	Boonotutyoo	3,268			3,268
	Eetyoo	13,069			13,069
	Hayatotyoo	36,907			36,907
	Higasiitikyoo	11,844			11,844
	Higasikusiratyoo	5,798			5,798
	Hisikarityoo	8,302			8,302
	Hiwakityoo	7,546			7,546
	Hiyosityoo	3,400			3,400
	Hukiagetyoo	8,289			8,289
	Hukuyamatyoo	5,256			5,256
	Ibusukisi	27,954			27,954
	Irikityoo	5,218			5,218
	Isentyoo	6,645			6,645
	Itikityoo	6,534			6,534
	Izumisi	30,611			30,611
	Izyuuintyoo	24,445			24,445
	Kagosimasi	556,033			556,033
	Kaimontyoo	5,368			5,368
	Kamikosikimura	1,338			1,338
	Kamiyakutyoo		4,885		4,885
	Kamootyoo	9,328			9,328
	Kanoyasi	80,058			80,058
	Kasarityoo			4,984	4,984
	Kasasatyoo	2,084			2,084
	Kasedasi	21,017			21,017
	Kasimamura	197			197
	Kawanabetyoo	13,734			13,734
	Kazikityoo	22,795			22,795
	Kedoointyoo	3,723			3,723
	Kihokutyoo	3,817			3,817
	Kiiretyoo	10,717			10,717
	Kikaityoo			5,734	5,734
	Kinpootyoo	8,180			8,180
	Kirisimatyoo	4,862			4,862
	Kokubusi	57,391			57,391
	Kooriyamatyoo	6,581			6,581
	Kooyamatyoo	13,451			13,451
	Kurinotyoo	6,982			6,982
	Kusikinosi	23,001			23,001
	Kusiratyoo	13,560			13,560
	Makizonotyoo	7,948			7,948
Makurazakisi	23,538			23,538	
Matumototyoo	12,234			12,234	
Matuyamatyoo	3,828			3,828	
Minamitanetyoo	4,782	557		5,339	
Misimamura		174		174	
Miyanozyootyoo	15,537			15,537	
Mizobetyoo	9,398			9,398	
Nagasimatyoo	4,075			4,075	
Nakatanetyoo	7,749			7,749	
Nazesi			32,591	32,591	
Nezimetyoo	3,754			3,754	
Nisinoomotesi	11,664			11,664	
Nodatyoo	4,492			4,492	
Ookutisi	20,671			20,671	
Oonezimetyoo	2,801			2,801	
Oooratyoo	1,647			1,647	
Oosakityoo	14,031			14,031	
Oosumityoo	13,001			13,001	
Sakurazimatyoo	1,517			1,517	
Satatyoo	2,232			2,232	
Satomura	725			725	
Satumatyoo	3,660			3,660	
Sendaisi	72,405			72,405	
Setootityoo		9,194	819	10,013	
Sibusityoo	16,962			16,962	
Simokosikison	1,826			1,826	
Sueyosityoo	18,211			18,211	
Sumiyoozon		3	1,606	1,609	

		Takaonotyoo	12,716			12,716
		Takarabetyoo	7,947			7,947
		Tarumizusi	9,513			9,513
		Tasirottyoo	2,392			2,392
		Tatugootyoo			5,324	5,324
		Tinatyoo	6,703			6,703
		Tirantyyoo	11,969			11,969
		Tokunosimatyoo	11,404	439		11,843
		Toogootyoo	4,045			4,045
		Tosimamura			404	404
		Turudatyoo	4,771			4,771
		Ukenson		3		3
		Utinooratyyoo	3,346			3,346
		Wadomarityyoo	6,456			6,456
		Yakutyoo		5,865		5,865
		Yamagawatyyoo	7,686			7,686
		Yamatoson			1,095	1,095
		Yokogawatyyoo	4,316			4,316
		Yorontyyoo	4,971			4,971
		Yosidatyoo	9,174			9,174
		Yosimatutyoo	4,593			4,593
	Kumamoto	Amakusamati	2,957			2,957
		Ariakemati	3,333			3,333
		Asikitamati	13,958			13,958
		Gosyooramati	882			882
		Himedomati	2,418			2,418
		Hitoyosisi	36,215			36,215
		Hondosi	38,682			38,682
		Hukadamura	1,846			1,846
		Itukimura	6			6
		Ituwamati	6,910			6,910
		Kawauramati	4,939			4,939
		Kumamura	3,737			3,737
		Kuratakemati	2,651			2,651
		Matusimamati	5,438			5,438
		Mendamati	6,106			6,106
		Minamatasi	22,102			22,102
		Misumimati	6,521			6,521
		Nisikimati	11,134			11,134
		Okaharumura				
		Ooyanomati	12,841			12,841
		Reehokumati	4,747			4,747
		Ryuugatakemati	2,461			2,461
		Sagaramura	4,276			4,276
		Sakamotomura	3,665			3,665
		Sentyoomati	669			669
		Sinwamati	2,965			2,965
		Suemura				
		Sumotomati	2,397			2,397
		Tanooramati	3,704			3,704
		Tunagimati	3,160			3,160
		Uemura	4,498			4,498
		Usibukasi	9,558			9,558
		Utosi				
	Yamaemura	3,614			3,614	
	Yatusirosi	94,437			94,437	
	Miyazaki	Ebinosi	21,225			21,225
		Kitagootyoo	4,348			4,348
		Kiyotaketyoo	10			10
		Kobayasisi	37,689			37,689
		Kusimasi	19,888			19,888
		Mimatatyoo	23,573			23,573
		Miyakonozyoosi	136,516			136,516
		Miyazakisi	16			16
		Nangootyoo	9,559			9,559
		Nitinansi	42,844			42,844
		Nozirityoo	6,145			6,145
		Sukison	1,134			1,134
		Takaharutyoo	11,238			11,238
		Takaokatyoo	67			67
		Takazakityoo	8,310			8,310
		Takazyootyoo	10,970			10,970
		Tanotyoo	6,810			6,810
	Yamadatyoo	6,506			6,506	

Nagasaki	Yamanokutityoo	6,317		6,317
	Adumatyoo	4,030		4,030
	Ainomati	5,406		5,406
	Ariaketyoo	3,719		3,719
	Arietyoo	8,348		8,348
	Arikawatyoo	3,690		3,690
	Asibetyoo	6,153		6,153
	Emukaetyoo	5,433		5,433
	Goonooratyoo	10,394		10,394
	Hasamityoo	14,703		14,703
	Higasisonogityoo	8,366		8,366
	Hiradosi	16,637		16,637
	Hukaetyoo	8,272		8,272
	Hukuesi	21,437		21,437
	Hukusimatyoo	2,651		2,651
	Hututyoo	4,282		4,282
	Iduharamati	10,714		10,714
	Imorityoo	6,908		6,908
	Ikitukityoo	5,451		5,451
	Ioozimatyoo	349		349
	Isahayasi	93,185		93,185
	Isidatyoo	3,915		3,915
	Kamiagatatyoo	3,201		3,201
	Kamigotootyoo	4,799		4,799
	Kamitusimatyoo	4,469		4,469
	Katumototyoo	3,707		3,707
	Kawatanatyoo	14,564		14,564
	Kinkaityoo	11,383		11,383
	Kisikutyoo	3,518	3	3,521
	Kitaarimatyoo	2,153		2,153
	Konagaityoo	5,184		5,184
	Kooyagityoo	3,878		3,878
	Kosazatyoo	5,460		5,460
	Kunimityoo	7,102		7,102
	Kutinotutyoo	3,442		3,442
	Matuurasi	16,576		16,576
	Miirakutyoo	1,403	983	2,386
	Minamiarimatyoo	7,806		7,806
	Minamikusiyamatyoo	8,239		8,239
	Minetyoo	2,489		2,489
	Mitusimatyoo	6,259		6,259
	Mizuhotyoo	2,634		2,634
	Moriyamatyoo	5,186		5,186
	Nagasaki	377,022		377,022
	Nagayotyoo	33,023		33,023
	Naraotyoo	2,027		2,027
	Narutyoo	2,183		2,183
Nisiarietyoo	7,166		7,166	
Nomozakityoo	3,668		3,668	
Obamatyoo	4,171		4,171	
Odikatyoo	2,313		2,313	
Oomurasi	85,632		85,632	
Oosetotyoo	4,979		4,979	
Oosimamura	2,117		2,117	
Oosimatyoo	4,336		4,336	
Saikaityoo	5,854		5,854	
Sakitotyoo	796		796	
Sanwatyoo	7,930		7,930	
Sasebosi	226,820		226,820	
Sazatyoo	13,305		13,305	
Seehityoo	7,391		7,391	
Setibarutyoo	3,456		3,456	
Sikamatityoo	4,194		4,194	
Simabarasi	33,569		33,569	
Sin'uonometryoo	2,989		2,989	
Sotometryoo	3,630		3,630	
Tabiratyoo	6,838		6,838	
Takakityoo	9,355		9,355	
Takasimatyoo	2,108		2,108	
Tamanooratyoo	64	1,292	1,356	
Taramityoo	10,027		10,027	
Tidiwatyoo	4,989		4,989	
Togitutyoo	18,660		18,660	
Tomietyoo	4,730	95	4,825	

		Toyotamatyoo	4,617			4,617
		Ukumati	2,654			2,654
		Wakamatutyoo	2,377			2,377
		Yosiityoo	4,834			4,834
	Okinawa	Gusikawason				
		Higasison	185			185
		Iheyason	1,137			1,137
		Izenason	1,303			1,303
		Kitadaitooson	395			395
		Kunigamison	3,857			3,857
		Minamidaitooson	1,171			1,171
		Oogimison	397			397
	Saga	Ariaketyoo	8,210			8,210
		Aritamati	12,383			12,383
		Asikarityoo	4,940			4,940
		Genkaityoo	6,472			6,472
		Hamatamatyoo	11,700			11,700
		Hizentyoo	5,924			5,924
		Hukudomimati	4,764			4,764
		Huzityoo	588			588
		Imarisi	54,042			54,042
		Karatusi	71,847			71,847
		Kasimasi	29,857			29,857
		Kitagatamati	11,362			11,362
		Kitahatamura	3,947			3,947
		Koohokumati	9,647			9,647
		Kyuuragimati	4,204			4,204
		Mikatukityoo	2,057			2,057
		Nanayamamura	1,996			1,996
		Nisiaritayoo	8,864			8,864
		Ogimati	10,675			10,675
		Oomatityoo	6,360			6,360
		Ootityoo	7,033			7,033
		Siotatyoo	12,536			12,536
		Siroisityoo	12,951			12,951
		Takeosi	31,776			31,776
		Takusi	21,263			21,263
		Taratyoo	8,769			8,769
		Tinzeetyoo	6,478			6,478
		Uresinomati	16,266			16,266
		Usidutyoo	7,011			7,011
		Yamautityoo	7,606			7,606
		Yobukotyoo	1,482			1,482
	Tookyoo	Ogasawaramura		469		469
JAPAN - TOT			3,923,315	23,962	52,557	3,999,834
REPUBLIC OF KOREA	Cheju-do	---			514,062	514,062
	Chollabuk-do	---		49,497	1,737,241	1,786,738
	Chollanam-do	---	377	175,552	2,425,524	2,601,453
	Chungchongbuk-do	---	171,786	1,345,345	205,458	1,722,589
	Chungchongnam-do	---		100,596	1,926,901	2,027,497
	Inchon	---			2,412,765	2,412,765
	Kang-won-do	---	729,804	571,094	241,177	1,542,075
	Kwangju	---			531,734	531,734
	Kyonggi-do	---	4,576	77,657	11,707,099	11,789,332
	Kyongsangbuk-do	---	2,720,140	3,890		2,724,030
	Kyongsangnam-do	---	4,095,175	596,825		4,692,000
	Pusan	---	2,820,894			2,820,894
	Seoul	---			9,514,125	9,514,125
	Taegu	---	2,315,389			2,315,389
	Taejon	---		886,324	375,669	1,261,993
REPUBLIC OF KOREA - TOT			12,858,141	3,806,780	31,591,755	48,256,676
RUSSIAN FEDERATION	Primorskiy Kray	---	18,875			18,875
RUSSIAN FEDERATION - TOT			18,875			18,875
All - TOT			52,820,594	6,459,386	37,414,789	96,694,769