

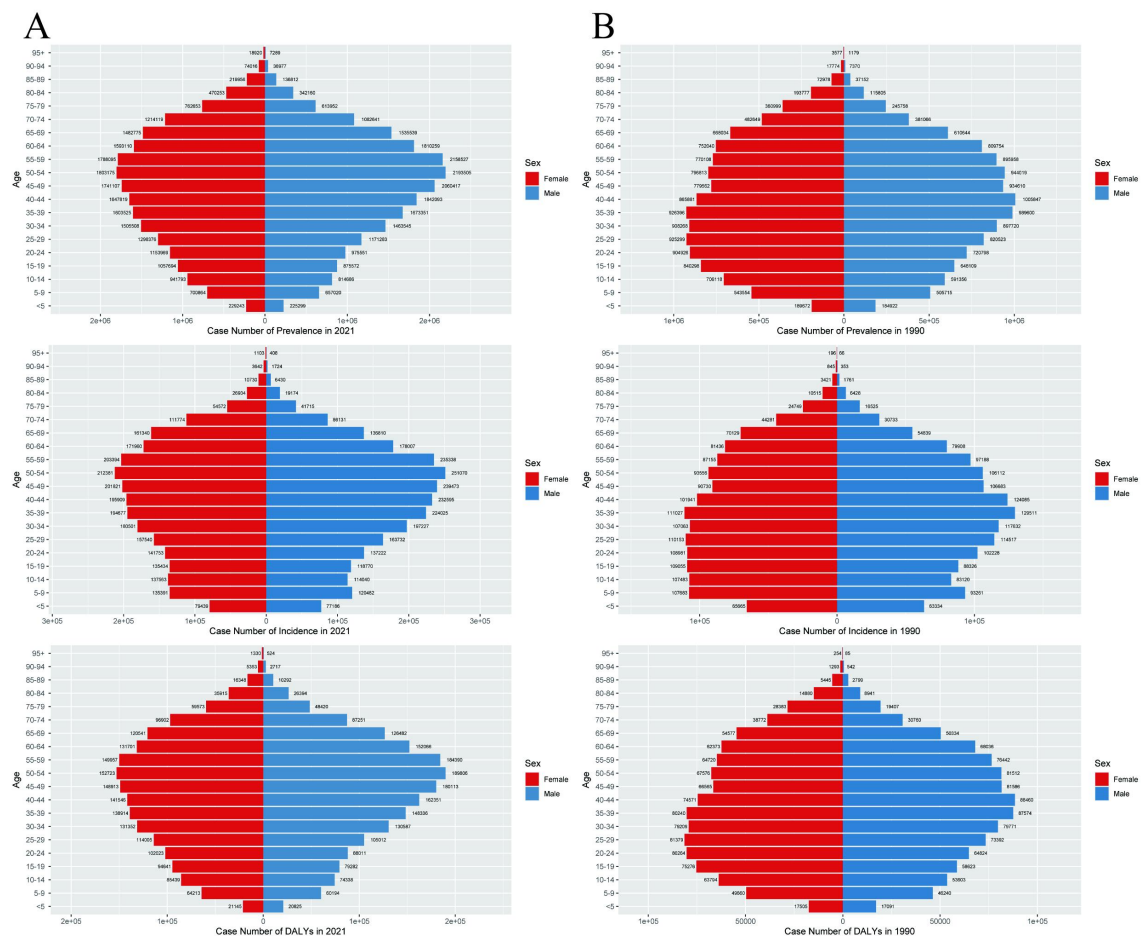


Figure S1. Cases of incidence, number of disease, and number of DALYs for psoriasis, stratified by age. (A) 2021; (B) 1990. Abbreviations: DALYs: Disability-adjusted life-years.

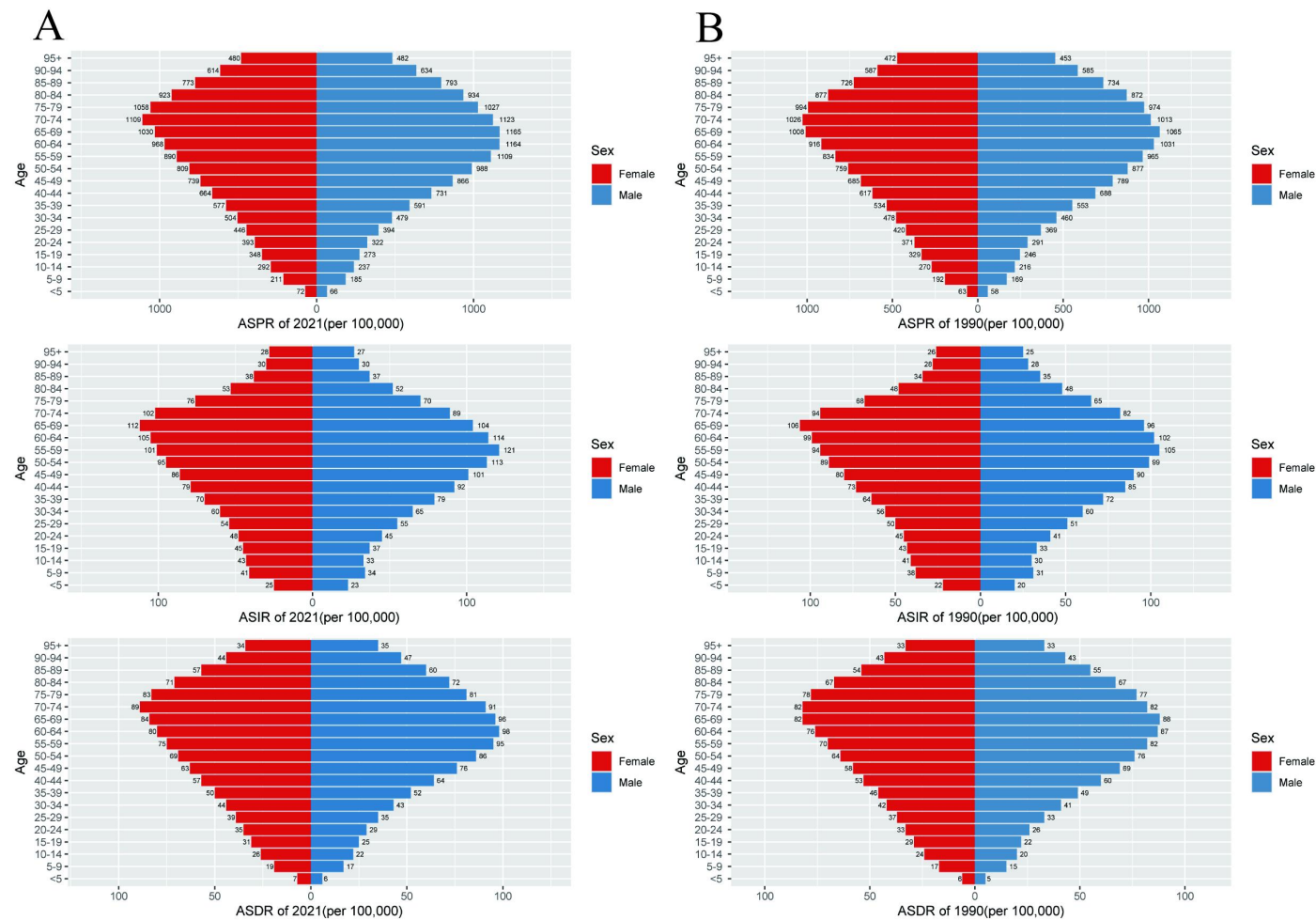


Figure S2. ASPR, ASIR, and ASDR for psoriasis stratified by age.(A) 2021; (B) 1990.Abbreviations: ASIR: Age-standardized incidence rate; ASPR: Age-standardized prevalence rate; ASDR: Age-standardized disability-adjusted life years rate

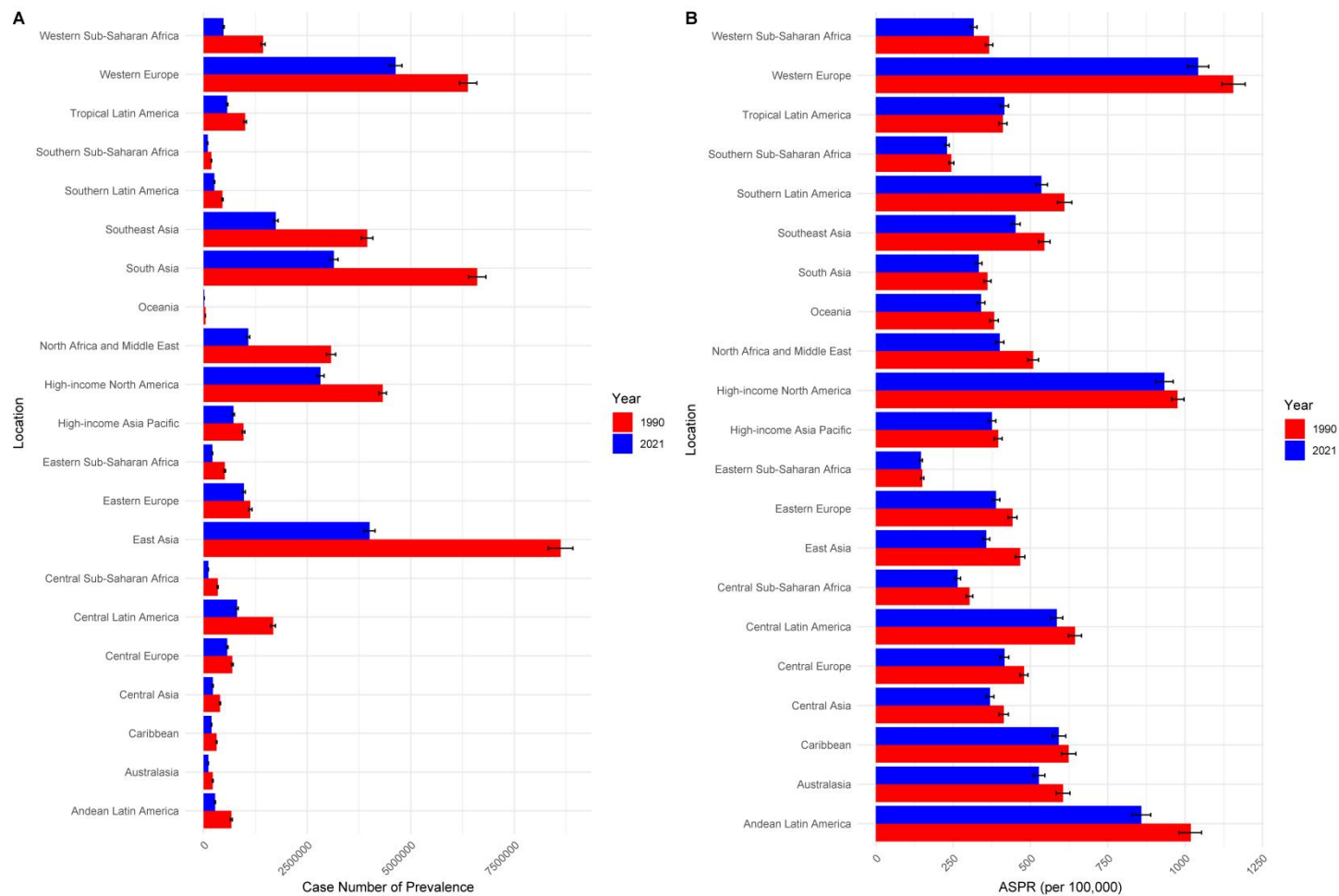


Figure S3. Prevalence of psoriasis stratified by region in 1990 and 2021. (A) Regional prevalence cases; (B) Regional prevalence rates. Abbreviations: ASIR: Age-standardized prevalence rate.

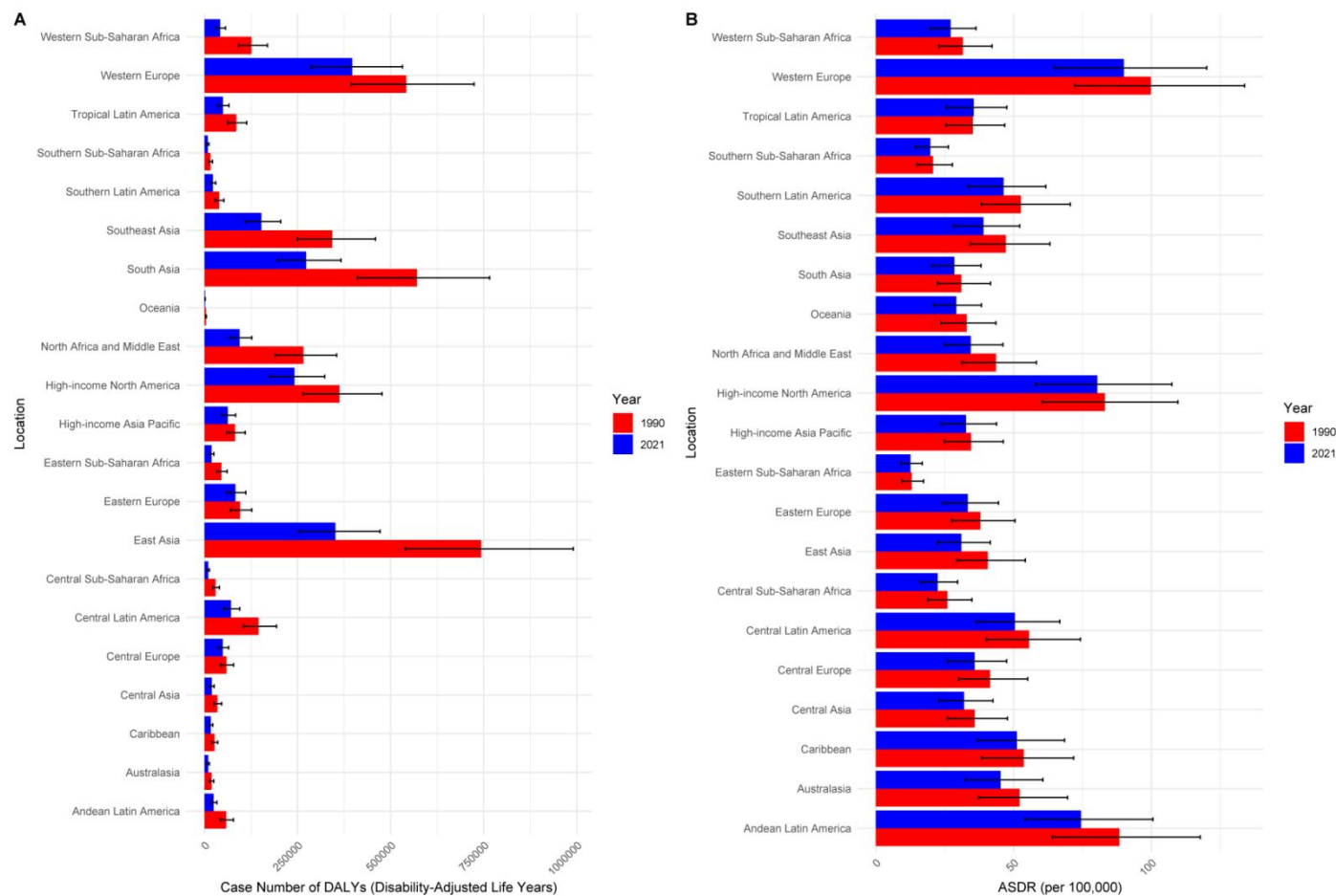


Figure S4. DALYs of psoriasis stratified by region in 1990 and 2021. (A) Regional DALYs cases; (B) Regional DALYs rates. Abbreviations: ASPR: Age-standardized prevalence rate. DALYs: Disability-adjusted life-years.

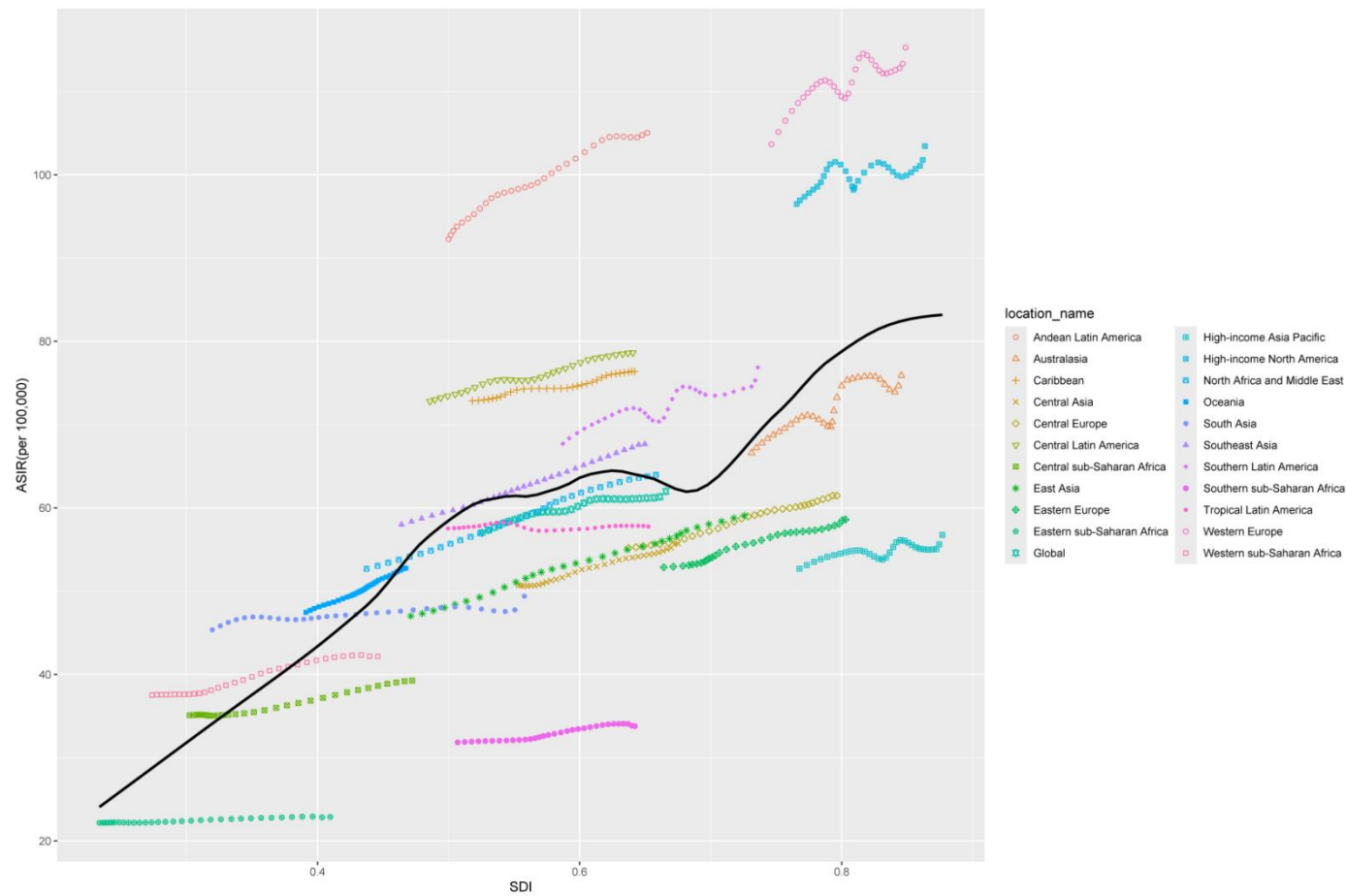


Figure S5. Association between ASIR and SDI in the GBD region, 1990-2019. Abbreviations: GBD, Global Burden of disease; ASIR, Age-standardized incidence; SDI: Sociodemographic Index.

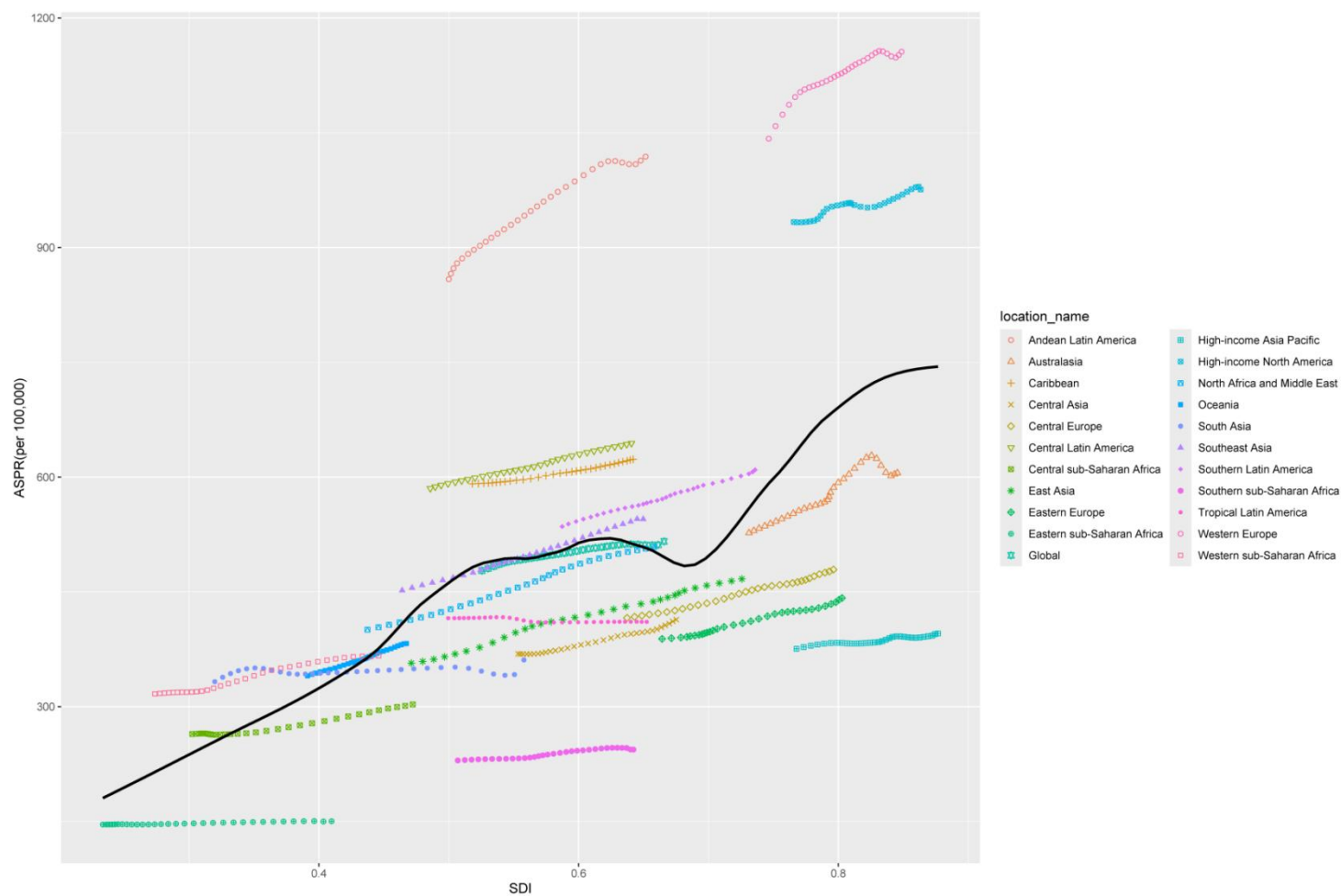


Figure S6. Association between ASPR and SDI in the GBD region, 1990-2019. Abbreviations: GBD, Global Burden of disease; ASPR, Age-standardized prevalence;SDI: Sociodemographic Index.

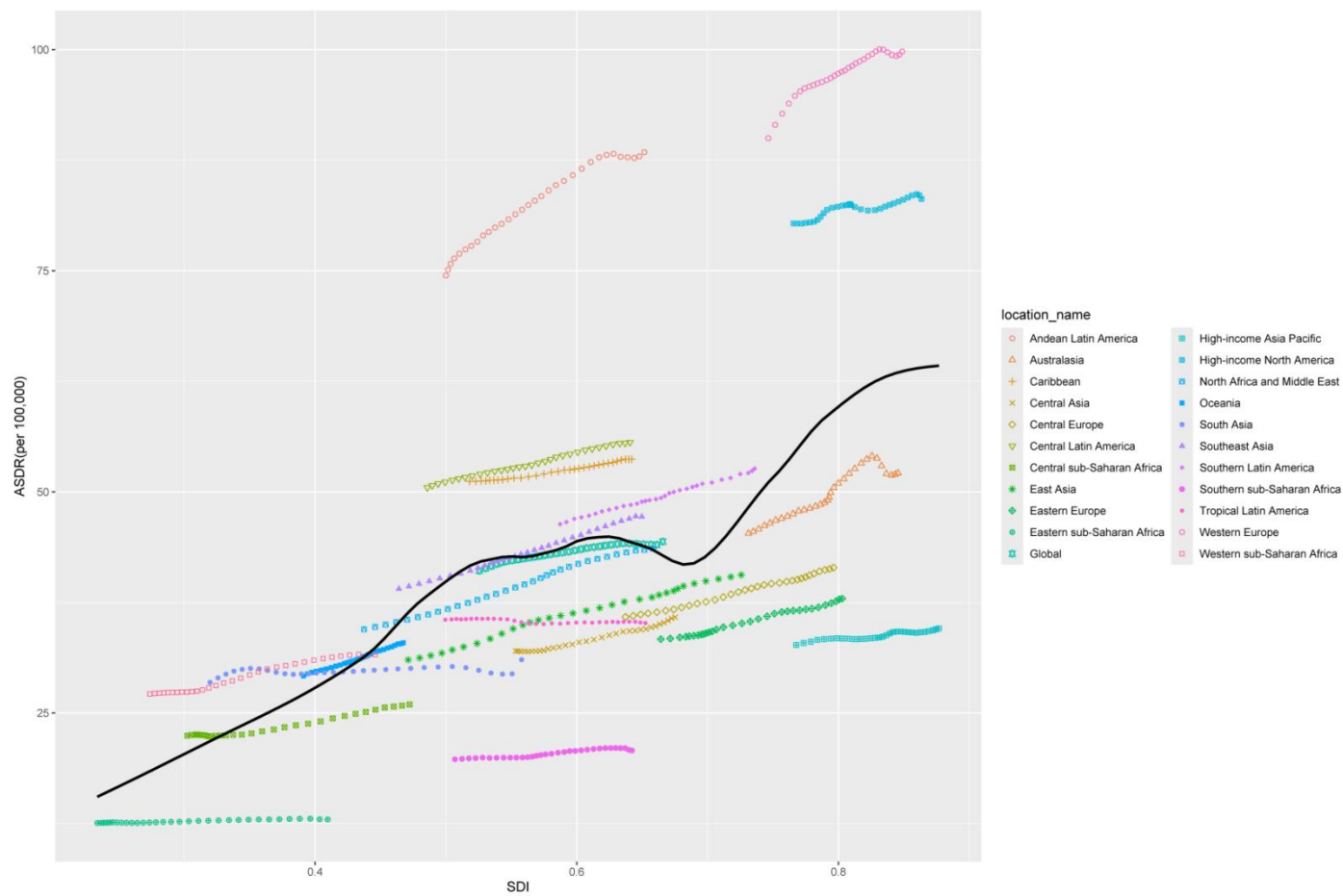


Figure S7. Association between ASDR and SDI in the GBD region, 1990-2019. Abbreviations: GBD, Global Burden of disease; ASDR, Age-standardized disability-adjusted life years rate; SDI: Sociodemographic Index.

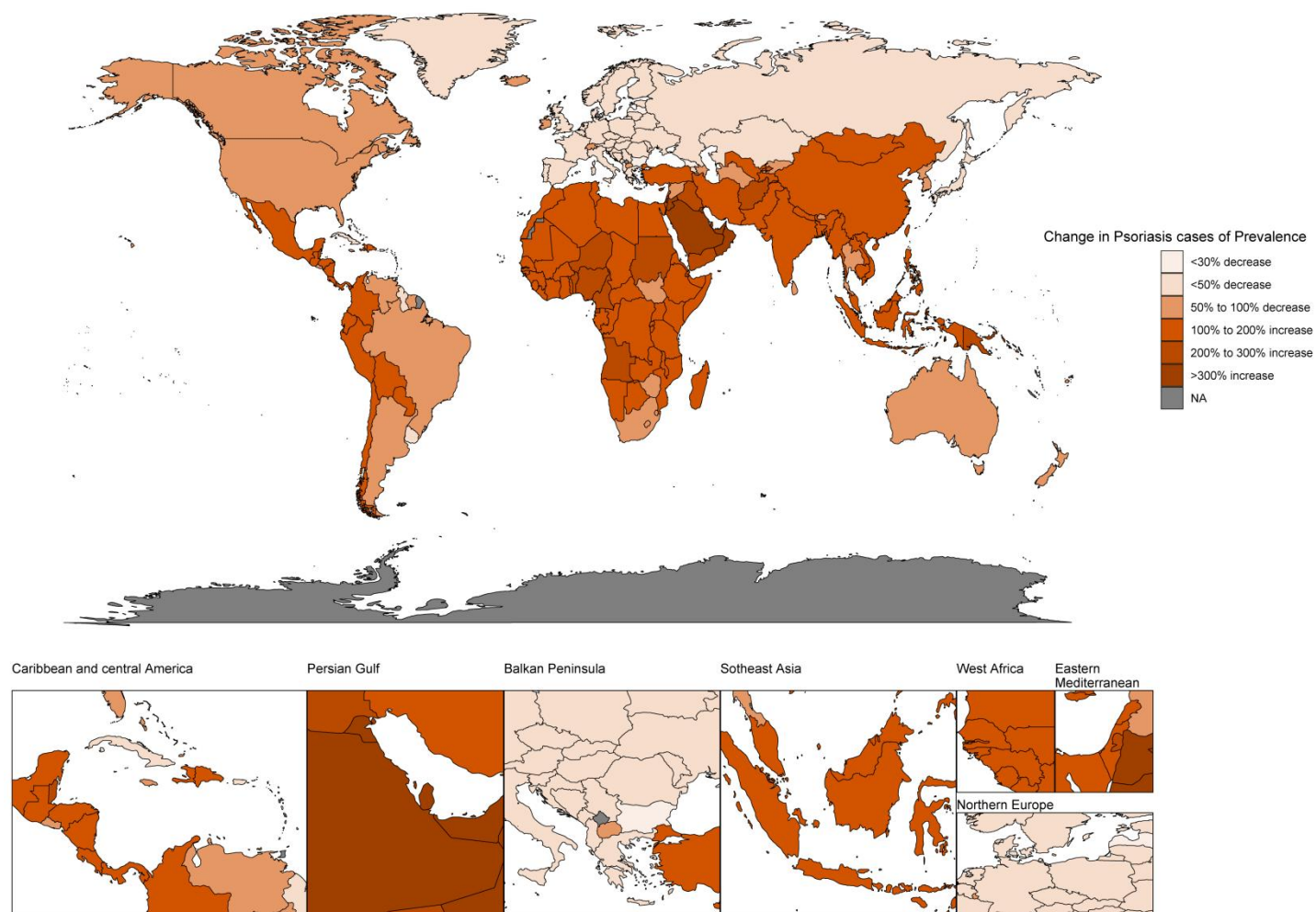


Figure S8. Change in Psoriasis cases of Prevalence in 2021.

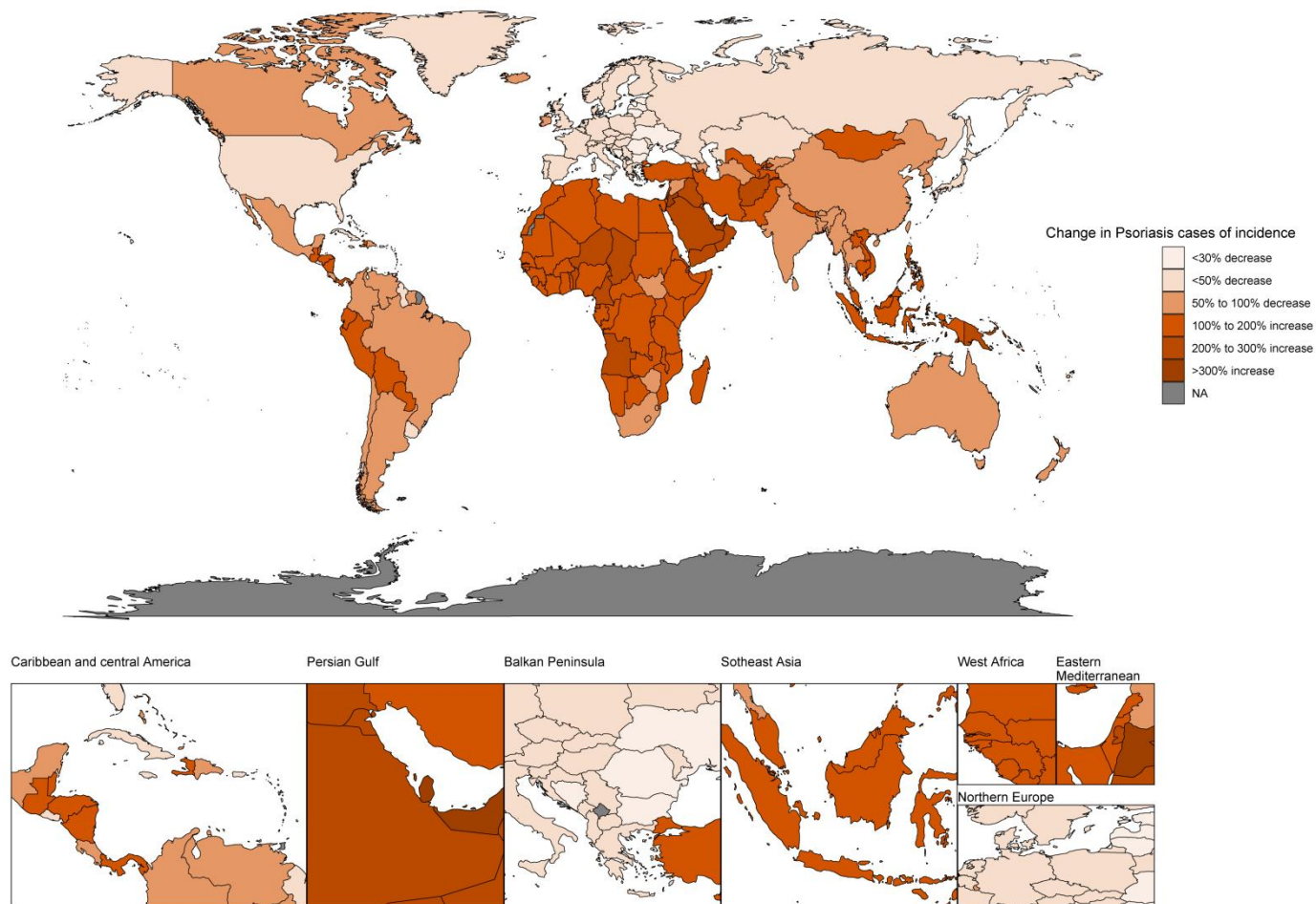


Figure S9. Change in Psoriasis cases of incidence in 2021.

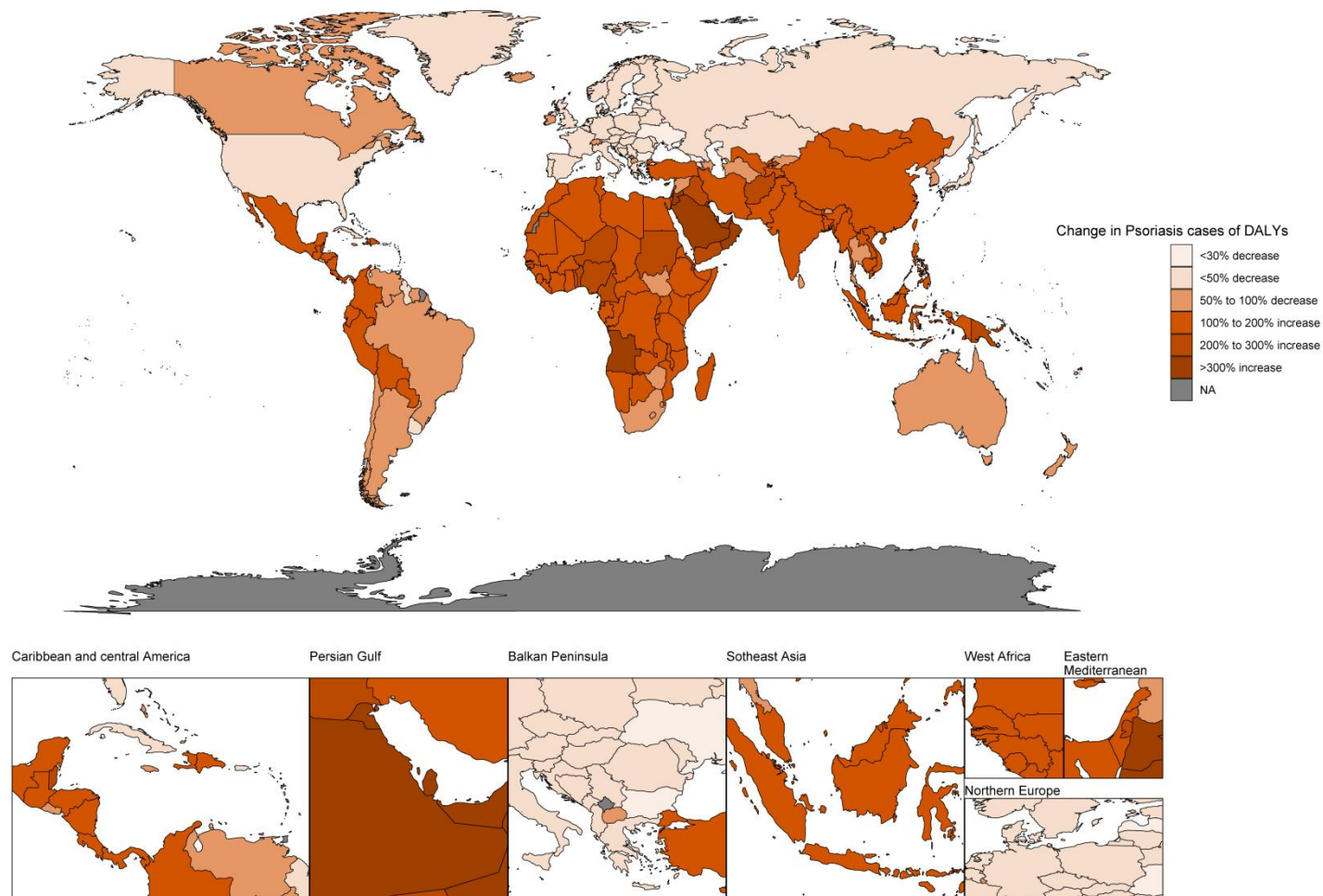


Figure S10. Change in Psoriasis cases of DALYs in 2021. Abbreviations: DALYs: Disability-adjusted life-years.

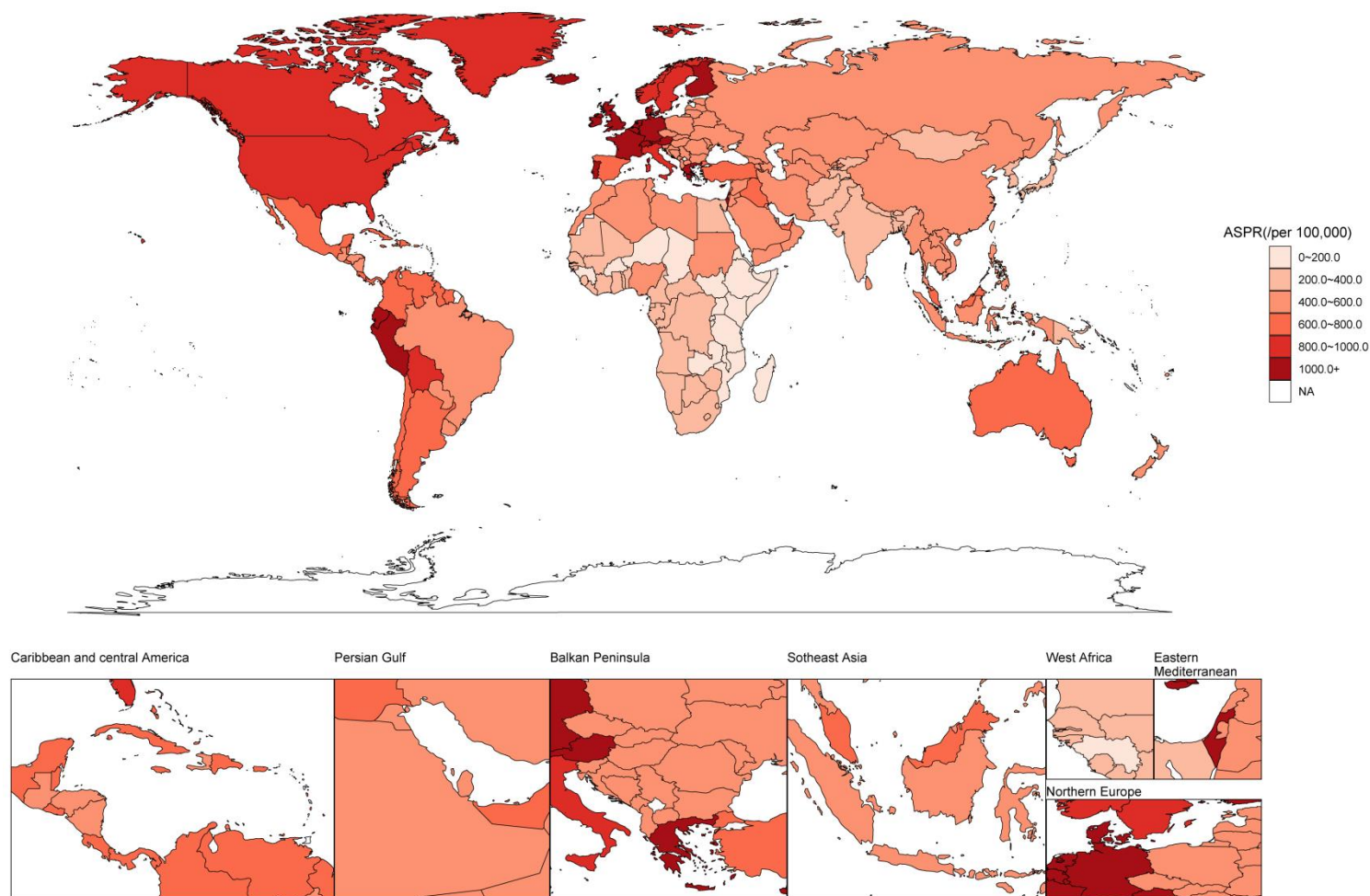


Figure S11. Global psoriasis ASIR distribution map. Abbreviations: ASPR: Age-standardized prevalence rate

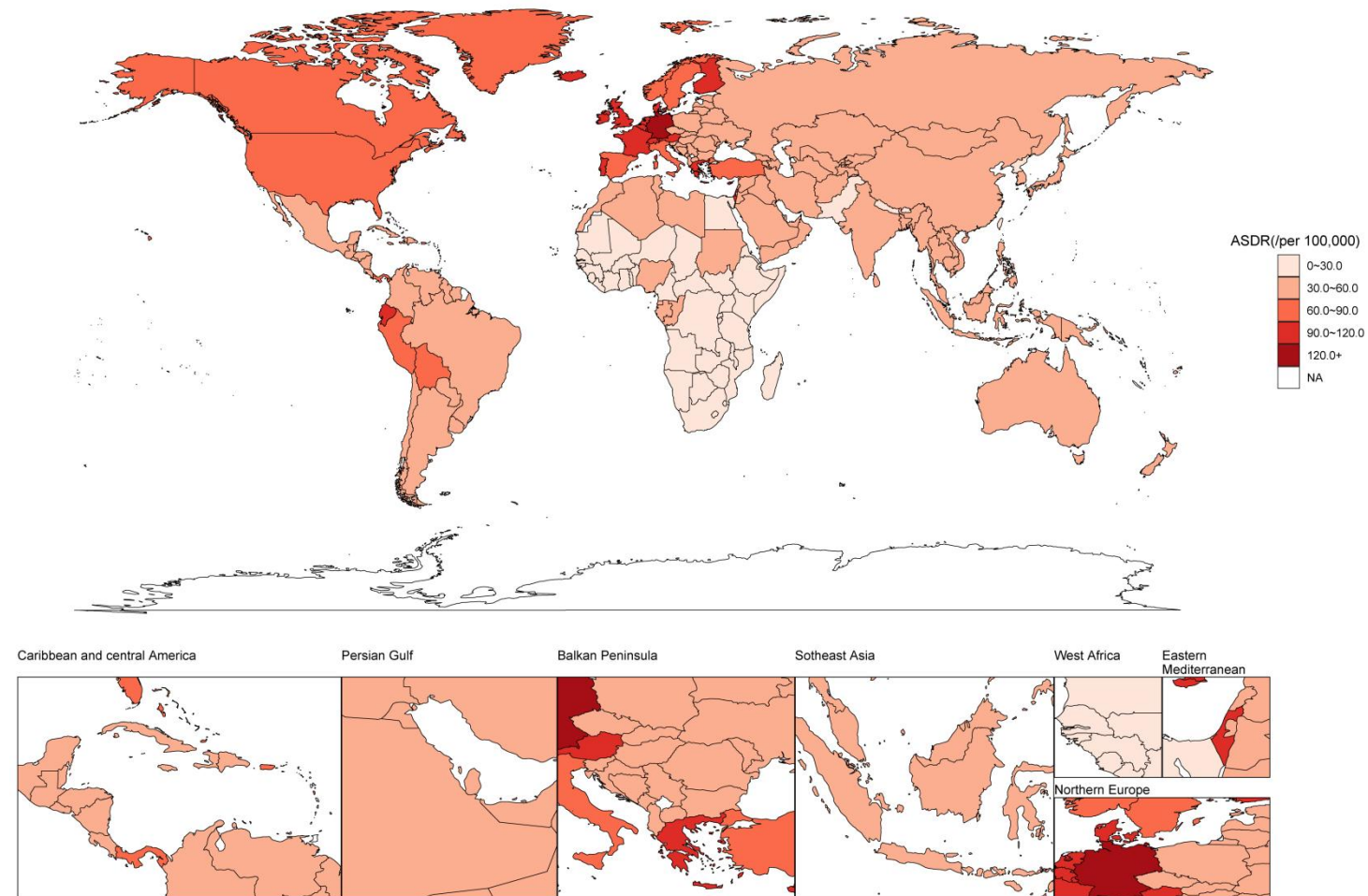


Figure S12. Global psoriasis ASDR distribution map. Abbreviations: ASDR, Age-standardized disability-adjusted life years rate.

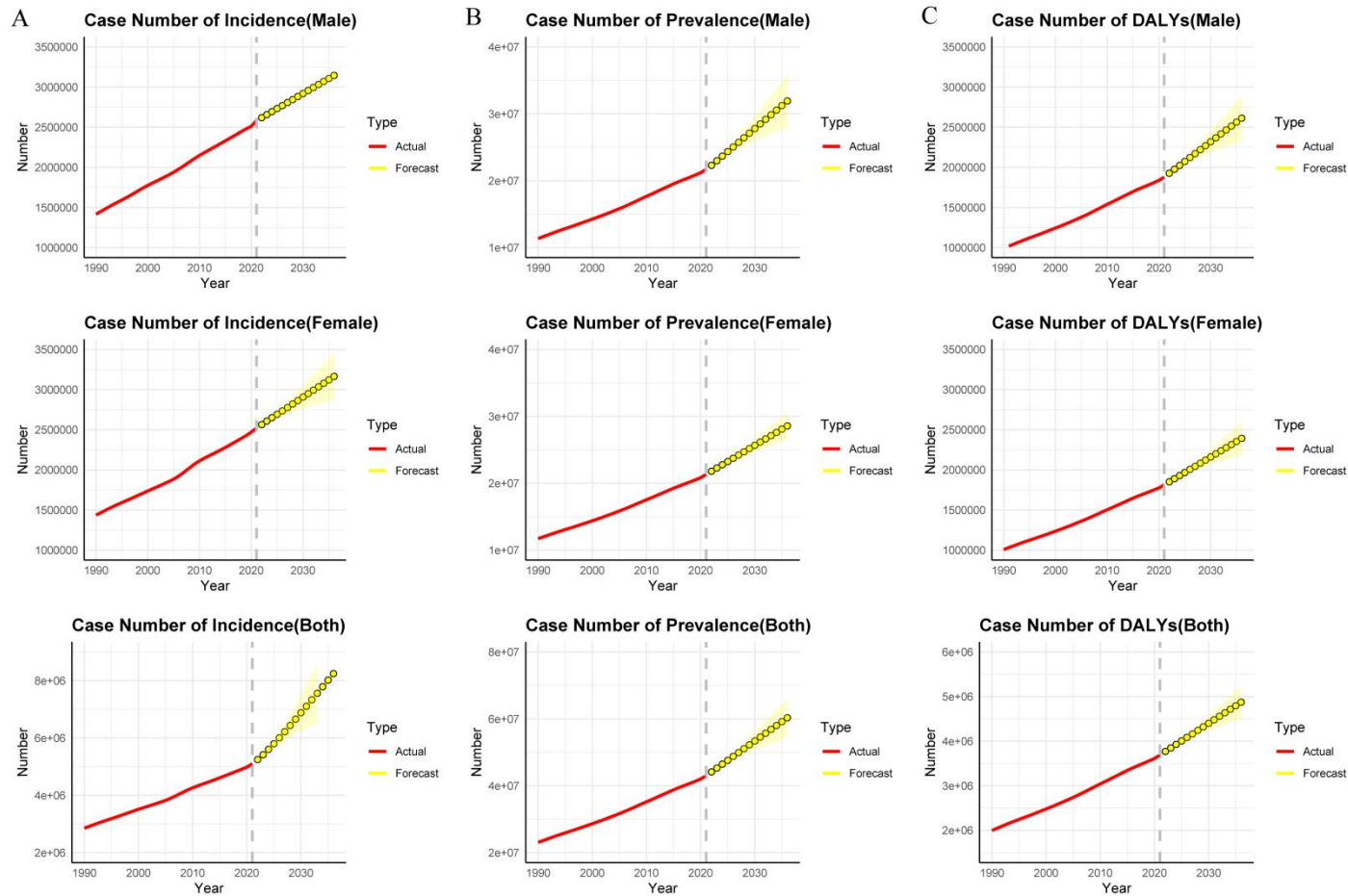


Figure S13. ARIMA predictive model stratified by sex to predict psoriasis disease burden over the next 15 years. (A) Case Number of Incidence; (B) Case Number of Prevalence; (C) Case Number of DALYs. Abbreviations: DALYs: Disability-adjusted life-years.

Table S1. Severity levels for psoriasis and their corresponding disability weights (DW).

Sequela	Severity level	Lay description	DW (95% CI)
Mild psoriasis	Disfigurement, level 1 with itch/pain	The individual has a slight, visible physical deformity that is sometimes sore or itchy. Others notice the deformity, which causes some worry and discomfort.	0.027(0.015-0.042)
Moderate psoriasis	Disfigurement, level 2, with itch/pain	The individual has a visible physical deformity that is sore and itchy. Other people stare and comment, which causes the person to worry. The person has trouble sleeping and concentrating.	0.188(0.124-0.267)
Severe psoriasis	Disfigurement, level 3 with itch/pain	The individual has an obvious physical deformity that is very painful and itchy. The physical deformity makes others uncomfortable, which causes the person to avoid social contact, feel worried, sleep poorly, and think about suicide.	0.576(0.401-0.731)

Table S2.GATHER checklist for new global health estimate reports.

#	Checklist item	Section / Paragraph /Interpretation
Objectives and funding		
1	Define the indicators, populations, and time periods for which estimates were made.	Methods / Methods /Data acquisition and download/Population
2	List the funding sources for the work.	Funding sources
Data Inputs		
<i>For all data inputs from multiple sources that are synthesized as part of the study:</i>		
3	Describe how the data were identified and how the data were accessed.	Methods / Data acquisition and download / The details have been published previously
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	Methods / Data acquisition and download / The details have been published previously
5	Provide information on all included data sources and their main characteristics.For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant.	From https://ghdx.healthdata.org/
6	Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5).	Methods / Data acquisition and download / The details have been published previously
<i>For data inputs that contribute to the analysis but were not synthesized as part of the study:</i>		
7	Describe and give sources for any other data inputs.	From https://ghdx.healthdata.org/

<i>For all data inputs:</i>		
8	Provide all data inputs in a file format from which data can be efficiently extracted (e.g., a spreadsheet as opposed to a PDF), including all relevant meta- data listed in item 5. For any data inputs that cannot be shared due to ethical or legal reasons, such as third-party ownership, provide a contact name or the name of the institution that retains the right to the data.	From https://ghdx.healthdata.org/
Data analysis		
9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	From: http://ghdx.healthdata.org/gbd-2021/code/ nonfatal-1
10	Provide a detailed description of all steps of the analysis, including mathematical formulae. This description should cover, as relevant, data cleaning, data pre-processing, data adjustments and weighting of data sources, and mathematical or statistical model(s).	We have described this in the Method section and details are given in previous studies.
11	Describe how candidate models were evaluated and how the final model(s) were selected.	We have described this in the Method section and details are given in previous studies.
12	Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.	We have described this in the Method section and details are given in previous studies.

13	Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.	Methods / Statistical analysis
14	State how analytic or statistical source code used to generate estimates can be accessed.	Methods / Statistical analysis
Results and Discussion		
15	Provide published estimates in a file format from which data can be efficiently extracted.	From https://ghdx.healthdata.org/
16	Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).	From https://ghdx.healthdata.org/
17	Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.	Discussion / Paragraphs 2-5
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.	Discussion / Paragraphs 6

Table S3. ASPR and AAPC of psoriasis at global and regional level .

Location	Prevalence(95% UI)				
	Cases in 1990 (million)	ASPR in 1990 (per 100,000)	Cases in 2021 (million)	ASPR in 2021 (per 100,000)	AAPC (95% CI)
Global	23056630.5 (22317288.3-23805091)	477.7(462.1-492.7)	42983445.7(41654456.5-44313231.3)	516.0(500.2-531.6)	0.243(0.227-0.258)
Gender:					
Male	11347906.9 (10979198.3-11718562)	478.9(463.0-494.6)	21676475.7(20994940.6-22381305.2)	524.6(508.4-541.1)	0.290(0.270-0.311)
Female	11708723.5(11334934-12082894.5)	476.8(461.7-491.8)	21306970(20652688.5-21941354.5)	508.4(492.9-523.7)	0.203(0.186-0.219)
SDI level:					
High	7678017.4 (7432351.4-7920842.8)	792.5 (767.7-817.3)	11527142.7 (11220648.2-11846449.3)	852.3 (830.1-875.3)	0.233(0.221-0.246)
High-middle	4838955.7 (4675111.6-4998754.7)	452.4 (437.5-467.1)	8754846.4 (8467374.4-9050801.3)	549.2 (531.7-567.1)	0.63(0.619-0.641)
Middle	6247152.8 (6040105.5-6457366.8)	414.9 (401.8-427.9)	13260805.9 (12813804.4-13691416.7)	499.3 (483.2-514.9)	0.593(0.584-0.602)
Low-middle	3287357.3 (3184246.2-3395064.6)	336.7 (325.9-346.8)	6923169.4 (6696094.7-7147195.1)	377.2 (365-389.1)	0.349(0.315-0.383)
Low	981297.1 (949017.5-1013691.2)	247.7 (239.9-255.6)	2480276.0 (2402704.9-2562038.8)	268.9 (260.5-277.4)	0.250(0.211-0.289)
Region					
High-income Asia Pacific	720462.5 (696722.3-744388.0)	375.6 (363.3-388.0)	962513.5 (931719.7-993034.9)	395.6 (383.1-408.0)	0.162(0.143-0.181)
High-income North	2819864.3	933.2 (905.5-961.7)	4322008.2	975.7 (956.5-996.6)	0.148(0.135-0.16)

America	(2735537.1-2910863.2)		(4229370.9-4413971.7)		2)
Western Europe	4633922.5 (4481455.8-4789029.4)	1042.2 (1007.8-1076.7)	6379167.1 (6182112.2-6597001.2)	1155.9 (1119.4-1194.5)	0.334(0.318-0.35)
Australasia	114111.6 (110297.9-118366.3)	526.9 (509.3-546.5)	220555.8 (212830.1-228424.8)	605.3 (583.2-627.5)	0.452(0.423-0.48 2)
Andean Latin America	277522.2 (267498.8-287900.1)	858.5 (827.6-889.0)	668581.1 (644023.6-692168.1)	1018.7 (980.4-1053.5)	0.552(0.531-0.57 3)
Tropical Latin America	568588.6 (550164.5-586982.2)	415.6 (402.4-429.0)	1000422.8 (968021-1033148.4)	410.8 (397.9-424)	-0.033(-0.039--0. 028)
Central Latin America	807873.8 (780018.8-835381.9)	585.2 (566-604.5)	1678611.2 (1622121.3-1734179.2)	644.1 (622.9-665.3)	0.309(0.301-0.31 7)
Southern Latin America	259335.4 (250524.5-268897.1)	535.3 (517-555.3)	454728 (438287.7-473168.9)	609.5 (587.3-633.7)	0.418(0.408-0.42 8)
Caribbean	191070.9 (184387.2-198136.5)	591.2 (571.1-614.0)	311960.2 (300625.4-324247.5)	623.1 (600.8-646.7)	0.171(0.168-0.17 4)
Central Europe	570398.8 (551116-589745.5)	416.0 (402.0-430.0)	693423.7 (673933.3-713912.3)	479.1 (466.2-491.6)	0.460(0.435-0.48 5)
Eastern Europe	973375.5 (940379-1006453.4)	388.5 (375.4-401.0)	1126083.2 (1087576.7-1166372.5)	442 (427.1-456.4)	0.418(0.406-0.43)
Central Asia	223965.2 (215501.1-232140.9)	369 (355.5-381.5)	395830.1 (380915-410263.5)	413.7 (398.3-428.5)	0.373(0.361-0.38 4)
North Africa and Middle East	1078726.5 (1042463.6-1114051.9)	400.6 (387.1-414.1)	3076685.3 (2962328.7-3188107.1)	508.8 (490.9-526.4)	0.775(0.767-0.78 3)
South Asia	3143241.8 (3043455-3246837.3)	332.6 (322-342.8)	6603079.8 (6392736.8-6815307.7)	361.0(349.5-372.4)	0.229(0.183-0.27 5)
Southeast Asia	1741466.2	451.9 (437-466.8)	3949656.1	545.1 (526.4-563.2)	0.609(0.6-0.618)

	(1683852.8-1799523.9)		(3809325.2-4084197)		
East Asia	4006555.7 (3871168.6-4140823)	356.8 (345.2-368.1)	8619614.9 (8324979.2-8915085.8)	466.9 (451.8-481.5)	0.874(0.849-0.899)
Oceania	17187.4 (16529.6-17818.5)	340.3 (327.2-352.6)	44637.8 (42997.8-46292.9)	382.5 (368.7-396.2)	0.378(0.37-0.386)
Western Sub-Saharan Africa	480572.1 (464508.1-497020.6)	316.6 (306.3-327.1)	1434638.6 (1385778.3-1484213.5)	366.3 (354.8-378.5)	0.464(0.424-0.504)
Eastern Sub-Saharan Africa	211936.4 (204467.2-219389.3)	145.9 (141-150.8)	512564.3 (494621.7-530353.6)	150.2 (145.4-155.1)	0.091(0.074-0.108)
Central Sub-Saharan Africa	114890.8 (110532.1-119234.8)	264.2 (254.5-273.7)	340444.8 (327175.5-353517.8)	302.9 (292.3-313.7)	0.442(0.422-0.461)
Southern Sub-Saharan Africa	101562.5 (98049-105128.2)	229.7 (222.1-237.2)	188239.1 (181892.3-194700.6)	243.9 (236.2-252.1)	0.185(0.161-0.209)

Abbreviations: AAPC: Average Annual Percentage Changes; ASPR: Age-standardized prevalence rate.

Table S4. ASDR and AAPC of psoriasis at global and regional level .

Location	DALYs(95% CI)				
	Cases in 1990 (million)	ASDR in 1990 (per 100,000)	Cases in 2021 (million)	ASDR in 2021 (per 100,000)	AAPC (95% CI)
Global	1996756.1 (1441303.4-2670809.4)	41.1 (29.8-54.9)	3689928.3 (2684039.9-4917112.8)	44.4 (32.2-59.2)	0.242(0.225-0.260)
Gender:					
Male	990021.4(714695.3-1328732.4)	41.4 (30-55.6)	1877393(1363660.3-2506550.8)	45.4 (33-60.6)	0.293(0.274-0.311)
Female	1006734.7 (726796.7-1342076.9)	40.8 (29.5-54.4)	1812535.3 (1320379.6-2412066.3)	43.4 (31.5-57.8)	0.198(0.180-0.216)
SDI level:					
High	658614.7 (477507.6-881958.9)	68.3 (49.4-91.4)	975397.6 (714215.4-1297563.3)	73.3 (53.2-97.7)	0.223(0.204-0.242)
High-middle	418699.1 (302033.7-561332.7)	39.1 (28.2-52.3)	750440.6 (546290.2-999445.8)	47.5 (34.5-63.3)	0.638(0.618-0.659)
Middle	546044.2 (393203-729744.9)	35.9 (25.9-47.9)	1144223 (829568.3-1527293.8)	43.2 (31.3-57.6)	0.592(0.574-0.61)
Low-middle	286019.8 (206328.3-382896.9)	28.9 (20.8-38.7)	599948.1 (432683.6-806757.5)	32.5 (23.5-43.5)	0.360(0.323-0.397)
Low	85317.3 (61709.2-115148.3)	21.2 (15.2-28.3)	216728.4 (157310.2-292188.1)	23.1 (16.7-30.9)	0.271(0.236-0.305)
Region					
High-income Asia Pacific	62535.7 (45549.2-83684.6)	32.7 (23.7-43.8)	82202.2 (59692.8-109283.8)	34.6 (24.9-46.2)	0.176(0.158-0.193)
High-income North America	241412.9 (175174.6-323056.3)	80.3 (58-107.4)	362213 (265351.1-476605)	83.1 (60.4-109.7)	0.112(0.101-0.124)

Western Europe	396707.9 (286401.9-531455.8)	90 (64.8-120.1)	541494.7 (393879.2-723857.4)	99.8 (72.2-133.9)	0.332(0.314-0.351)
Australasia	9772.6 (7054.5-13011)	45.3 (32.6-60.6)	18758 (13429.6-24929.5)	52.1 (37.3-69.6)	0.452(0.417-0.487)
Andean Latin America	24351 (17724.5-32998.1)	74.5 (54-100.6)	58153.3 (42211-77635.5)	88.4 (64.1-117.7)	0.553(0.526-0.580)
Tropical Latin America	49228.2 (35412.3-65765.8)	35.5 (25.6-47.6)	85291 (61916.9-113230.1)	35.2 (25.5-46.8)	-0.038(-0.057--0.018)
Central Latin America	70759 (50797.8-94585.9)	50.5 (36.4-66.8)	144890.6 (104615.1-193604.5)	55.6 (40.1-74.3)	0.310(0.297-0.323)
Southern Latin America	22484.8 (16294-29962.2)	46.3 (33.6-61.7)	39041 (28403.3-52060.3)	52.6 (38.3-70.5)	0.408(0.387-0.428)
Caribbean	16638.7 (11972.6-22187.9)	51.2 (36.9-68.5)	26796.2 (19201.3-35719.2)	53.7 (38.4-71.8)	0.156(0.139-0.172)
Central Europe	48924.4 (35515.3-64848.2)	35.9 (26-47.5)	58899.3 (43017.5-78086.6)	41.4 (30-55.2)	0.473(0.441-0.505)
Eastern Europe	83051.4 (60340.4-110730.2)	33.4 (24.3-44.5)	95182.9 (69625.2-127100)	37.9 (27.5-50.5)	0.420(0.400-0.440)
Central Asia	19573.7 (14084.9-26020.4)	32 (23-42.5)	34360.4 (24873.9-45831.3)	35.8 (25.9-47.8)	0.365(0.333-0.398)
North Africa and Middle East	94032.9 (67582.8-126814.1)	34.5 (25-46.1)	265386 (189416.7-355031.4)	43.6 (31.2-58.3)	0.762(0.753-0.771)
South Asia	272799.4 (197005.1-366604.5)	28.5 (20.6-38.2)	570539 (410766.2-765530.3)	31 (22.4-41.7)	0.242(0.198-0.286)
Southeast Asia	152518.6 (109885.9-204778.4)	39 (28.2-52.2)	342924.9 (249665.4-459152.2)	47.2 (34.3-63.2)	0.618(0.606-0.629)
East Asia	351134 (252981.4-471594.2)	31 (22.4-41.5)	742940.3 (539071.3-990457.2)	40.6 (29.4-54.3)	0.880(0.855-0.905)
Oceania	1501 (1074.9-1979.9)	29.2 (21-38.4)	3902.5 (2786.3-5189.6)	32.9 (23.6-43.6)	0.389(0.375-0.403)
Western Sub-Saharan Africa	41844.8 (30390.7-56502.7)	27.1 (19.7-36.3)	125843.7 (91563.3-169081.6)	31.6 (22.9-42.2)	0.483(0.431-0.534)
Eastern Sub-Saharan	18691.9 (13485.9-25188.5)	12.6 (9.1-16.9)	45262.2 (33034.6-60751.7)	13.0 (9.5-17.3)	0.100(0.079-0.122)

Africa					
Central Sub-Saharan Africa	9932.7 (7107.7-13278.3)	22.4 (16.1-29.6)	29712 (21555.2-40044.6)	26 (18.8-34.9)	0.468(0.431-0.505)
Southern Sub-Saharan Africa	8860.8 (6395.6-11753.2)	19.8 (14.3-26.3)	16134.8 (11578.8-21561.3)	20.8 (14.9-27.8)	0.156(0.135-0.176)

Abbreviations: AAPC: Average Annual Percentage Changes; ASDR: Age-standardized disability-adjusted life years rate; DALYs: Disability-adjusted life-years.

Table S5.Distribution of Age-Adjusted Percentage Change (AAPC) across Different Metrics and Age Groups

Metric	Age	Gender	AAPC	Lower CI	Upper CI
Incidence	<5 years	Both	0.430	0.397	0.463
Incidence	80-84 years	Both	0.350	0.220	0.480
Incidence	50-54 years	Both	0.321	0.265	0.378
Incidence	55-59 years	Both	0.314	0.265	0.364
Incidence	85-89 years	Both	0.299	0.263	0.335
Incidence	75-79 years	Both	0.294	0.206	0.381
Incidence	45-49 years	Both	0.292	0.274	0.311
Incidence	35-39 years	Both	0.283	0.262	0.305
Incidence	20-24 years	Both	0.270	0.237	0.303
Incidence	70-74 years	Both	0.267	0.193	0.340
Incidence	60-64 years	Both	0.264	0.084	0.445
Incidence	40-44 years	Both	0.257	0.233	0.282
Incidence	5-9 years	Both	0.250	0.233	0.267
Incidence	95+ years	Both	0.242	0.210	0.274
Incidence	25-29 years	Both	0.240	0.216	0.263
Incidence	90-94 years	Both	0.228	0.211	0.245
Incidence	30-34 years	Both	0.221	0.187	0.254
Incidence	15-19 years	Both	0.218	0.188	0.247
Incidence	65-69 years	Both	0.190	0.138	0.242

Incidence	10-14 years	Both	0.184	0.142	0.227
Prevalence	<5 years	Both	0.431	0.407	0.455
Prevalence	<5 years	Female	0.427	0.389	0.465
Prevalence	<5 years	Male	0.436	0.419	0.453
Prevalence	55-59 years	Both	0.332	0.287	0.377
Prevalence	10-14 years	Female	0.242	0.196	0.289
Prevalence	10-14 years	Male	0.296	0.276	0.317
Prevalence	5-9 years	Both	0.298	0.260	0.336
Prevalence	15-19 years	Female	0.181	0.153	0.210
Prevalence	15-19 years	Male	0.340	0.320	0.361
Prevalence	50-54 years	Both	0.284	0.216	0.352
Prevalence	20-24 years	Female	0.182	0.137	0.228
Prevalence	20-24 years	Male	0.318	0.296	0.339
Prevalence	70-74 years	Both	0.282	0.245	0.318
Prevalence	25-29 years	Female	0.182	0.145	0.218
Prevalence	25-29 years	Male	0.205	0.180	0.230
Prevalence	60-64 years	Both	0.281	0.239	0.323
Prevalence	30-34 years	Female	0.159	0.137	0.181
Prevalence	30-34 years	Male	0.121	0.087	0.154
Prevalence	10-14 years	Both	0.266	0.215	0.317
Prevalence	35-39 years	Female	0.245	0.226	0.265

Prevalence	35-39 years	Male	0.210	0.187	0.232
Prevalence	45-49 years	Both	0.265	0.228	0.302
Prevalence	40-44 years	Female	0.224	0.203	0.246
Prevalence	40-44 years	Male	0.184	0.155	0.213
Prevalence	15-19 years	Both	0.246	0.223	0.270
Prevalence	45-49 years	Female	0.237	0.198	0.275
Prevalence	45-49 years	Male	0.296	0.261	0.331
Prevalence	20-24 years	Both	0.241	0.214	0.269
Prevalence	50-54 years	Female	0.196	0.152	0.241
Prevalence	50-54 years	Male	0.372	0.340	0.404
Prevalence	35-39 years	Both	0.227	0.208	0.246
Prevalence	55-59 years	Female	0.194	0.130	0.257
Prevalence	55-59 years	Male	0.449	0.426	0.472
Prevalence	40-44 years	Both	0.201	0.174	0.228
Prevalence	5-9 years	Female	0.302	0.262	0.343
Prevalence	5-9 years	Male	0.302	0.258	0.347
Prevalence	85-89 years	Both	0.201	0.127	0.275
Prevalence	60-64 years	Female	0.170	0.117	0.222
Prevalence	60-64 years	Male	0.389	0.362	0.416
Prevalence	25-29 years	Both	0.197	0.168	0.226
Prevalence	65-69 years	Female	0.040	-0.001	0.081

Prevalence	65-69 years	Male	0.284	0.254	0.315
Prevalence	75-79 years	Both	0.179	0.146	0.212
Prevalence	70-74 years	Female	0.238	0.210	0.265
Prevalence	70-74 years	Male	0.327	0.289	0.365
Prevalence	80-84 years	Both	0.179	0.139	0.219
Prevalence	75-79 years	Female	0.193	0.166	0.221
Prevalence	75-79 years	Male	0.160	0.125	0.196
Prevalence	90-94 years	Both	0.179	0.147	0.211
Prevalence	80-84 years	Female	0.160	0.114	0.206
Prevalence	80-84 years	Male	0.211	0.177	0.246
Prevalence	65-69 years	Both	0.172	0.126	0.217
Prevalence	85-89 years	Female	0.185	0.129	0.242
Prevalence	85-89 years	Male	0.245	0.162	0.329
Prevalence	30-34 years	Both	0.140	0.116	0.165
Prevalence	90-94 years	Female	0.141	0.111	0.172
Prevalence	90-94 years	Male	0.255	0.199	0.312
Prevalence	95+ years	Both	0.086	0.008	0.164
Prevalence	95+ years	Female	0.053	-0.017	0.123
Prevalence	95+ years	Male	0.193	0.101	0.285
DALYs	55-59 years	Male	0.453	0.426	0.479
DALYs	<5 years	Male	0.440	0.411	0.468

DALYs	<5 years	Both	0.436	0.407	0.464
DALYs	<5 years	Female	0.430	0.375	0.486
DALYs	50-54 years	Male	0.378	0.338	0.418
DALYs	60-64 years	Male	0.377	0.334	0.420
DALYs	15-19 years	Male	0.339	0.312	0.366
DALYs	55-59 years	Both	0.332	0.288	0.376
DALYs	20-24 years	Male	0.330	0.289	0.371
DALYs	70-74 years	Male	0.322	0.289	0.356
DALYs	10-14 years	Male	0.320	0.291	0.349
DALYs	5-9 years	Female	0.309	0.263	0.356
DALYs	5-9 years	Both	0.303	0.262	0.344
DALYs	5-9 years	Male	0.301	0.260	0.342
DALYs	45-49 years	Male	0.300	0.260	0.340
DALYs	50-54 years	Both	0.285	0.229	0.342
DALYs	10-14 years	Both	0.282	0.228	0.336
DALYs	60-64 years	Both	0.276	0.231	0.322
DALYs	65-69 years	Male	0.270	0.201	0.339
DALYs	45-49 years	Both	0.268	0.227	0.310
DALYs	70-74 years	Both	0.262	0.225	0.298
DALYs	90-94 years	Male	0.250	0.193	0.307
DALYs	10-14 years	Female	0.247	0.196	0.298

DALYs	15-19 years	Both	0.246	0.215	0.278
DALYs	20-24 years	Both	0.241	0.203	0.279
DALYs	35-39 years	Female	0.238	0.180	0.296
DALYs	45-49 years	Female	0.232	0.195	0.270
DALYs	70-74 years	Female	0.229	0.190	0.268
DALYs	35-39 years	Both	0.221	0.166	0.276
DALYs	40-44 years	Female	0.221	0.197	0.244
DALYs	85-89 years	Male	0.219	0.138	0.300
DALYs	35-39 years	Male	0.215	0.181	0.249
DALYs	25-29 years	Male	0.214	0.181	0.247
DALYs	80-84 years	Male	0.210	0.178	0.242
DALYs	40-44 years	Both	0.199	0.167	0.231
DALYs	85-89 years	Both	0.196	0.124	0.267
DALYs	50-54 years	Female	0.192	0.145	0.239
DALYs	95+ years	Male	0.192	0.084	0.301
DALYs	40-44 years	Male	0.190	0.156	0.224
DALYs	55-59 years	Female	0.188	0.126	0.250
DALYs	25-29 years	Both	0.185	0.157	0.214
DALYs	25-29 years	Female	0.181	0.129	0.232
DALYs	75-79 years	Female	0.175	0.137	0.213
DALYs	85-89 years	Female	0.174	0.113	0.235

DALYs	20-24 years	Female	0.172	0.111	0.233
DALYs	80-84 years	Both	0.170	0.132	0.208
DALYs	90-94 years	Both	0.170	0.123	0.217
DALYs	15-19 years	Female	0.167	0.147	0.187
DALYs	75-79 years	Both	0.162	0.133	0.191
DALYs	30-34 years	Female	0.161	0.131	0.190
DALYs	75-79 years	Male	0.157	0.117	0.196
DALYs	60-64 years	Female	0.154	0.102	0.206
DALYs	65-69 years	Both	0.153	0.118	0.188
DALYs	30-34 years	Both	0.145	0.114	0.177
DALYs	80-84 years	Female	0.143	0.094	0.192
DALYs	30-34 years	Male	0.131	0.092	0.170
DALYs	90-94 years	Female	0.124	0.079	0.170
DALYs	95+ years	Both	0.070	0.003	0.136
DALYs	65-69 years	Female	0.026	-0.013	0.066
DALYs	95+ years	Female	0.026	-0.041	0.093

Table S6.Indicators of the global burden of psoriasis disease and percentage change by country

Location	DALY_cases_1990	DALY_cases_2021	DALY_change_rate(%)	DALY_ASR_2021	Prevalence_case_1990	Prevalence_case_2021	Prevalence_change_rate(%)	Prevalence_ASR_2021	Incidence_case_1990	Incidence_case_2021	Incidence_change_rate(%)	Incidence_ASR_2021
Italy	48946.8	60658	23.93	78.7(105.3-56.9)	574001.9	716290.6	24.8	910.2(943.4-878.6)	57781.8	69353.84	20.03	99.8(103-96.6)
Bolivia	3602.37	9255.16	156.92	80.9(107.4-58.5)	41232.1	106476.4	158.2	936.5(971.4-902.6)	4997.64	11553.91	131.19	99.6(103.6-95.8)
Canada	20709.27	35411.7	70.99	78.8(105.5-57.5)	239630.8	415095.7	73.2	908.8(941-877.5)	24971.26	41412.27	65.84	98.9(102.1-95.6)
Greenland	34.48	46.18	33.93	73(98.5-53.3)	397.5	539.6	35.7	849.6(880.5-821.7)	45.85	59.18	29.08	95(98.1-91.9)
Sweden	6931.7	8897.87	28.36	71.9(98-52.8)	81029.9	104274.7	28.7	830.2(860.5-802.7)	8236.21	10761.2	30.66	94.3(97.4-91.3)
Norway	3239.45	4627.69	42.85	71.5(96.1-51.6)	37935.5	54113.5	42.6	825.8(854.5-799.7)	3943.61	5684.01	44.13	94(97.1-91.1)
Spain	25246.22	36353.19	43.99	63.6(84.2-46.2)	292922.6	426379.3	45.6	734(756.4-715.2)	32879.29	45677.58	38.93	86.7(89.5-84)
Puerto Rico	2140.91	2610.77	21.95	65.1(86.9-47.4)	24660.4	30771.4	24.8	752.3(778.2-724.7)	2881.08	3179.27	10.35	86.6(90-83.2)
Virgin Islands	62.46	68.86	10.26	64.5(85.9-46.5)	715.6	817.4	14.2	748(775.8-720.1)	85.38	85.04	-0.4	86.3(89.7-82.8)
Tobago	642.3	1001.93	55.99	63.2(83.4-44.7)	7369.1	11757.6	59.6	735.1(762.2-708)	904.56	1302.27	43.97	85.4(89-81.8)
Bahamas	138.54	262.15	89.22	62.2(83.5-45.3)	1582.5	3042.3	92.2	720.9(745.9-695.3)	192.86	348.12	80.5	84.3(87.5-81)

Bermuda	36.33	49.23	35.52	61.7(82.3-4 5.1)	418.1	578.4	38.3	710.8(737.5 -684.4)	48.78	61.58	26.24	83.5(86.8-80 .1)
Barbados	152.3	219.21	43.93	61.4(80.5-4 4.7)	1758.5	2564.6	45.8	707.6(733.3 -679.8)	200.93	280.52	39.61	83.4(86.6-80 .3)
Nevis	20.95	40.85	94.97	60.9(81.2-4 3.5)	241.8	477.4	97.4	706.9(733.5 -678.6)	29.52	54.39	84.29	83.2(86.5-79 .9)
Antigua、 Barbuda	31.36	60.45	92.74	60.6(80.4-4 3.9)	360	705.2	95.9	703.2(729.7 -678.4)	43.78	80.55	83.98	83(86.5-79.8)
Dominica	35.86	44.83	25.04	60.3(79.8-4 3.3)	411.2	522.2	27	698.7(726.8 -672)	51.01	59.51	16.66	82.6(85.7-79 .2)
Panama	1173.52	2632.41	124.32	60.3(79.8-4 3.8)	13386.5	30400.2	127.1	695.8(720.1 -668.8)	1686.4	3576.76	112.09	82.3(85.5-79)
Costa Rica	1441.14	3044.91	111.29	59.6(80.5-4 2.3)	16400.9	35331.4	115.4	688.7(712.1 -663.8)	2101.21	4092.18	94.75	81.8(84.9-78 .7)
Colombia	14959.63	30455.84	103.59	58.5(78-41. 7)	170757.8	352204	106.3	674.3(699.4 -649.7)	22052.21	41207.26	86.86	80.7(83.8-7 7.4)
Grenada	38.26	63.95	67.17	57.6(77-42. 1)	439.6	744.4	69.3	668.7(692.1 -644.4)	56.88	87.56	53.94	80.4(83.4-77 .3)
Suriname	187.92	351.43	87.01	57.3(76.5-4 1.7)	2152.6	4101.4	90.5	667.1(691.2 -641.5)	272.79	486.57	78.37	80.3(83.5-77 .1)
Guyana	330.05	428.98	29.97	56.6(76.5-4 0.6)	3807.3	5006.1	31.5	663.4(689.5 -638)	502.76	611.42	21.61	80(83.2-76.7)
Saint Lucia	60.04	115.62	92.58	56.9(76-41. 3)	690.4	1356.3	96.4	661.4(687.5 -636.6)	89.74	156.57	74.46	79.8(83.2-76 .7)
Jamaica	1111.15	1696.83	52.71	57.2(77.8-4 0.6)	12703.1	19614.5	54.4	659.4(682.5 -632.4)	1607.91	2312.91	43.85	79.7(82.9-76 .6)

Turkey	23252.85	55689.22	139.49	60.6(80.8-4 4)	267837.6	649200.1	142.4	704.9(731.6 -677.8)	33716.18	71700	112.66	79.7(82.8-7 6.8)
Venezuela	8673.36	15997.97	84.45	56.2(75.1-4 1.1)	98767.6	185493.5	87.8	650.1(674.5 -627.1)	12756.79	22138.71	73.54	78.9(82-75.4)
Mexico	36565.87	74181.54	102.87	55.4(74-40. 4)	417870.1	860983	106	643.3(663.3 -622.5)	55532.34	104805.16	88.73	78.9(81.3-7 6.3)
Cuba	5858.97	7540.52	28.7	55.9(74.4-4 0.3)	67429	88182	30.8	644.9(668.5 -620.6)	8125.64	10070.41	23.93	78.6(81.7-75 .4)
Grenadine s	47.62	68.88	44.65	55(72.5-39. 8)	543.8	805.3	48.1	638.4(663- 615)	70.93	95.4	34.5	78.1(81.2-75)
Chile	5734.26	11381.26	98.48	53.6(71.9-3 8.8)	66108	133238.2	101.5	622.8(647.3 -599.3)	8579.55	16069.88	87.3	78(81-74.8)
Belize	72.58	221.45	205.1	53.8(72.1-3 8.9)	823.9	2538.4	208.1	620.9(643.7 -598.4)	112.96	319.86	183.17	76.7(79.7-73 .6)
Argentina	15214.78	25666.47	68.69	52.3(69.5-3 8)	175417.7	298118.2	69.9	604.7(629.2 -581.9)	22298.4	36660.16	64.41	76.5(79.3-7 3.4)
Iraq	5941.84	20986.38	253.2	55.7(73.4-4 0.6)	68271.8	244030.2	257.4	655.7(680.8 -629.6)	9224.37	29883.48	223.96	76.3(79.3-73 .5)
El Salvador	2084.97	3371.28	61.69	53(70.6-38. 1)	23925.1	39017	63.1	615.1(638.2 -592.2)	3241.12	4845.65	49.51	76.2(79.4-73 .3)
Australia	8190.61	15780.71	92.67	52.5(69.9-3 7.4)	95559.7	185586.9	94.2	610.2(633- 587.8)	11750.06	21832.17	85.8	76.2(79.1-73 .4)
Dominican Republic	2889.24	5804.77	100.91	52.9(69.8-3 7.8)	32836.9	67023.3	104.1	611.5(635- 588.2)	4431.32	8353.91	88.52	76(79.2-73)
Uruguay	1534.66	1991.09	29.74	51.5(68.8-3 7.1)	17797.4	23346.6	31.2	597.9(620.1 -575.6)	2204.59	2809.68	27.45	75.9(78.7-72 .8)

New Zealand	1582	2977.29	88.2	50(66.7-36.2)	18551.9	34968.9	88.5	581.2(602-561.1)	2319.82	4247.39	83.09	74.3(76.7-71.5)
Nicaragua	1366.52	3237.71	136.93	50.6(67.6-36.4)	15532.2	37240.2	139.8	586.4(608.6-564.6)	2212.66	4795.75	116.74	74(76.9-71.1)
Guatemala	2838.13	7357.97	159.25	49.8(66.9-36)	32439.5	84973.3	161.9	581(601.5-559.4)	4687.31	11029.08	135.3	73.6(76.3-70.5)
Honduras	1655.85	4611	178.47	49.5(65.8-35.5)	18794.1	52968.7	181.8	575(595.6-554.2)	2679.36	6952.72	159.49	73.1(76-70)
United Arab Emirates	698.12	6195.12	787.4	52.3(69.5-37.5)	7924.7	71137.1	797.7	606.6(629.9-583.5)	1053.34	8285.72	686.61	72.8(76-70)
Malaysia	6480.08	17081.99	163.61	52.8(69.7-38)	73807.6	196569.1	166.3	609.9(632.1-586.9)	9695.7	23678.73	144.22	72.8(75.7-69.7)
Seychelles	29.67	61.26	106.46	52.3(70-38)	339.8	711	109.2	605.8(628.9-582.7)	42.56	84.02	97.43	72.7(75.7-69.7)
Qatar	171.12	1681.43	882.63	51.1(69-36.5)	1939.4	19124.5	886.1	592.5(616.1-569.7)	256.69	2345.33	813.69	71.8(74.6-68.9)
Kuwait	652.91	2657.53	307.03	50.7(67.7-36.2)	7409.4	30634.9	313.5	589.7(611.6-566.5)	977.07	3674.67	276.09	71.3(74-68.5)
Sri Lanka	6525.69	12403.73	90.08	50.3(66.2-37)	74870	145081.1	93.8	585.8(609.5-563.8)	9735.47	17118.44	75.84	70.8(73.7-67.8)
Saudi Arabia	4731.5	20085.01	324.5	49.9(67.4-35.1)	53963.9	231869.3	329.7	583(605.1-561)	7570.06	28543.05	277.05	70.8(73.4-68.3)
Oman	572.34	2309.41	303.51	49.1(65.8-35)	6526.6	26351.6	303.8	569(590.7-547.4)	925.4	3334.29	260.31	69.9(72.7-67.4)
Mauritius	412.99	746.87	80.85	48.8(64.9-3)	4755.2	8794.9	85	568.8(589.6)	620.03	1023.44	65.06	69.5(72.2-66)

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Maldives	59.3	256.73	332.94	48.6(64.9-3 5.1)	671.5	2914.9	334.1	556.8(579.2 -535)	96.16	379.79	294.95	69.3(72-66.6)
Indonesia	62049.94	140507.9 2	126.44	48.6(64.8-3 5)	706922.1	1613492.7	128.2	560.6(578.2 -542.2)	95965.3	201082.09	109.54	69.2(71.3-6 7.1)
Haiti	2218.45	5238.73	136.14	44.7(60.2-3 1.9)	25657.2	60795	137	524.7(544.6 -505.7)	3654.3	8340.02	128.22	69(71.8-66.2)
Bahrain	177.63	791.22	345.44	47.3(64.1-3 4)	2022.1	9126.8	351.3	551.1(571.6 -529.7)	273.26	1142.45	318.09	68.5(71-65.7)
Thailand	20945.36	40793.67	94.76	48.2(64.6-3 4.7)	239706.1	476544.6	98.8	556.8(577.9 -536.2)	31376.68	54850.93	74.81	68.4(71-65. 6)
Philippines	20282.61	48890.55	141.05	45.9(61.4-3 3.3)	231767.9	562034.6	142.5	532.3(549- 515)	31640.82	72611.35	129.49	66.8(68.9-6 4.8)
Vietnam	20535.81	49017.46	138.69	46.2(62.1-3 3.6)	234511.2	561516.8	139.4	529.8(551.4 -508.2)	32265.66	70452.25	118.35	66.3(69-63. 7)
Libya	1187.61	3288.28	176.88	45(60.4-32. 5)	13516.2	38161.8	182.3	524.8(545.5 -505.3)	1925.19	4838.01	151.3	66.3(68.9-64)
Jordan	1052.14	5259.07	399.85	44.8(59.3-3 2.7)	11942.6	60547.7	407	521.7(542.1 -500.5)	1710.6	7944.63	364.43	66(68.3-63.5)
Lebanon	961.31	2570.57	167.4	43.7(58.2-3 1.8)	11119.2	30176.3	171.4	512.4(532- 493.7)	1514.09	3775.2	149.34	65.2(67.8-62 .9)
Iran	15183.14	39783.73	162.03	43.3(57.8-3 1.4)	174295.2	463717.1	166.1	505.3(522.3 -488.9)	25363.13	59099.62	133.01	65(67.1-63)
Algeria	7181.8	19103.99	166.01	43.5(58.3-3 1.5)	82210.8	221318.5	169.2	506(525.9- 486.6)	11638.39	28604.82	145.78	64.7(67.1-62 .1)
Tunisia	2491.92	5592.52	124.43	43.1(57.7-3	28626.9	65526.9	128.9	503.6(523.1	4004.63	8214.16	105.12	64.5(66.9-61

				0.7)				-484.9)				.8)
Guam	46.73	78.37	67.73	44.1(59-31.8)	529.7	909.3	71.7	507.8(526.2-488.9)	71.85	110.65	53.99	64.2(66.7-61.7)
Poland	15921.47	20639.87	29.64	43.9(58.2-32.1)	186183.7	243479.8	30.8	509.1(517.1-500.3)	23518.01	27814.47	18.27	63.9(65.5-62.4)
Timor-Leste	197.82	501.87	153.71	42.8(57.4-31.2)	2261.3	5759.3	154.7	496.8(514-478)	330.93	769.76	132.61	63.4(66-60.8)
Northern Mariana Islands	15.86	23.57	48.6	43(56.6-30.8)	179	272.5	52.2	496.8(514.4-477.7)	24.55	34.11	38.9	63.3(65.6-60.7)
Palau	5.07	9.33	84.05	42.2(56.4-30.5)	58.3	109.2	87.2	490.8(509.8-471.4)	7.89	13.6	72.38	63.2(65.7-60.9)
Syria	3097.83	5987.28	93.27	41.3(55.6-29.7)	35356.6	70002.4	98	484.2(501.5-465.7)	5253	9112.38	73.47	62.8(65.2-60.4)
Slovenia	812.95	1103.63	35.76	42.7(57.1-31.1)	9494	13054.8	37.5	494.6(513.7-476.1)	1198.28	1492.79	24.58	62.7(64.9-60.4)
Sudan	4771.51	14634.84	206.71	40.4(54.6-28.9)	54538.6	168075	208.2	470.7(487.8-453.3)	8132.16	23666.82	191.03	61.8(64-59.5)
Cook Islands	5.91	8.51	43.85	41.3(54.6-30.2)	67.8	100.4	48.1	481.9(500.6-464.9)	9.27	12.23	31.91	61.7(64.1-59.4)
Myanmar	11167.61	22984.54	105.81	41(54.8-29.6)	127950	265165.5	107.2	475.3(493.2-456)	18221.01	34761.81	90.78	61.6(64-59.1)
Czech Republic	4088.98	5416.46	32.46	41.4(54.9-29.5)	47778.7	63896.3	33.7	478.8(495.5-462.1)	6105.97	7433.98	21.75	61.4(63.7-59.3)
Croatia	1985.95	2179.09	9.73	41.3(55.3-30.3)	23011.5	25712.8	11.7	478(495.8-461.1)	2958.48	2964.59	0.21	61.3(63.4-59.1)

Cambodia	2553.83	6467.41	153.24	40.4(53.1-28.8)	29315.4	74439.6	153.9	469.1(487.3-451.7)	4282.57	10010.19	133.74	61.2(63.9-58.7)
Laos	1057.29	2732.62	158.45	40.9(55-29.6)	12069	31123	157.9	470.8(487.7-453.1)	1758.4	4215.27	139.72	61.2(63.8-58.9)
Montenegro	235.64	304.33	29.15	41.2(54.9-29.9)	2717.5	3559.4	31	476.2(494.1-459.9)	357.85	427.03	19.33	61.2(63.5-59.2)
Palestine	470.19	1750.39	272.28	39.4(53.2-28.6)	5382.2	20251.9	276.3	462.4(481.6-444.5)	811.57	2845.09	250.57	61.2(63.5-58.9)
Singapore	1055.69	2751.41	160.63	38.8(51.3-27.4)	12027.3	31631.1	163	442(458.4-426.6)	1668.01	4177.72	150.46	61.2(63.4-58.8)
Slovakia	1942.97	2728.21	40.41	41(54.6-29.5)	22594.5	32001.3	41.6	473.4(491.6-456.7)	2977.08	3793.89	27.44	61(63-58.8)
American Samoa	43.65	70	60.37	40.2(53.9-29.4)	497.1	805.6	62.1	470.3(487.9-452.9)	71.27	111.32	56.19	61(63.2-58.5)
Hungary	4144.93	4904.09	18.32	41.1(54.1-29.1)	48571.5	57719.2	18.8	474(492.1-456.6)	6217.08	6711.77	7.96	61(63.1-58.8)
Serbia	3756.17	4490.81	19.56	41.1(54.1-29.1)	43488.4	52585.9	20.9	472.5(489.9-455.6)	5711.9	6197.73	8.51	60.9(63-58.8)
Morocco	6903.55	15008.47	117.4	39.2(52.3-28.4)	79509.3	175290	120.5	459(477.2-441.5)	11428.86	23291.84	103.8	60.9(63.4-58.7)
Bulgaria	3530.89	3472.8	-1.65	40.6(54.7-28.6)	41323.2	41079.4	-0.6	469.7(487.5-453.1)	5273.9	4774.04	-9.48	60.7(63-58.6)
Lithuania	1322.3	1347.9	1.94	40(54.2-29.1)	15417.1	15985.8	3.7	464.8(482.1-446.7)	2040.87	1878.6	-7.95	60.4(62.8-58.1)
North Macedonia	706.07	1069.01	51.4	40.1(54.2-29.1)	8120.5	12536.2	54.4	464.6(480.6-448.4)	1098.46	1519.28	38.31	60.3(62.6-58.2)

Niue	0.73	0.74	2.51	39.5(52.9-2 9)	8.4	8.7	3.3	459.2(476.3 -441.5)	1.13	1.1	-3.22	60(62.3-57.7)
China	343657.04	728553.2 1	112	41.2(55.1-2 9.8)	3921863.4	8453044.9	115.5	474(488.9- 458.6)	530265.08	1012635.2 2	90.97	59.7(61.6-5 7.8)
Nauru	2.76	3.61	30.72	38.7(52.4-2 7.8)	31.5	41.5	31.6	452.5(470.7 -435.9)	4.54	5.8	27.81	59.6(61.9-57 .4)
Estonia	567.53	616.64	8.65	38.9(51.6-2 7.8)	6635.3	7278.9	9.7	451.3(467.9 -434.1)	877.38	869.1	-0.94	59.2(61.6-56 .7)
Bosnia and Herzegovina	1465.77	1600.16	9.17	38.8(51.7-2 8.1)	16918	18933	11.9	451(466.7- 435.7)	2373.93	2274.3	-4.2	59.2(61.4-57 .2)
Yemen	2850.04	10260.46	260.01	37.4(49.8-2 7.3)	32673.4	118283.6	262	438.1(454.7 -421.8)	5036.24	17119.29	239.92	59.1(61.5-56 .7)
Brunei	73.96	173.51	134.6	36.4(49.2-2 6)	834.4	1986.8	138.1	419.2(435.2 -404.9)	122.83	280.89	128.68	59.1(61.2-57)
Latvia	985.29	890.51	-9.62	38.8(51.9-2 7.8)	11559.8	10519.1	-9	448.9(465.7 -432.6)	1512.77	1253.71	-17.12	59(61.5-56.5)
Russia	55128.62	66647.62	20.89	38.2(50.9-2 7.7)	645876.1	788018.4	22	445.6(459.6 -430.8)	85724.98	97498.89	13.73	58.9(60.9-5 7.1)
Tokelau	0.44	0.54	21.35	38.1(50.6-2 7.8)	5.1	6.3	23	444.1(460.7 -427.3)	0.71	0.82	14.85	58.7(60.9-5 6.4)
Albania	968.86	1222.37	26.17	38.3(51.3-2 7)	11094.7	14315.5	29	442.6(458.3 -427.6)	1591.45	1763.48	10.81	58.7(60.8-56 .6)
Fiji	204.69	342.99	67.57	37.6(49.4-2 7.4)	2326.9	3990.9	71.5	440.6(456.5 -424.6)	335.67	539.13	60.61	58.4(60.9-55 .9)
Romania	8581.33	8911.2	3.84	38.2(51.1-2	99980.8	104457.1	4.5	440.1(455.8	13290.49	12665.35	-4.7	58.4(60.3-56

				7.6)				-424.6)				.2)
Samoa	14.02	20.71	47.69	37.7(50.2-2	159.8	242.1	51.5	438.2(454.7	22.44	31.34	39.68	58.2(60.3-5
				7.3)				-422.5)				5.8)
Paraguay	1203.82	2506.07	108.18	35.7(47.4-2	13717.7	28925.6	110.9	413.8(428.9	2023.01	4084.13	101.88	58(59.9-56)
				5.6)				-399.9)				
Belarus	3693.47	4275.1	15.75	37.5(50.8-2	43116.7	50455.4	17	436(452.2-	5759.72	6235.57	8.26	57.9(60.2-55
				7)				418.4)				.6)
Brazil	48024.34	82784.96	72.38	35.2(46.7-2	554870.9	971497.2	75.1	410.7(423.8	79423.91	134574.72	69.44	57.8(59.5-5
				5.5)				-397.8)				5.9)
Ukraine	19924.08	19796.76	-0.64	36.9(49.4-2	234151	234953.9	0.3	431.1(446.5	30678.32	29041.94	-5.33	57.7(59.7-56
				6.6)				-415.6)				)
Tuvalu	2.57	4.37	69.91	37(49.9-26.	29.5	50.4	70.7	428.4(444.3	4.22	6.87	63.02	57.5(59.7-55
				4)				-412.2)				.3)
Georgia	2073.46	1572.3	-24.17	37.4(51.1-2	23892.5	18394.4	-23	432(447.5-	3142.92	2296.63	-26.93	57.4(59.8-55
				6.9)				415)				.2)
Kazakhstan	5056.49	7198.45	42.36	37.1(49.2-2	58021.9	83228.9	43.4	429.3(445.4	8149.58	11137.49	36.66	57.2(59.5-54
				7.1)				-412.2)				.9)
South Korea	13087.36	23037.08	76.03	34.8(46.1-2	149821	268360.3	79.1	399.6(414-	21863.58	36302.11	66.04	57.2(59.3-5
				5.1)				385)				5.1)
Tonga	25.22	34.72	37.66	36.8(49.5-2	286.7	400.7	39.8	427.8(443.4	41.16	55.07	33.79	57.1(59.4-54
				6.1)				-410.9)				.9)
Micronesia	25.03	35.56	42.1	36.6(48.2-2	286	409.6	43.2	425.3(441.1	42.16	56.35	33.65	57(59.3-54.9
				6.3)				-409.5)				)
Armenia	1034.11	1281.37	23.91	37(49.3-26.	11891	14941.3	25.7	427.6(443.9	1680.78	1892.7	12.61	57(59.2-54.8
				4)				-410.9)				)
Azerbaijan	2198.13	4253.49	93.5	37(49.5-26.	25025.7	48973.1	95.7	426.3(442.1	3543.8	6491.7	83.18	56.9(59.2-54

				6)				-410.9)				.7)
Turkmenis tan	984.6	1868.24	89.75	37(49.5-27. 1)	11219.6	21379.8	90.6	424.9(441.2 -409.1)	1649.15	2921.65	77.16	56.8(59.2-54 .6)
Moldova	1430.1	1608.39	12.47	36.4(48.6-2 5.7)	16619.5	18871.7	13.6	421.3(437.7 -403.9)	2301.46	2359.7	2.53	56.6(58.9-54 .2)
Nigeria	28536.97	88465.09	210	47.4(63.3-3 4.5)	328727.5	1010163.5	207.3	551.1(569.5 -533.7)	38729.97	115536.66	198.31	56.3(58-54. 5)
Japan	48318.64	56240.24	16.39	34.2(45.7-2 4.7)	557779.8	660535.3	18.4	391.2(403.4 -379)	75051.81	85415.94	13.81	56.3(58.1-5 4.5)
Kiribati	18.36	37.62	104.85	35.2(47.3-2 4.9)	211.3	433.5	105.2	411.2(426.5 -396.6)	30.93	61.66	99.37	55.8(57.8-53 .5)
Marshall Islands	9.94	18.26	83.75	35.1(46.3-2 5.3)	113	211	86.7	410.2(425.7 -395.1)	17.22	29.84	73.21	55.6(57.8-53 .4)
Uzbekista n	5199.19	11909.06	129.06	35.4(46.7-2 5.2)	59452	136910.3	130.3	409(424-39 2.8)	8887.05	18926.19	112.96	55.4(57.7-53 .2)
Kyrgyzsta n	1240.79	2223.65	79.21	34.5(46.1-2 4.5)	14145.5	25466.9	80	397.9(413.6 -382.3)	2046.35	3607.93	76.31	54.3(56.6-52 .1)
Afghanista n	2237.64	7468.73	233.78	31.7(42.1-2 2.8)	26140.2	86155.5	229.6	375.6(389.4 -362.5)	3945.93	13536.72	243.06	53.5(55.4-51 .5)
Mongolia	499.49	1065.53	113.33	33.5(44.7-2 4.5)	5700.7	12281.2	115.4	387.7(402.3 -374.4)	871.58	1756.42	101.52	53.4(55.6-51 .2)
Tajikistan	1287.45	2988.35	132.11	32.9(44.1-2 3.5)	14616.4	34254.1	134.4	380(394.3- 365.1)	2212.98	4998.58	125.88	52.7(54.8-50 .7)
Vanuatu	32.49	86.57	166.49	32.5(43.4-2 3.6)	369.8	988.5	167.3	376.5(391.5 -362.5)	56.49	144.97	156.64	52.4(54.6-50 .4)
Papua	883.87	2773.43	213.78	31.8(41.7-2	10158	31615.1	211.2	368.3(382.6	1545.7	4704.42	204.35	51.5(53.6-49

New Guinea				2.7)				-354.7)				.3)
Solomon Islands	67.86	178.37	162.86	31.3(42.1-2.4)	772.8	2038.3	163.7	362.8(375.9-349.5)	119.28	304.29	155.1	51.1(53.2-49.2)
India	222182.39	449733.62	102.42	31.4(42.1-2.7)	2564832.2	5216088.7	103.4	365.8(377.3-354.3)	365117.64	712329.71	95.1	49.8(51.4-48.2)
Bangladesh	23274.61	50091.55	115.22	30.5(41.3-2.7)	265584.6	576489.5	117.1	352.5(364.4-341.1)	40314.84	80010.6	98.46	48.6(50.3-47)
Bhutan	129.45	225.78	74.42	29.6(39.6-2.1)	1474.1	2585.4	75.4	340.5(352.8-328.5)	226.22	362.51	60.25	47.6(49.3-46)
Nepal	3710.75	8814.73	137.55	29.3(39.1-2.3)	42570.6	101456.8	138.3	339.9(352.4-327.9)	6697.4	14420.86	115.32	47.6(49.2-45.9)
Pakistan	23502.21	61673.35	162.42	29(38.5-21.1)	268780.2	706459.5	162.8	336.4(347.8-325.4)	40870.24	103853.73	154.11	47.3(48.8-45.7)
Equatorial Guinea	74.74	421.43	463.89	33(44.3-23.7)	860.1	4820.1	460.4	385.5(401-371.4)	125.5	622.57	396.09	46.2(48-44.3)
Gabon	217.79	536.84	146.49	32.4(42.9-2.3)	2500.4	6193.4	147.7	378.2(392.5-363.6)	338.65	782.49	131.06	45.6(47.4-43.9)
Egypt	9394.49	24034.82	155.84	24.8(33.7-17.7)	106929.8	274834.5	157	286.9(297.3-276.5)	17801.75	44010.25	147.22	44.4(46.1-42.7)
Republic of Congo	501.95	1486.41	196.13	30.4(40.9-2.2)	5732.5	17054.6	197.5	353.4(366.8-339.4)	794.86	2212.11	178.3	43.6(45.2-41.8)
North Korea	3976.45	7377.75	85.54	24.1(32-17.2)	45058.3	85034.6	88.7	276.2(285.6-266.1)	7007.82	12648.15	80.49	42.1(43.5-40.7)
Angola	1771.54	7097.1	300.62	26.9(36-19.5)	20275.9	80918.3	299.1	313.1(324.8-301.2)	2983.95	11389.91	281.71	40.2(41.9-38.5)

Taiwan	3500.55	7009.34	100.24	22.7(30.1-16.5)	39633.9	81535.5	105.7	260.1(267.4-253.2)	6382.08	11951.12	87.26	40.1(41.4-38.8)
Democratic Republic of the Congo	6897.72	19093.77	176.81	25.2(34.3-18.2)	80108.6	219104	173.5	294.7(305.2-283.4)	11577.48	30831.18	166.3	38.6(40.2-36.9)
Central African Republic	468.96	1076.43	129.53	23.1(31.2-16.5)	5413.2	12354.3	128.2	270.8(282.1-260.7)	795.79	1778.73	123.52	36.4(38-34.9)
South Africa	6593.55	12170.97	84.59	21.3(28.5-15.3)	75792.2	142746.4	88.3	250.6(259.2-242.6)	10940.11	19796.89	80.96	34.5(35.6-33.4)
Botswana	199.63	486.62	143.76	21.1(28.2-15.3)	2277.4	5653.5	148.2	247.2(256.6-237.6)	344.66	797.94	131.52	34.1(35.4-32.7)
Namibia	221.24	462.6	109.09	20.8(28.2-15.1)	2516.6	5311.1	111	241.4(250.5-232.1)	376.37	764.36	103.09	33.5(34.8-32.1)
Swaziland	113.73	204.31	79.64	19.8(26.6-14.3)	1285.8	2357.5	83.4	232.5(241.2-224.1)	199.3	345.7	73.46	32.6(33.9-31.4)
Sao Tome and Principe	17.77	39.11	120.1	20(27.1-14.3)	201.9	444.5	120.2	230.5(238.4-222.9)	30.53	64.68	111.86	32.2(33.3-31.1)
Cameroon	1481.07	5135.03	246.71	19.4(26-13.9)	16893.4	58628.5	247.1	224.8(232.8-217)	2595.1	8825.92	240.1	31.7(32.8-30.6)
Cape Verde	49.78	109.42	119.8	19.5(25.7-13.7)	564.7	1256.7	122.6	224.5(232.3-216.8)	86.25	178.3	106.72	31.7(32.7-30.6)
Mauritania	288.69	705.88	144.51	18.9(25.2-13.6)	3280.1	7987.9	143.5	217.6(225.2-209.6)	504.25	1205.83	139.13	31.1(32.2-30)

Zimbabwe	1515.35	2496.7	64.76	18.7(24.8-1 3.3)	17222.8	28512.5	65.6	217.1(225.3 -209.2)	2630.68	4310.14	63.84	31.1(32.2-29 .7)
Lesotho	217.26	313.66	44.37	18.3(24.4-1 3.1)	2467.8	3658	48.2	216.3(224.8 -208.5)	378.7	540.91	42.84	31(32.2-29.7)
Ghana	2018.84	5535.93	174.21	18.3(24.9-1 3.2)	22990.6	63165.7	174.7	212(222.9- 201.1)	3592.04	9533.87	165.42	30.6(32-29.3)
Ivory Coast	1618.97	4312.15	166.35	18.3(24.5-1 3.3)	18517.4	49021.4	164.7	211.4(218.9 -204)	2907.03	7512.6	158.43	30.5(31.5-29 .4)
Togo	483.42	1331.42	175.42	18.3(24.9-1 3.2)	5496.8	15125.2	175.2	210.6(217.6 -203.2)	863.09	2301.22	166.63	30.4(31.5-29 .4)
Senegal	984.86	2436.94	147.44	17.9(24.1-1 3.2)	11227.5	27754.2	147.2	206.7(213.9 -199.8)	1772.82	4241.6	139.26	30.1(31-29)
Gambia	126.16	357.79	183.6	17.8(23.6-1 2.3)	1439.1	4058.4	182	206.3(213.5 -199.4)	227.58	625.68	174.93	30(31-28.9)
Liberia	323.01	816.3	152.72	17.4(23-12. 4)	3736	9382	151.1	203.8(210.7 -196.3)	583.69	1446.46	147.81	29.8(30.8-28 .8)
Mali	1111.02	3323	199.09	17.5(23.3-1 2.6)	12722.8	37543.5	195.1	202.3(213.2 -191.6)	2012.07	5953	195.87	29.6(30.9-28 .3)
Benin	610.62	1911.92	213.11	17.4(23-12. 6)	6962.1	21653	211	201.5(208.8 -194.9)	1108.38	3402.73	207	29.6(30.6-28 .6)
Guinea-Bi ssau	128.81	293.93	128.19	17.3(23.1-1 2.4)	1462.3	3340.6	128.4	200.6(207.4 -193.8)	231.93	524.64	126.21	29.5(30.6-28 .5)
Sierra Leone	555.28	1300.42	134.19	17.3(23.3-1 2.4)	6364.7	14759.7	131.9	200.2(206.9 -193.6)	990.23	2291.66	131.43	29.4(30.4-28 .4)
Guinea	781.65	1876.78	140.1	17.1(22.7-1 2.3)	8924.6	21272.1	138.4	197(203.5- 189.8)	1403.75	3352.89	138.85	29.1(30.1-28 .1)

Burkina Faso	1134.69	3012.76	165.51	16.3(22.2-1.6)	13004.4	34066.1	162	188(195.1-181.4)	2098.62	5459.9	160.17	28.2(29.2-27.2)
Chad	705.32	2102.03	198.03	15.5(20.8-11)	8024.6	23871.3	197.5	179.5(185.6-173.6)	1301.11	3948.38	203.46	27.3(28.2-26.4)
Niger	886.49	2776.32	213.18	14.5(19.7-10.4)	10015.8	31127.5	210.8	166.2(171.4-160.7)	1659.45	5241.64	215.87	25.8(26.7-25)
Ethiopia	5353.13	12732.76	137.86	14.3(19.2-10.3)	60888.9	144590.4	137.5	165.9(171.2-160.3)	9746.76	22743.27	133.34	24.7(25.4-23.9)
Kenya	2401.98	6044.4	151.64	14(18.8-10.2)	27057.4	68605.8	153.6	161.5(166.5-156.3)	4336.91	10669.01	146	24(24.8-23.3)
Tanzania	2625.8	6473.88	146.55	13.4(18.1-9.5)	29914.3	73730.6	146.5	155.4(164.3-147.4)	4825.41	11789.86	144.33	23.5(24.7-22.5)
Zambia	772.38	2093.2	171.01	13.2(17.6-9.5)	8736.1	23690	171.2	152.7(157.7-147.3)	1429.1	3831.51	168.11	23.3(24.1-22.4)
Comoros	46.53	91.31	96.24	13.2(17.7-9.2)	525.8	1040	97.8	151.4(156.4-146.3)	85.41	162.75	90.56	23.1(23.9-22.3)
Uganda	1558.22	4345.48	178.88	12.8(17.3-9.2)	17659.1	48894.7	176.9	147.8(152.6-142.9)	2940.21	8040.07	173.45	22.7(23.4-21.9)
Djibouti	41.85	148.3	254.33	12.8(17.6-8.9)	469.1	1674.8	257	147(151.8-142)	76.44	266.51	248.65	22.6(23.4-21.8)
Eritrea	315.91	697.77	120.87	12.3(16.6-8.9)	3556	7884.5	121.7	142.5(147.1-137.9)	592.82	1284.43	116.67	22.1(22.9-21.4)
Malawi	914.3	1940.45	112.23	12.2(16.1-8.7)	10349.3	21893.6	111.5	140.5(145.5-135.6)	1710.01	3595.38	110.25	21.9(22.7-21.1)
Madagascar	1150.43	2865.8	149.11	12(15.9-8.2)	13028.4	32226.1	147.4	138(142.8-133)	2136.34	5316.52	148.86	21.6(22.3-20.8)

Burundi	530.13	1243.32	134.53	11.6(15.4-8.2)	6007.6	14023.4	133.4	134.2(138.5-129.5)	987.57	2341.01	137.05	21.1(21.8-20.4)
South Sudan	566.85	902.71	59.25	11.4(15.3-8)	6444.9	10224.2	58.6	132.7(137.2-128.4)	1052.31	1704.43	61.97	20.9(21.7-20.2)
Mozambique	1191.47	2810.52	135.89	11.3(15-8.1)	13575.8	31889	134.9	132.5(136.9-128.4)	2265.29	5361.43	136.68	20.9(21.6-20.2)
Rwanda	550.33	1168.44	112.32	10.2(13.8-7.2)	6169.9	13190	113.8	117(122.1-111.3)	1065.91	2225.11	108.75	18.9(19.7-18.1)
Somalia	659.19	1664.45	152.5	10(13.5-7.1)	7402.1	18560.9	150.8	114.9(118.5-111.1)	1261.81	3214.55	154.76	18.6(19.2-17.9)
Germany	116239.89	149394.61	28.52	137.4(185.6-99.5)	1361441.3	1766751.8	29.8	1593.7(1652.1-1543.4)	112786.78	137846.51	22.22	143.6(148.7-139)
Switzerland	8266.87	12461.32	50.74	112.1(149.9-81)	96791.1	146598.4	51.5	1299.1(1345.1-1250.3)	8508.5	12563.15	47.65	124.8(129.1-120.7)
Monaco	40.92	55.58	35.82	111.5(148.5-81.5)	479	655.6	36.9	1288.5(1336.3-1244.2)	39.31	54.14	37.75	124.1(128.2-120)
Andorra	62.84	123.63	96.74	110.9(148.2-79.9)	724.9	1448.2	99.8	1284.3(1330.8-1239.7)	66.44	126.34	90.17	123.9(128.3-119.8)
San Marino	27.64	45.48	64.54	108.6(144.2-78.4)	321.1	535.8	66.9	1257.8(1301-1213.3)	28.71	45.81	59.55	122(126.4-117.7)
Cyprus	744.41	1772.68	138.13	108.5(145.6-77.8)	8601.2	20648.3	140.1	1253.5(1297.5-1208.9)	839.07	1844.7	119.85	121.9(126.3-118)
Luxembourg	427.94	842.24	96.81	107.4(143.7-77.9)	4988.6	9825	96.9	1241.6(1287.4-1199.6)	452.88	881.01	94.53	121(125.2-117.2)
Netherlands	16282.98	22794.99	39.99	106.6(141.7-77.5)	188619.9	267514	41.8	1231.9(1280.5-1186.7)	17325.45	23404.91	35.09	120.5(124.5-116)

Israel	4642.34	10588.11	128.08	106.3(143.4-75.9)	53430.2	122817.2	129.9	1226.9(1269.4-1187.5)	5240.51	11658.87	122.48	120.2(124.7-116.2)
Denmark	5730.25	7593.66	32.52	106.1(141-76.5)	66984	88852.6	32.6	1222.9(1264.2-1178.2)	6024.94	7803.07	29.51	119.9(124.3-115.8)
Austria	8436.77	11767.19	39.47	105.1(140-75.7)	98567.1	137940.4	39.9	1213(1255.1-1170.1)	9016.53	12161.11	34.88	119.4(123.4-115.2)
Malta	367.25	586.67	59.75	105.1(140-75.5)	4252.3	6888.1	62	1211.8(1256.9-1171.5)	408.07	592.95	45.31	119.3(123.2-115.3)
France	59402.82	83972.37	41.36	104.6(139.4-74.4)	693448.1	990073.3	42.8	1213.8(1256.1-1170.5)	64499.07	86918.02	34.76	119.2(123.5-115.1)
Ireland	3335.61	6042.94	81.16	104.6(140.4-75.9)	38753.9	70635.9	82.3	1211.8(1256.3-1169.7)	3791.33	6442.24	69.92	119.1(123.4-115.2)
Belgium	10754.13	14593.65	35.7	104.3(139.4-75.6)	125286.7	171654.7	37	1206.3(1247.9-1166.2)	11495.57	15178.69	32.04	118.8(122.9-115)
Greece	10996.98	13360.92	21.5	103.2(138-75.1)	127790.8	157385.4	23.2	1193.1(1236.6-1153.8)	11903.1	13566.78	13.98	118(121.8-113.9)
Iceland	238.53	412.75	73.04	101.2(135.1-73.3)	2757.5	4804.1	74.2	1165.9(1209.2-1125.7)	268.36	443.85	65.39	116.3(120.6-112.1)
Finland	5173.02	6894.26	33.27	100.1(134.1-71.8)	60384.4	81398.5	34.8	1159.3(1200.1-1121.5)	5633.23	7138.48	26.72	115.9(119.9-111.9)
Portugal	9703.35	13401.96	38.12	98.5(130.2-70.4)	113670	158342.6	39.3	1142.4(1184.5-1101)	10963.54	13895.06	26.74	114.7(118.7-110.8)
UK	51143.17	73776.19	44.25	90.2(120.6-65.3)	596932.3	867722.5	45.4	1046.7(1080.3-1013)	58226.74	81325.72	39.67	108.1(111.5-104.8)
Ecuador	6681.28	16308.5	144.09	90.9(121.6-65.2)	75927.7	187642.1	147.1	1048.6(1086.8-1008.6)	8601.11	19230.96	123.59	107(110.9-102.7)

Peru	14067.31	32589.61	131.67	89.5(119.7- 64.9)	160362.4	374462.6	133.5	1029.5(106 7.9-992.9)	18349.83	38530.29	109.98	105.8(109. 8-101.8)
USA	220663.58	326749.4 8	48.08	83.6(110.7- 60.9)	2579771.3	3906305.1	51.4	983.5(1003. 3-965.1)	254425.18	380893.24	49.71	104(106.6- 101.4)

Abbreviations: ASR: Age-standardized rate. DALYs: Disability-adjusted life-years.

Table S7. AAPC for ASPR, ASIR and ASDR in different countries, from 1990 to 2021

Nation	AAPC(95%CI)_ASIR	AAPC(95%CI)_ASPR	AAPC(95%CI)_ASDR
Republic of Equatorial Guinea	0.969(0.947-0.991)	1.344(1.311-1.377)	1.347(1.28-1.413)
Sultanate of Oman	0.762(0.757-0.767)	0.96(0.954-0.967)	0.967(0.939-0.995)
Republic of Maldives	0.752(0.744-0.76)	0.918(0.91-0.926)	0.936(0.89-0.982)
People's Republic of China	0.743(0.725-0.762)	0.877(0.852-0.901)	0.883(0.857-0.908)
Kingdom of Saudi Arabia	0.725(0.718-0.731)	0.906(0.898-0.915)	0.892(0.862-0.922)
Taiwan (Province of China)	0.723(0.694-0.752)	0.821(0.782-0.859)	0.79(0.742-0.837)
Republic of Sudan	0.711(0.706-0.717)	0.88(0.876-0.884)	0.873(0.838-0.908)
Republic of Turkey	0.695(0.688-0.703)	0.856(0.847-0.864)	0.848(0.81-0.886)
Republic of Iraq	0.691(0.679-0.704)	0.852(0.837-0.867)	0.824(0.807-0.841)
Republic of Yemen	0.646(0.642-0.651)	0.773(0.765-0.78)	0.77(0.745-0.794)
Islamic Republic of Iran	0.645(0.634-0.656)	0.775(0.765-0.785)	0.771(0.752-0.79)
Federal Democratic Republic of Nepal	0.642(0.607-0.677)	0.822(0.773-0.872)	0.842(0.771-0.913)
Syrian Arab Republic	0.64(0.633-0.648)	0.783(0.775-0.791)	0.752(0.72-0.783)
Palestine	0.628(0.623-0.634)	0.752(0.744-0.759)	0.721(0.696-0.747)
Democratic Republic of Timor-Leste	0.611(0.596-0.626)	0.773(0.754-0.792)	0.778(0.71-0.846)
United Arab Emirates	0.611(0.601-0.62)	0.728(0.716-0.74)	0.729(0.688-0.77)
State of Libya	0.604(0.592-0.616)	0.718(0.703-0.733)	0.685(0.652-0.718)
State of Qatar	0.598(0.591-0.605)	0.703(0.695-0.712)	0.688(0.676-0.7)
Republic of Tunisia	0.597(0.589-0.605)	0.706(0.702-0.71)	0.677(0.641-0.714)
Lebanese Republic	0.594(0.589-0.599)	0.695(0.691-0.7)	0.677(0.646-0.707)
Arab Republic of Egypt	0.59(0.568-0.611)	0.655(0.635-0.675)	0.653(0.603-0.703)
Lao People's Democratic Republic	0.582(0.576-0.589)	0.721(0.715-0.728)	0.749(0.718-0.78)
Republic of the Union of Myanmar	0.581(0.572-0.59)	0.729(0.721-0.736)	0.749(0.72-0.779)
Democratic People's Republic of Korea	0.579(0.575-0.584)	0.609(0.601-0.618)	0.602(0.583-0.621)

Socialist Republic of Viet Nam	0.577(0.568-0.585)	0.714(0.708-0.72)	0.729(0.689-0.77)
Tokelau	0.569(0.559-0.58)	0.684(0.677-0.691)	0.654(0.619-0.688)
Republic of Angola	0.563(0.548-0.579)	0.736(0.726-0.746)	0.74(0.708-0.771)
Gabonese Republic	0.556(0.544-0.568)	0.731(0.722-0.74)	0.719(0.692-0.746)
Kingdom of Cambodia	0.547(0.538-0.555)	0.652(0.644-0.659)	0.668(0.643-0.694)
Kingdom of Morocco	0.539(0.535-0.543)	0.612(0.605-0.618)	0.585(0.546-0.625)
People's Democratic Republic of Algeria	0.539(0.529-0.549)	0.613(0.608-0.618)	0.613(0.592-0.633)
Tuvalu	0.529(0.52-0.538)	0.594(0.589-0.599)	0.59(0.543-0.637)
Kingdom of Bahrain	0.527(0.519-0.535)	0.592(0.585-0.599)	0.581(0.547-0.614)
Bosnia and Herzegovina	0.526(0.498-0.555)	0.728(0.698-0.758)	0.719(0.674-0.764)
Republic of Indonesia	0.518(0.502-0.534)	0.64(0.622-0.658)	0.644(0.624-0.664)
Hashemite Kingdom of Jordan	0.509(0.494-0.524)	0.568(0.564-0.572)	0.562(0.545-0.578)
State of Kuwait	0.503(0.495-0.512)	0.57(0.557-0.583)	0.547(0.507-0.587)
Federal Republic of Nigeria	0.486(0.462-0.51)	0.629(0.606-0.652)	0.646(0.616-0.676)
Malaysia	0.481(0.464-0.498)	0.577(0.552-0.603)	0.573(0.524-0.621)
Republic of Lithuania	0.473(0.45-0.496)	0.622(0.599-0.644)	0.61(0.539-0.681)
Kingdom of Bhutan	0.47(0.463-0.477)	0.561(0.555-0.567)	0.582(0.556-0.608)
Democratic Socialist Republic of Sri Lanka	0.469(0.459-0.48)	0.569(0.552-0.586)	0.559(0.524-0.595)
Republic of Chile	0.461(0.41-0.512)	0.522(0.519-0.525)	0.51(0.482-0.537)
Kingdom of Thailand	0.458(0.447-0.469)	0.55(0.542-0.558)	0.561(0.532-0.59)
Islamic Republic of Afghanistan	0.454(0.443-0.465)	0.472(0.453-0.49)	0.462(0.447-0.477)
Republic of the Congo	0.454(0.431-0.478)	0.586(0.572-0.6)	0.582(0.554-0.61)
Republic of Mauritius	0.453(0.443-0.463)	0.538(0.532-0.544)	0.526(0.482-0.569)
Republic of Niue	0.452(0.442-0.461)	0.538(0.529-0.546)	0.527(0.514-0.54)
Republic of Cyprus	0.451(0.392-0.509)	0.544(0.527-0.561)	0.543(0.532-0.554)
Plurinational State of Bolivia	0.442(0.427-0.456)	0.599(0.589-0.61)	0.604(0.582-0.625)

Republic of Fiji	0.438(0.428-0.447)	0.506(0.493-0.519)	0.468(0.426-0.511)
Republic of Estonia	0.431(0.41-0.453)	0.565(0.548-0.583)	0.572(0.539-0.606)
Republic of Peru	0.427(0.408-0.446)	0.562(0.541-0.583)	0.563(0.516-0.61)
Cook Islands	0.424(0.411-0.436)	0.507(0.497-0.516)	0.483(0.434-0.533)
People's Republic of Bangladesh	0.424(0.418-0.431)	0.49(0.483-0.497)	0.496(0.481-0.51)
Kingdom of Tonga	0.423(0.414-0.431)	0.479(0.475-0.483)	0.455(0.407-0.503)
Greenland	0.416(0.368-0.464)	0.425(0.419-0.431)	0.422(0.401-0.442)
Republic of Armenia	0.416(0.395-0.436)	0.534(0.502-0.565)	0.529(0.461-0.598)
Australia	0.415(0.376-0.454)	0.466(0.433-0.5)	0.457(0.42-0.494)
Solomon Islands	0.413(0.407-0.419)	0.457(0.448-0.465)	0.449(0.413-0.484)
Ireland	0.411(0.384-0.439)	0.46(0.455-0.465)	0.462(0.434-0.491)
Republic of Albania	0.407(0.38-0.435)	0.521(0.496-0.546)	0.522(0.49-0.553)
Republic of Seychelles	0.405(0.393-0.417)	0.474(0.454-0.494)	0.46(0.431-0.489)
Federated States of Micronesia	0.402(0.394-0.411)	0.453(0.442-0.463)	0.453(0.434-0.472)
Republic of Ecuador	0.4(0.391-0.408)	0.515(0.505-0.526)	0.511(0.476-0.546)
Republic of Malta	0.4(0.372-0.428)	0.442(0.435-0.45)	0.444(0.436-0.452)
Portuguese Republic	0.399(0.354-0.444)	0.452(0.446-0.457)	0.462(0.445-0.479)
Republic of Serbia	0.394(0.373-0.414)	0.523(0.503-0.542)	0.518(0.467-0.568)
Republic of Korea	0.393(0.323-0.462)	0.421(0.405-0.438)	0.448(0.402-0.493)
Republic of Palau	0.392(0.371-0.414)	0.422(0.403-0.44)	0.413(0.387-0.438)
Slovak Republic	0.392(0.374-0.41)	0.519(0.5-0.538)	0.534(0.519-0.548)
Islamic Republic of Pakistan	0.391(0.385-0.397)	0.435(0.43-0.44)	0.435(0.423-0.446)
Hungary	0.39(0.375-0.405)	0.515(0.497-0.534)	0.534(0.505-0.564)
North Macedonia	0.39(0.37-0.411)	0.508(0.49-0.526)	0.493(0.429-0.557)
Republic of the Marshall Islands	0.39(0.381-0.398)	0.447(0.439-0.456)	0.428(0.401-0.454)
Republic of Uzbekistan	0.39(0.37-0.409)	0.487(0.469-0.504)	0.497(0.44-0.553)

United Kingdom of Great Britain and Northern Ireland	0.39(0.321-0.46)	0.45(0.401-0.498)	0.439(0.38-0.498)
Mongolia	0.387(0.361-0.414)	0.487(0.468-0.507)	0.484(0.443-0.526)
Republic of Belarus	0.383(0.358-0.409)	0.488(0.477-0.499)	0.48(0.436-0.524)
Republic of Vanuatu	0.383(0.376-0.39)	0.423(0.415-0.432)	0.43(0.397-0.462)
Republic of Latvia	0.382(0.354-0.411)	0.488(0.469-0.507)	0.5(0.461-0.539)
Republic of Guatemala	0.381(0.372-0.389)	0.506(0.499-0.513)	0.504(0.483-0.525)
Independent State of Papua New Guinea	0.378(0.37-0.386)	0.426(0.418-0.435)	0.458(0.427-0.489)
Canada	0.375(0.34-0.41)	0.369(0.364-0.374)	0.361(0.344-0.379)
Independent State of Samoa	0.375(0.368-0.383)	0.411(0.407-0.416)	0.412(0.39-0.433)
Republic of Croatia	0.375(0.353-0.398)	0.479(0.454-0.505)	0.468(0.397-0.538)
Republic of Singapore	0.375(0.333-0.417)	0.386(0.372-0.4)	0.385(0.318-0.452)
Czech Republic	0.374(0.36-0.387)	0.488(0.473-0.504)	0.495(0.455-0.535)
French Republic	0.374(0.31-0.438)	0.412(0.391-0.434)	0.404(0.358-0.45)
Republic of Bulgaria	0.374(0.356-0.391)	0.487(0.472-0.503)	0.482(0.432-0.532)
Republic of Kiribati	0.374(0.364-0.385)	0.414(0.408-0.419)	0.429(0.408-0.45)
Republic of Nauru	0.374(0.363-0.386)	0.408(0.385-0.431)	0.379(0.32-0.437)
Republic of the Philippines	0.371(0.365-0.377)	0.413(0.408-0.419)	0.42(0.409-0.431)
Republic of Moldova	0.37(0.345-0.395)	0.467(0.455-0.479)	0.485(0.421-0.549)
Argentine Republic	0.367(0.3-0.433)	0.384(0.367-0.401)	0.372(0.347-0.397)
Guam	0.366(0.34-0.392)	0.425(0.388-0.462)	0.411(0.355-0.467)
New Zealand	0.366(0.307-0.425)	0.387(0.38-0.394)	0.412(0.384-0.44)
Republic of Cabo Verde	0.365(0.322-0.407)	0.446(0.417-0.476)	0.436(0.38-0.491)
Republic of Botswana	0.364(0.348-0.379)	0.434(0.403-0.464)	0.401(0.348-0.453)
Grenada	0.363(0.347-0.38)	0.494(0.486-0.502)	0.476(0.456-0.495)
Hellenic Republic	0.358(0.324-0.393)	0.378(0.367-0.389)	0.374(0.362-0.385)

Republic of Slovenia	0.358(0.342-0.374)	0.449(0.435-0.464)	0.458(0.381-0.535)
Kingdom of Belgium	0.353(0.313-0.393)	0.375(0.368-0.382)	0.365(0.348-0.382)
Federal Republic of Germany	0.351(0.286-0.417)	0.359(0.328-0.391)	0.369(0.324-0.414)
Russian Federation	0.349(0.32-0.378)	0.436(0.425-0.447)	0.438(0.41-0.466)
Eastern Republic of Uruguay	0.345(0.307-0.382)	0.346(0.341-0.352)	0.344(0.301-0.386)
Republic of Kazakhstan	0.338(0.311-0.365)	0.421(0.409-0.432)	0.416(0.382-0.451)
Republic of El Salvador	0.336(0.322-0.35)	0.435(0.414-0.455)	0.45(0.428-0.471)
Republic of Finland	0.336(0.311-0.362)	0.342(0.333-0.351)	0.35(0.346-0.354)
Montenegro	0.332(0.297-0.367)	0.415(0.376-0.455)	0.421(0.369-0.473)
Republic of Nicaragua	0.331(0.308-0.355)	0.423(0.413-0.433)	0.418(0.379-0.456)
Republic of Austria	0.329(0.299-0.358)	0.333(0.328-0.337)	0.338(0.325-0.351)
Republic of Iceland	0.329(0.3-0.358)	0.329(0.32-0.338)	0.338(0.326-0.35)
Grand Duchy of Luxembourg	0.327(0.285-0.369)	0.336(0.329-0.343)	0.343(0.328-0.359)
Turkmenistan	0.325(0.298-0.351)	0.395(0.379-0.412)	0.403(0.364-0.442)
Romania	0.323(0.307-0.34)	0.396(0.374-0.419)	0.421(0.375-0.466)
Republic of Azerbaijan	0.319(0.304-0.335)	0.385(0.375-0.395)	0.379(0.331-0.426)
American Samoa	0.318(0.306-0.329)	0.346(0.341-0.351)	0.323(0.309-0.337)
Republic of Honduras	0.315(0.306-0.323)	0.403(0.397-0.41)	0.398(0.372-0.424)
Kingdom of Denmark	0.313(0.288-0.337)	0.306(0.298-0.313)	0.319(0.312-0.326)
Republic of Guyana	0.313(0.287-0.34)	0.42(0.415-0.425)	0.419(0.359-0.479)
Kingdom of the Netherlands	0.312(0.268-0.356)	0.314(0.308-0.321)	0.302(0.28-0.323)
Saint Lucia	0.31(0.297-0.323)	0.403(0.394-0.413)	0.401(0.381-0.422)
State of Israel	0.309(0.275-0.343)	0.303(0.299-0.307)	0.293(0.273-0.313)
Belize	0.308(0.297-0.319)	0.402(0.394-0.411)	0.395(0.373-0.417)
Kingdom of Eswatini	0.307(0.281-0.334)	0.36(0.325-0.394)	0.309(0.259-0.36)
Kingdom of Lesotho	0.306(0.282-0.331)	0.343(0.31-0.376)	0.268(0.228-0.308)

Dominican Republic	0.301(0.285-0.316)	0.39(0.38-0.399)	0.374(0.352-0.395)
Democratic Republic of Sao Tome and Principe	0.299(0.267-0.332)	0.343(0.317-0.37)	0.327(0.267-0.387)
Brunei Darussalam	0.295(0.252-0.338)	0.252(0.242-0.262)	0.238(0.18-0.296)
Republic of Ghana	0.295(0.269-0.321)	0.332(0.299-0.364)	0.335(0.252-0.419)
Democratic Republic of the Congo	0.29(0.272-0.308)	0.328(0.314-0.342)	0.366(0.319-0.413)
Commonwealth of Dominica	0.286(0.275-0.297)	0.371(0.367-0.376)	0.359(0.342-0.376)
Republic of Poland	0.285(0.269-0.302)	0.362(0.349-0.374)	0.374(0.355-0.393)
Saint Vincent and the Grenadines	0.281(0.27-0.293)	0.362(0.355-0.369)	0.345(0.326-0.363)
Saint Kitts and Nevis	0.279(0.271-0.287)	0.362(0.356-0.367)	0.354(0.336-0.371)
Kingdom of Spain	0.277(0.227-0.327)	0.281(0.26-0.302)	0.286(0.217-0.354)
Islamic Republic of Mauritania	0.271(0.245-0.298)	0.297(0.232-0.363)	0.298(0.248-0.347)
Antigua and Barbuda	0.27(0.257-0.284)	0.343(0.332-0.353)	0.318(0.272-0.363)
Republic of Colombia	0.27(0.252-0.287)	0.343(0.335-0.351)	0.357(0.327-0.386)
Central African Republic	0.269(0.251-0.286)	0.296(0.284-0.309)	0.319(0.295-0.342)
Principality of Monaco	0.269(0.245-0.293)	0.236(0.231-0.24)	0.224(0.213-0.235)
Swiss Confederation	0.269(0.241-0.297)	0.243(0.235-0.251)	0.251(0.236-0.265)
Ukraine	0.268(0.242-0.294)	0.318(0.31-0.327)	0.317(0.282-0.353)
Republic of Senegal	0.266(0.241-0.291)	0.288(0.255-0.32)	0.3(0.243-0.356)
Principality of Andorra	0.265(0.238-0.291)	0.228(0.219-0.237)	0.214(0.202-0.227)
Republic of San Marino	0.264(0.239-0.289)	0.235(0.23-0.239)	0.219(0.204-0.235)
Puerto Rico	0.262(0.251-0.273)	0.335(0.327-0.343)	0.328(0.284-0.373)
Republic of Mali	0.26(0.22-0.3)	0.272(0.226-0.318)	0.301(0.249-0.353)
Republic of Cameroon	0.259(0.218-0.3)	0.284(0.215-0.353)	0.281(0.209-0.352)
Republic of Namibia	0.259(0.225-0.293)	0.288(0.254-0.322)	0.265(0.227-0.303)
United Mexican States	0.256(0.241-0.271)	0.314(0.309-0.32)	0.316(0.307-0.324)

Republic of Costa Rica	0.253(0.232-0.275)	0.316(0.313-0.319)	0.304(0.28-0.328)
Republic of Panama	0.25(0.235-0.264)	0.312(0.306-0.318)	0.31(0.291-0.329)
Republic of the Gambia	0.25(0.206-0.294)	0.272(0.242-0.301)	0.283(0.224-0.342)
Republic of Tajikistan	0.245(0.224-0.265)	0.273(0.26-0.285)	0.261(0.2-0.322)
Republic of Trinidad and Tobago	0.245(0.236-0.254)	0.307(0.299-0.315)	0.289(0.267-0.31)
Jamaica	0.24(0.228-0.251)	0.295(0.291-0.299)	0.287(0.273-0.302)
Republic of Italy	0.24(0.188-0.292)	0.205(0.174-0.236)	0.22(0.183-0.256)
Ivoire Coast	0.239(0.215-0.262)	0.242(0.212-0.272)	0.298(0.231-0.365)
Kingdom of Norway	0.236(0.192-0.28)	0.168(0.16-0.176)	0.177(0.164-0.19)
Kyrgyz Republic	0.23(0.209-0.251)	0.254(0.24-0.267)	0.25(0.222-0.279)
Republic of Liberia	0.229(0.206-0.253)	0.222(0.192-0.253)	0.24(0.196-0.283)
Republic of Guinea	0.228(0.185-0.272)	0.23(0.187-0.272)	0.235(0.192-0.278)
Burkina Faso	0.226(0.202-0.251)	0.229(0.201-0.258)	0.275(0.215-0.336)
Northern Mariana Islands	0.224(0.188-0.259)	0.228(0.177-0.278)	0.212(0.139-0.284)
Republic of Guinea-Bissau	0.223(0.176-0.27)	0.229(0.19-0.269)	0.23(0.18-0.281)
Republic of Haiti	0.217(0.208-0.227)	0.254(0.247-0.261)	0.246(0.21-0.282)
Republic of Benin	0.216(0.169-0.262)	0.22(0.184-0.256)	0.246(0.209-0.283)
Republic of Suriname	0.216(0.204-0.228)	0.258(0.253-0.263)	0.241(0.201-0.28)
Togolese Republic	0.216(0.167-0.264)	0.205(0.145-0.265)	0.213(0.161-0.265)
Republic of India	0.215(0.179-0.25)	0.174(0.121-0.227)	0.189(0.139-0.238)
United States of America	0.214(0.163-0.265)	0.128(0.113-0.143)	0.089(0.076-0.101)
United States Virgin Islands	0.213(0.202-0.223)	0.264(0.257-0.272)	0.235(0.185-0.285)
Bermuda	0.206(0.194-0.217)	0.243(0.235-0.252)	0.235(0.201-0.269)
Republic of Uganda	0.204(0.185-0.222)	0.225(0.202-0.248)	0.252(0.226-0.277)
Republic of Sierra Leone	0.199(0.147-0.252)	0.178(0.111-0.246)	0.199(0.143-0.255)
Georgia	0.195(0.179-0.212)	0.21(0.193-0.227)	0.206(0.174-0.237)

Republic of South Africa	0.191(0.18-0.202)	0.195(0.177-0.214)	0.156(0.13-0.181)
Kingdom of Sweden	0.177(0.104-0.251)	0.102(0.094-0.111)	0.104(0.07-0.138)
Republic of Chad	0.171(0.148-0.195)	0.144(0.11-0.177)	0.146(0.08-0.212)
Commonwealth of the Bahamas	0.168(0.156-0.18)	0.185(0.169-0.202)	0.167(0.137-0.197)
Bolivarian Republic of Venezuela	0.152(0.136-0.169)	0.165(0.152-0.178)	0.16(0.12-0.201)
Japan	0.149(0.078-0.219)	0.064(0.043-0.086)	0.072(0.052-0.092)
Federal Democratic Republic of Ethiopia	0.139(0.126-0.153)	0.141(0.128-0.153)	0.155(0.126-0.183)
Republic of Cuba	0.135(0.126-0.144)	0.131(0.126-0.137)	0.131(0.102-0.159)
State of Eritrea	0.131(0.12-0.142)	0.13(0.112-0.148)	0.149(0.129-0.168)
Republic of Zambia	0.128(0.106-0.149)	0.122(0.097-0.146)	0.124(0.043-0.204)
Barbados	0.125(0.118-0.132)	0.118(0.111-0.125)	0.116(0.091-0.14)
Union of the Comoros	0.119(0.104-0.135)	0.113(0.095-0.131)	0.104(0.055-0.152)
Republic of Rwanda	0.115(0.082-0.148)	0.111(0.073-0.148)	0.1(0.045-0.156)
Republic of Mozambique	0.109(0.096-0.121)	0.099(0.084-0.114)	0.079(0.038-0.12)
United Republic of Tanzania	0.107(0.093-0.121)	0.091(0.076-0.106)	0.102(0.048-0.156)
Republic of Kenya	0.103(0.092-0.114)	0.094(0.076-0.113)	0.091(0.069-0.112)
Republic of Paraguay	0.102(0.095-0.109)	0.092(0.085-0.099)	0.077(0.044-0.11)
Republic of Zimbabwe	0.091(0.079-0.103)	0.048(0.031-0.064)	0.038(-0.037-0.113)
Republic of Djibouti	0.088(0.063-0.114)	0.069(0.057-0.082)	0.076(0.053-0.099)
Republic of the Niger	0.078(0.05-0.106)	0.019(-0.018-0.056)	0.034(-0.012-0.079)
Republic of Malawi	0.076(0.052-0.099)	0.053(0.027-0.079)	0.064(0.006-0.122)
Federative Republic of Brazil	0.013(0.005-0.022)	-0.04(-0.044--0.037)	-0.041(-0.061--0.021)
Republic of Madagascar	-0.01(-0.022-0.002)	-0.058(-0.069--0.047)	-0.028(-0.046--0.01)
Republic of Burundi	-0.09(-0.11--0.071)	-0.167(-0.185--0.149)	-0.167(-0.199--0.135)
Republic of South Sudan	-0.093(-0.106--0.08)	-0.177(-0.19--0.165)	-0.169(-0.199--0.139)
Federal Republic of Somalia	-0.194(-0.21--0.179)	-0.252(-0.26--0.244)	-0.236(-0.259--0.213)

