

Additional File 3: Akaike Information Criterion (AIC) scores for different modeling fits of COVID-19 incidence trajectories per country.

Time-dependent increases in COVID-19 incidence in each country was modeled by 5 different fits (logistic, log-logistic, Gompertz, exponential and quadratic) and the AIC for each fit was obtained. The fit with the lowest AIC was considered the best descriptor of COVID-19 incidence trajectory for that country. E=exponential, G=Gompertz, L=logistic, LL=log logistic, Q=quadratic

iso_code	location	aic_exponenti al_aomisc	aic_quadrat ic_aomisc	aic_gomper tz	aic_logistic	aic_loglogi stic	min_aic	min_mod el
ARG	Argentina	-519.4359	-293.1	-399.3947	-510.3414	-429.7279	-519.4359	E
ARM	Armenia	-575.4335	-281.2955	-429.9532	-569.1829	-481.008	-575.4335	E
KEN	Kenya	-492.1391	-264.4357	-364.1499	-483.4558	-403.5553	-492.1391	E
MOZ	Mozambique	-347.0875	-234.0068	-286.808	-341.6595	-297.3055	-347.0875	E
OMN	Oman	-608.6447	-266.261	-469.5128	-598.7713	-514.9805	-608.6447	E
SYR	Syria	-189.9028	-169.8439	-177.1733	-185.3791	-173.7686	-189.9028	E
ABW	Aruba	-37.1124	-179.6666	-383.5624	-375.8171	-370.1277	-383.5624	G
AUS	Australia	288.8622	-98.56375	-721.5018	-630.9336	-679.4295	-721.5018	G
BHS	Bahamas	-65.48152	-286.1183	-460.9797	-436.6443	-454.0847	-460.9797	G
BLR	Belarus	124.3315	-417.2244	-719.0496	-532.2615	-639.1237	-719.0496	G
BEL	Belgium	236.721	-192.2218	-928.5873	-653.8464	-813.9948	-928.5873	G
KHM	Cambodia	293.3314	-92.24171	-560.7456	-539.0694	-553.1181	-560.7456	G
CAN	Canada	-240.6206	-403.0425	-1043.556	-728.9181	-874.5596	-1043.556	G
COM	Comoros	-65.00342	-88.53149	-109.4742	-103.4227	-107.8058	-109.4742	G
HRV	Croatia	236.2205	-177.6417	-694.42	-503.2007	-659.0569	-694.42	G
FIN	Finland	222.1002	-275.2527	-926.8893	-716.9593	-885.2132	-926.8893	G
FRA	France	-91.54441	-188.9969	-810.3587	-629.3746	-735.6116	-810.3587	G
DEU	Germany	-71.38762	-169.7339	-834.1931	-607.9412	-724.5686	-834.1931	G
GIN	Guinea	131.4185	-336.2047	-560.8072	-471.5141	-554.1017	-560.8072	G
GNB	Guinea-Bissau	-89.86203	-146.9462	-359.1439	-303.4059	-334.8317	-359.1439	G
ISR	Israel	224.026	-164.021	-598.7116	-502.0449	-586.4122	-598.7116	G
ITA	Italy	260.8388	-210.9075	-934.4075	-631.0801	-808.6129	-934.4075	G
MYS	Malaysia	230.397	-275.1989	-607.1743	-504.8873	-576.6348	-607.1743	G
MDV	Maldives	-203.4072	-322.667	-441.595	-390.2536	-419.5333	-441.595	G
MRT	Mauritania	-368.8885	-156.8842	-449.6888	-447.4561	-407.1135	-449.6888	G
NZL	New Zealand	240.2938	-124.1334	-623.8233	-474.6146	-590.2486	-623.8233	G
NIC	Nicaragua	-182.5548	-112.206	-284.0722	-269.6554	-273.2338	-284.0722	G
NGA	Nigeria	93.12115	-373.688	-588.4661	-506.709	-564.1186	-588.4661	G
PSE	Palestine	-106.5762	-242.5927	-337.1454	-335.8945	-336.1737	-337.1454	G
ROU	Romania	179.5701	-286.4403	-694.1917	-514.8765	-676.8608	-694.1917	G
RUS	Russia	120.7514	-423.8718	-1019.606	-787.6958	-896.9339	-1019.606	G
SGP	Singapore	-282.7371	-412.8369	-835.0261	-680.2723	-742.8103	-835.0261	G
SVN	Slovenia	-36.25767	-330.946	-594.9116	-515.0559	-524.3848	-594.9116	G
SOM	Somalia	115.8344	-336.8206	-448.8508	-382.0417	-441.0927	-448.8508	G
KOR	South Korea	317.3303	-217.9089	-547.1069	-468.4442	-527.6811	-547.1069	G
ESP	Spain	-51.42859	-159.2056	-788.6015	-583.0118	-702.1987	-788.6015	G
SUR	Suriname	-210.2892	-92.87623	-426.363	-401.3942	-294.6721	-426.363	G
SWZ	Swaziland	-204.057	-304.9156	-393.6947	-357.9433	-383.835	-393.6947	G
SWE	Sweden	152.1216	-599.7472	-701.6013	-608.5926	-684.5854	-701.6013	G
THA	Thailand	288.6975	-121.0405	-842.2996	-688.2195	-752.1801	-842.2996	G
TTO	Trinidad and Tobago	-13.16185	-153.3113	-377.3256	-362.5323	-375.8425	-377.3256	G
UKR	Ukraine	134.5356	-352.3908	-521.3244	-448.8891	-514.2782	-521.3244	G
ARE	United Arab Emirates	-391.183	-518.4	-884.4118	-764.0728	-846.7397	-884.4118	G
GBR	United Kingdom	-196.4518	-330.2519	-994.419	-690.1365	-830.009	-994.419	G
USA	United States	-276.3895	-457.1768	-831.8523	-647.3242	-739.3606	-831.8523	G
VNM	Vietnam	-83.79162	-198.6398	-453.4304	-421.9267	-449.511	-453.4304	G
YEM	Yemen	-192.2829	-278.6972	-304.3151	-276.8409	-302.5162	-304.3151	G
AFG	Afghanistan	75.20697	-267.3883	-659.0859	-769.6437	-684.1644	-769.6437	L
DZA	Algeria	147.8677	-465.995	-591.062	-604.5712	-598.3841	-604.5712	L
AZE	Azerbaijan	-433.3739	-325.4042	-385.118	-438.5728	-381.3475	-438.5728	L
BOL	Bolivia	-441.4922	-270.6955	-532.805	-606.7738	-553.4904	-606.7738	L
BRA	Brazil	-533.6372	-324.3367	-783.4708	-819.0281	-799.8339	-819.0281	L
BRN	Brunei	-58.41021	-170.1948	-475.4641	-486.5877	-431.1208	-486.5877	L
BGR	Bulgaria	-175.6322	-324.4719	-451.9472	-483.2497	-450.2278	-483.2497	L
CMR	Cameroon	-422.8009	-341.5096	-418.6513	-463.6158	-415.0359	-463.6158	L
CHL	Chile	73.63594	-291.1997	-541.8297	-623.6542	-562.9857	-623.6542	L
COL	Colombia	-531.4528	-339.0274	-575.0414	-717.6664	-556.521	-717.6664	L
COD	Democratic Republic of Congo	-423.7926	-328.8589	-514.3976	-585.9027	-527.1454	-585.9027	L
DJI	Djibouti	96.86081	-222.5696	-245.858	-261.3541	-240.2804	-261.3541	L
EGY	Egypt	-715.9543	-330.8873	-620.4612	-792.0326	-676.7329	-792.0326	L
SLV	El Salvador	-284.1813	-393.5157	-492.6497	-538.6895	-518.8214	-538.6895	L

GNQ	Equatorial Guinea	-184.848	-268.3965	-295.3989	-308.0626	-300.4626	-308.0626	L
ETH	Ethiopia	-444.8667	-179.1884	-394.9899	-478.6834	-457.0415	-478.6834	L
FRO	Faeroe Islands	-134.314	-202.9913	-533.1052	-536.7499	-484.6154	-536.7499	L
GAB	Gabon	-249.4319	-306.1942	-463.4074	-525.2767	-510.8885	-525.2767	L
GTM	Guatemala	-415.1563	-256.3496	-493.8615	-527.1234	-503.6336	-527.1234	L
HND	Honduras	-339.1489	-349.3233	-459.1551	-504.7013	-483.6571	-504.7013	L
ISL	Iceland	5.018274	-203.7473	-521.6432	-712.5129	-569.628	-712.5129	L
IRQ	Iraq	-358.9644	-240.274	-303.2333	-378.603	-345.369	-378.603	L
JPN	Japan	249.7093	-211.0231	-754.037	-857.9649	-851.9757	-857.9649	L
KWT	Kuwait	-330.3434	-325.5369	-574.0966	-708.6893	-665.4664	-708.6893	L
LBY	Libya	-182.2106	-144.7013	-208.2521	-222.5981	-213.555	-222.5981	L
MDG	Madagascar	-321.841	-211.1728	-340.4128	-367.9508	-354.516	-367.9508	L
MWI	Malawi	-179.9557	-118.7264	-214.8729	-227.7988	-224.5619	-227.7988	L
MUS	Mauritius	-13.44839	-148.1111	-349.7391	-394.3464	-334.7457	-394.3464	L
MNG	Mongolia	-160.9919	-173.3632	-207.5932	-216.8627	-213.2572	-216.8627	L
MNE	Montenegro	-9.9015	-194.5633	-417.6422	-439.3091	-411.5469	-439.3091	L
NPL	Nepal	-772.5703	-186.6951	-736.8629	-812.4892	-694.3476	-812.4892	L
PAK	Pakistan	72.11925	-357.1864	-569.8906	-597.6492	-589.1561	-597.6492	L
PRY	Paraguay	-203.8209	-278.1733	-306.3096	-326.5595	-321.2364	-326.5595	L
PRI	Puerto Rico	-296.0552	-320.6779	-325.3588	-344.4649	-303.7455	-344.4649	L
SMR	San Marino	-107.0072	-322.8579	-454.8554	-485.0689	-433.3266	-485.0689	L
SLE	Sierra Leone	-161.5772	-268.5225	-390.1726	-429.0014	-394.2264	-429.0014	L
SVK	Slovakia	-40.40369	-204.0995	-353.5257	-444.3017	-382.7082	-444.3017	L
ZAF	South Africa	-713.1142	-277.9243	-489.2998	-714.8869	-563.1096	-714.8869	L
TJK	Tajikistan	-69.97804	-133.1642	-197.9593	-212.6947	-197.3153	-212.6947	L
TZA	Tanzania	-0.7878212	-70.468	-294.4116	-306.5018	-300.2692	-306.5018	L
TGO	Togo	-241.3733	-267.9437	-280.5283	-312.2453	-298.6332	-312.2453	L
UGA	Uganda	-260.0813	-184.8116	-221.1829	-275.4897	-267.0315	-275.4897	L
VEN	Venezuela	-360.9993	-213.7441	-378.6897	-404.4584	-381.59	-404.4584	L
ZWE	Zimbabwe	-240.4124	-138.4916	-271.1943	-282.4253	-279.3634	-282.4253	L
ALB	Albania	-180.2771	-414.5921	-403.9503	-340.6403	-449.2842	-449.2842	LL
AND	Andorra	-48.54891	-205.7091	-372.12	-333.0738	-378.6237	-378.6237	LL
AUT	Austria	245.5047	-205.2538	-517.5523	-420.187	-534.191	-534.191	LL
BHR	Bahrain	-536.9529	-420.3046	-672.5993	-660.6068	-680.0634	-680.0634	LL
BGD	Bangladesh	-418.8996	-325.7193	-626.1149	-579.3237	-696.6032	-696.6032	LL
BMU	Bermuda	-75.12337	-274.5523	-312.1753	-308.354	-313.7703	-313.7703	LL
BIH	Bosnia and Herzegovina	-121.5209	-308.9959	-485.7773	-375.8362	-509.2348	-509.2348	LL
BFA	Burkina Faso	-90.7018	-339.3211	-376.577	-331.3556	-426.0207	-426.0207	LL
CPV	Cape Verde	-205.46	-322.098	-351.4381	-329.7493	-352.0379	-352.0379	LL
CAF	Central African Republic	-492.5666	-213.6687	-520.2174	-537.1035	-552.0606	-552.0606	LL
TCD	Chad	-138.017	-215.6217	-425.884	-429.5412	-449.8989	-449.8989	LL
CHN	China	409.8893	-211.8449	-801.3443	-842.9381	-854.0821	-854.0821	LL
COG	Congo	-251.8946	-398.8223	-390.7207	-372.2798	-399.5034	-399.5034	LL
CUB	Cuba	-84.31355	-228.5059	-472.0589	-387.2562	-487.1679	-487.1679	LL
CYP	Cyprus	-43.82064	-260.1209	-489.6963	-410.2633	-527.0066	-527.0066	LL
CZE	Czech Republic	211.1751	-281.4305	-438.3096	-361.793	-472.3774	-472.3774	LL
DNK	Denmark	212.0067	-276.6672	-602.8864	-515.6257	-610.8224	-610.8224	LL
DOM	Dominican Republic	129.3501	-542.6278	-593.0407	-494.751	-646.8393	-646.8393	LL
ECU	Ecuador	161.8695	-203.0704	-311.348	-306.7964	-314.4104	-314.4104	LL
EST	Estonia	220.672	-246.7971	-504.6721	-424.5989	-527.6343	-527.6343	LL
GEO	Georgia	-134.246	-262.075	-547.201	-499.7239	-571.5538	-571.5538	LL
GHA	Ghana	110.745	-335.9963	-396.8478	-381.6732	-398.8628	-398.8628	LL
GIB	Gibraltar	-79.91624	-180.4305	-256.819	-255.7615	-281.8402	-281.8402	LL
GRC	Greece	-65.8449	-284.4489	-548.4726	-459.9016	-584.0823	-584.0823	LL
GUM	Guam	-83.86717	-207.4634	-266.7225	-269.0415	-297.0752	-297.0752	LL
GGY	Guernsey	-5.304221	-172.6126	-415.9911	-425.0924	-432.2642	-432.2642	LL
GUY	Guyana	-161.4976	-334.9942	-372.5732	-366.4181	-379.8538	-379.8538	LL
HTI	Haiti	-366.388	-174.0277	-489.0297	-507.2827	-512.5395	-512.5395	LL
HUN	Hungary	191.8024	-239.8258	-621.2835	-475.6198	-638.5135	-638.5135	LL
IND	India	60.53107	-345.8236	-1076.049	-1025.569	-1217.242	-1217.242	LL
IDN	Indonesia	116.4559	-629.9846	-566.1467	-483.9269	-630.076	-630.076	LL
IRN	Iran	172.1402	-449.9572	-418.7691	-408.6297	-465.8453	-465.8453	LL
IRL	Ireland	209.4387	-165.0268	-559.2162	-586.6975	-625.698	-625.698	LL
IMN	Isle of Man	-13.90298	-209.3267	-398.8593	-400.2791	-408.1989	-408.1989	LL
JAM	Jamaica	-71.39612	-152.2579	-394.2924	-382.9004	-404.4485	-404.4485	LL
JEY	Jersey	-37.8474	-264.8204	-399.0455	-378.7026	-408.5039	-408.5039	LL
KAZ	Kazakhstan	-306.3074	-471.5966	-479.7348	-446.8391	-486.9395	-486.9395	LL
OWID_KOS	Kosovo	-107.5783	-243.9919	-339.6378	-306.9429	-349.6144	-349.6144	LL
LVA	Latvia	-87.24654	-346.6816	-439.3656	-406.3895	-453.592	-453.592	LL
LBR	Liberia	-195.854	-331.8112	-345.9563	-291.569	-363.7065	-363.7065	LL
LTU	Lithuania	209.201	-197.1854	-381.921	-317.9006	-393.7108	-393.7108	LL

LUX	Luxembourg	232.1051	-212.3696	-510.8381	-374.8697	-536.564	-536.564	LL
MKD	Macedonia	124.5843	-300.5874	-287.241	-265.1456	-303.7303	-303.7303	LL
MLI	Mali	-219.4592	-400.0941	-362.9061	-308.5409	-406.9345	-406.9345	LL
MLT	Malta	-101.5559	-319.1074	-338.9974	-291.6384	-362.5572	-362.5572	LL
MEX	Mexico	87.73245	-377.0196	-840.3216	-672.1857	-852.9599	-852.9599	LL
MDA	Moldova	129.9677	-482.7673	-463.9427	-405.7322	-516.3397	-516.3397	LL
MAR	Morocco	166.2563	-252.4766	-580.4489	-550.9611	-591.5384	-591.5384	LL
MMR	Myanmar	-91.58642	-227.3966	-256.931	-244.4117	-268.6348	-268.6348	LL
NLD	Netherlands	216.2215	-230.5749	-696.7019	-553.8551	-721.2155	-721.2155	LL
NER	Niger	-46.6877	-220.3004	-253.8218	-238.7944	-267.3848	-267.3848	LL
NOR	Norway	239.7677	-285.6923	-599.3417	-496.5518	-652.9174	-652.9174	LL
PER	Peru	100.6404	-475.6739	-626.6595	-566.5708	-629.8398	-629.8398	LL
POL	Poland	149.0126	-434.1856	-514.8712	-476.8072	-557.1157	-557.1157	LL
PRT	Portugal	191.5806	-279.8206	-454.4319	-391.1689	-477.3903	-477.3903	LL
QAT	Qatar	100.4169	-433.8739	-732.6619	-702.281	-766.49	-766.49	LL
STP	Sao Tome and Principe	-89.14566	-129.8387	-140.3291	-137.3855	-140.3943	-140.3943	LL
SAU	Saudi Arabia	106.6419	-484.318	-650.6945	-610.679	-656.5145	-656.5145	LL
SEN	Senegal	-275.2635	-397.5647	-496.4703	-514.174	-531.8181	-531.8181	LL
SRB	Serbia	189.3387	-191.3527	-558.3205	-464.2723	-573.9561	-573.9561	LL
SSD	South Sudan	-209.9274	-204.6344	-250.9443	-251.4258	-252.0148	-252.0148	LL
LKA	Sri Lanka	128.8065	-449.3042	-528.0057	-511.0591	-528.0899	-528.0899	LL
SDN	Sudan	91.9268	-321.7591	-560.5731	-551.1181	-580.8621	-580.8621	LL
CHE	Switzerland	248.5261	-211.5366	-822.3088	-569.1514	-863.091	-863.091	LL
TWN	Taiwan	-29.62892	-137.7052	-648.1754	-627.018	-652.3505	-652.3505	LL
TUN	Tunisia	-31.88137	-225.999	-554.8591	-460.5878	-555.6231	-555.6231	LL
TUR	Turkey	180.8283	-232.4939	-508.1436	-406.3355	-532.9472	-532.9472	LL
URY	Uruguay	-129.8379	-419.8751	-400.9915	-370.1214	-517.4208	-517.4208	LL
UZB	Uzbekistan	-186.3442	-322.1371	-298.8413	-257.6641	-328.785	-328.785	LL
ZMB	Zambia	-130.4609	-176.5468	-302.1519	-334.6131	-340.0396	-340.0396	LL
CYM	Cayman Islands	-221.3734	-259.0723	-249.8907	-242.2448	-248.4093	-259.0723	Q
CRI	Costa Rica	-191.1178	-301.1858	-261.0247	-232.6146	-295.076	-301.1858	Q
CIV	Cote d'Ivoire	-292.9623	-413.3115	-377.5052	-339.006	-407.4024	-413.3115	Q
JOR	Jordan	-188.6798	-292.6486	-257.1936	-235.6517	-281.7566	-292.6486	Q
KGZ	Kyrgyzstan	-255.8855	-404.4822	-354.5095	-320.6407	-385.5423	-404.4822	Q
LBN	Lebanon	175.1033	-346.7072	-304.0947	-272.5269	-344.154	-346.7072	Q
PAN	Panama	-281.5108	-430.3588	-381.2639	-342.1064	-423.7495	-430.3588	Q
PHL	Philippines	-423.8084	-573.5642	-539.9027	-511.7262	-557.7275	-573.5642	Q
RWA	Rwanda	-219.716	-371.5937	-339.9174	-317.9441	-367.7955	-371.5937	Q