

double-gompertz-frontend

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1 Verifica di funzioni per interpolazione dati cumulativi dei contagi di COVID-19

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1.1 Sunto

La curva dei contagi totali in un'epidemia segue una forma approssimativamente sigmoide (ref).

Si valuteranno quattro diverse funzioni per l'interpolazione dei dati dei contagi totali di COVID-19 nel mondo.

Funzione Logistica Semplice

$$f(t) = \frac{a}{1 + e^{k(b-t)}} + \varepsilon$$

Funzione di Gompertz Semplice

$$g(t) = ae^{-e^{k(b-t)}} + \varepsilon$$

Funzione Logistica Doppia

$$F(t) = \frac{a_1}{1 + e^{k_1(b_1-t)}} + \frac{a_2 - a_1}{1 + e^{k_2(b_2-t)}} + \varepsilon$$

Funzione di Gompertz Doppia

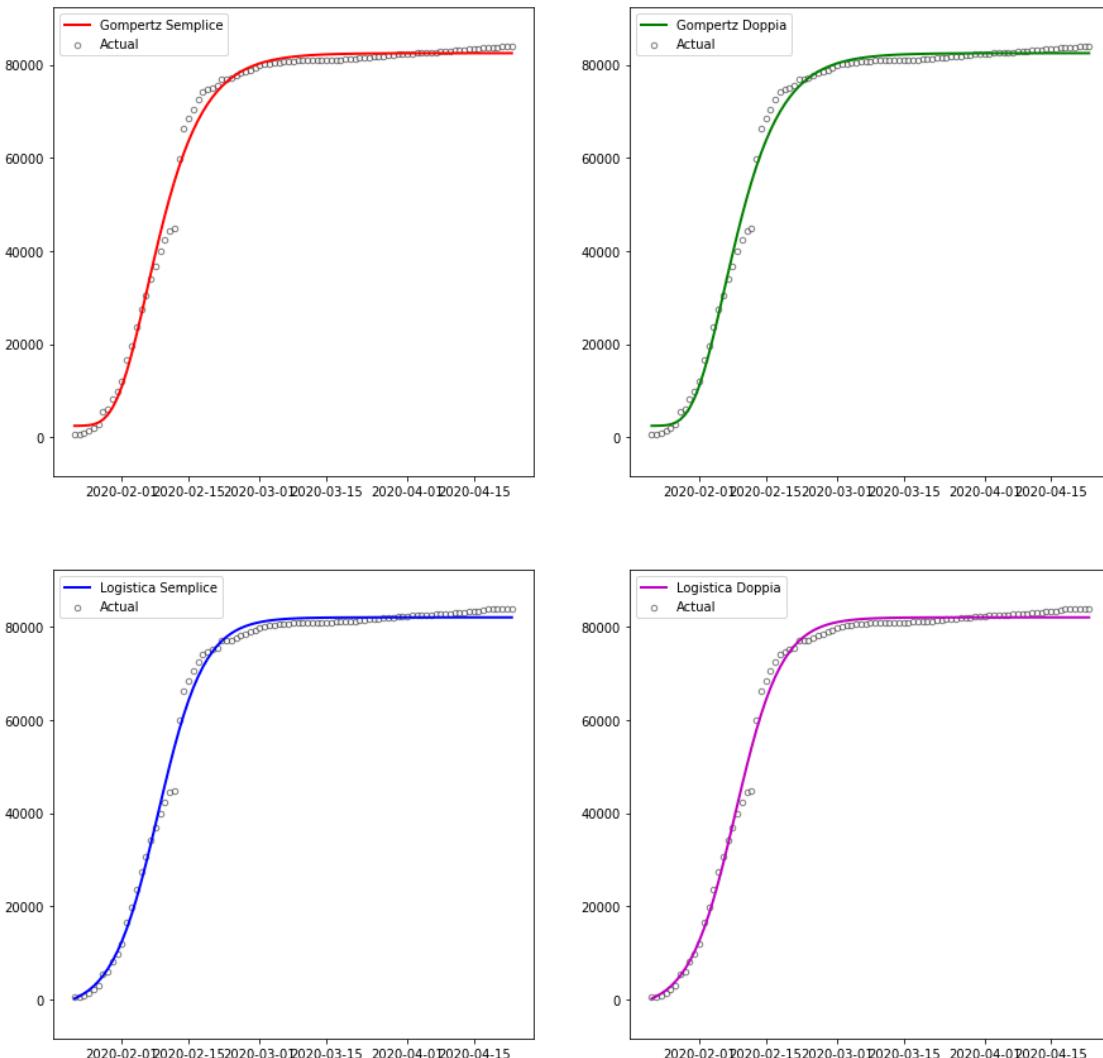
$$G(t) = a_1 e^{-e^{k_1(b_1-t)}} + (a_2 - a_1) e^{-e^{k_2(b_2-t)}} + \varepsilon$$

1.2 Risultati

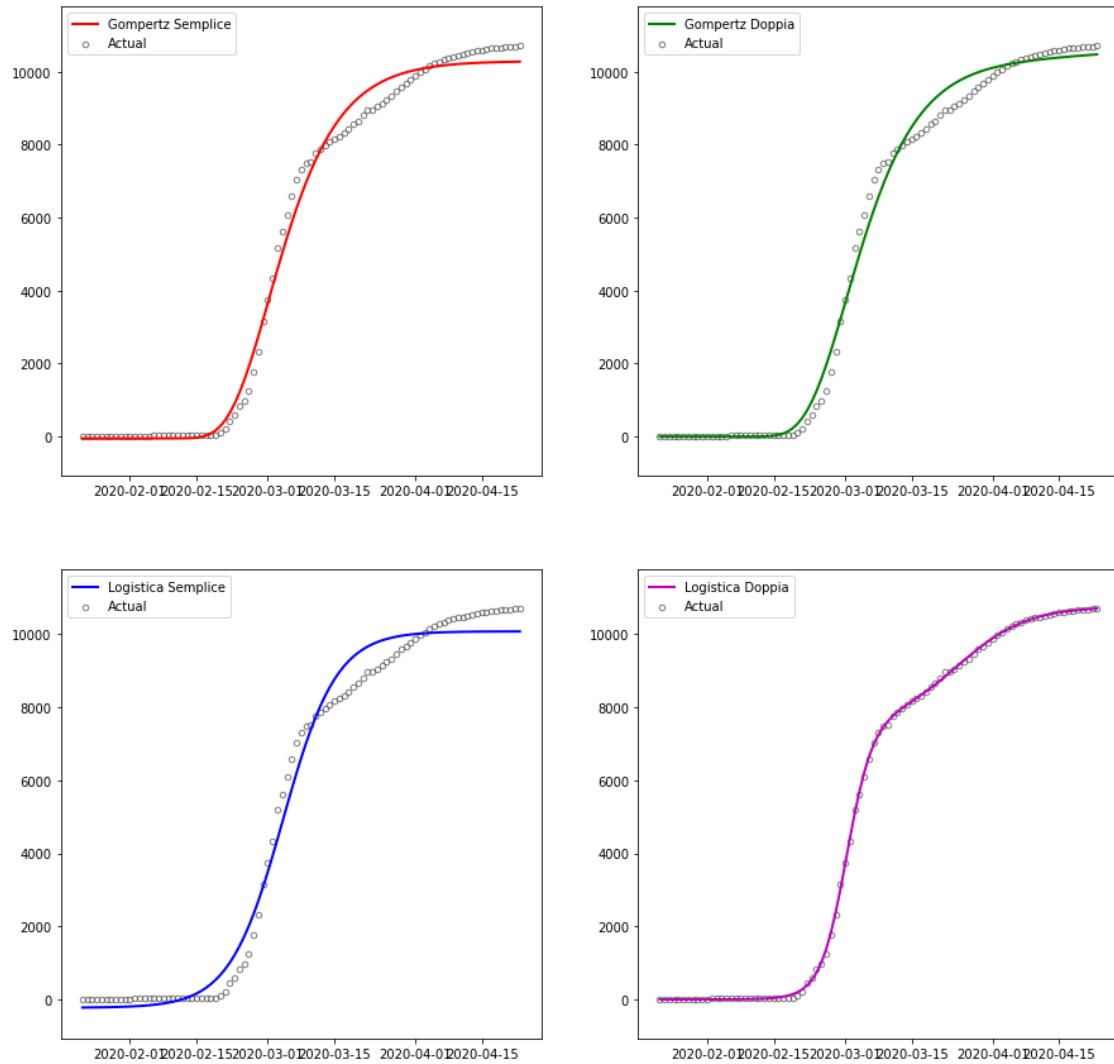
Function	Nations	Days	Samples	Slope	Intercept	Rho	P-value	Std Err
logit	166	93	15438	0.9890021758958953	25.1321050727877464	0.995207037877154	4.1089728079768315e-46	0.00825741926962617
gomp	166	93	15438	0.992591008458169	5.0917355314875055	0.995789154321084	4.81089861510739e-47	0.007563280919135602
doblogit	163	93	15159	0.99669321049600895	2.737227523420471	0.998206680795343	5.26899137396443e-67	0.004996039507541023
dobgomp	163	93	15159	0.9944275601931025	4.727191593910025	0.9968440504989473	1.7628172737981035e-45	0.006281375277220074

2 Esempi

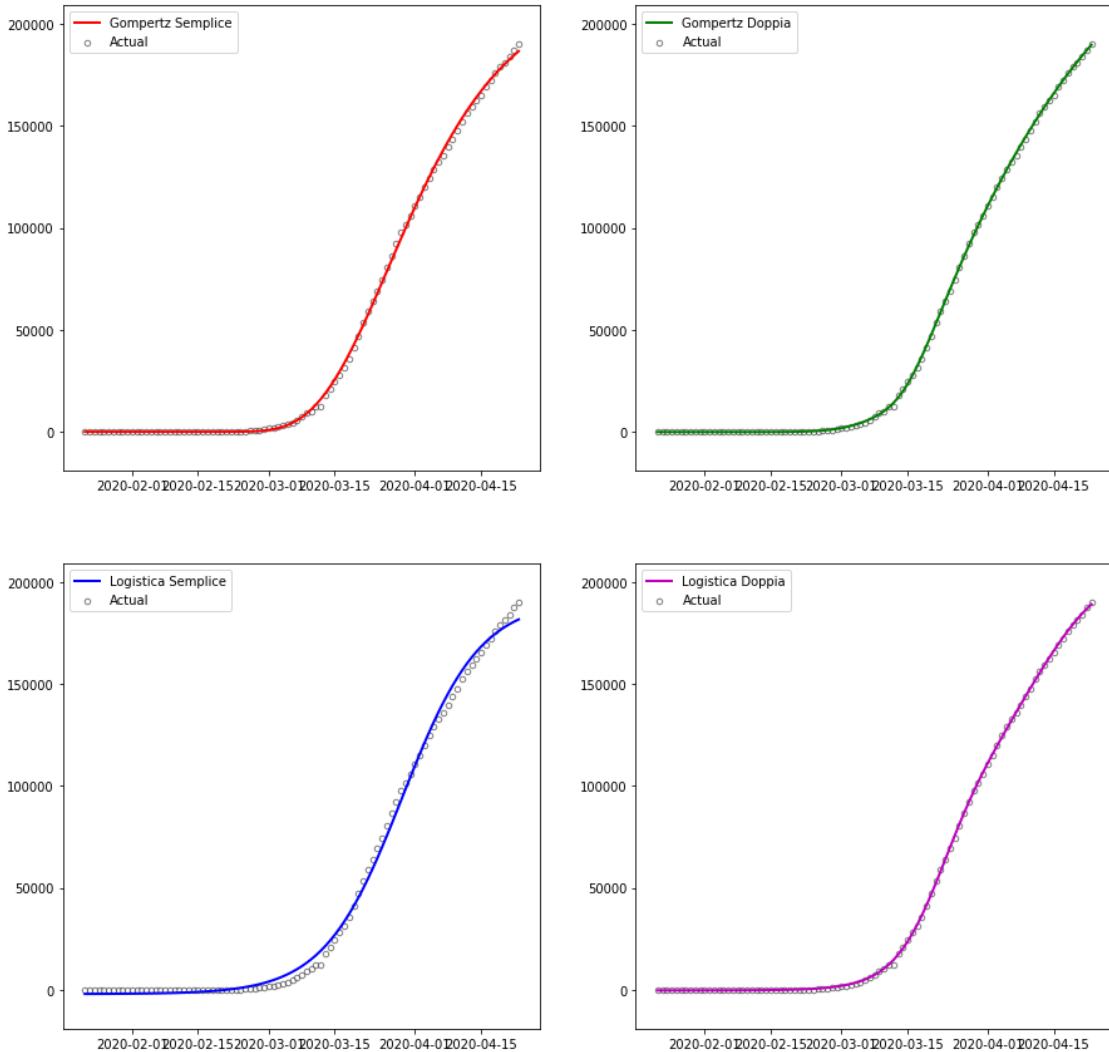
China Esempio di interpolazione



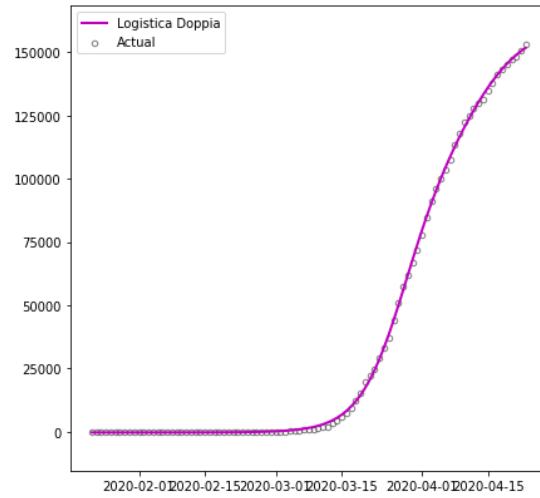
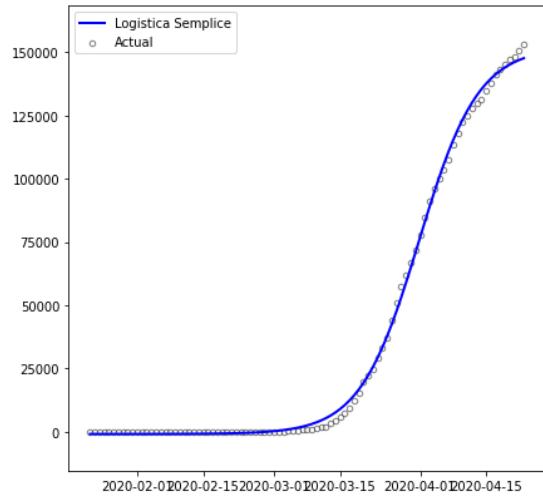
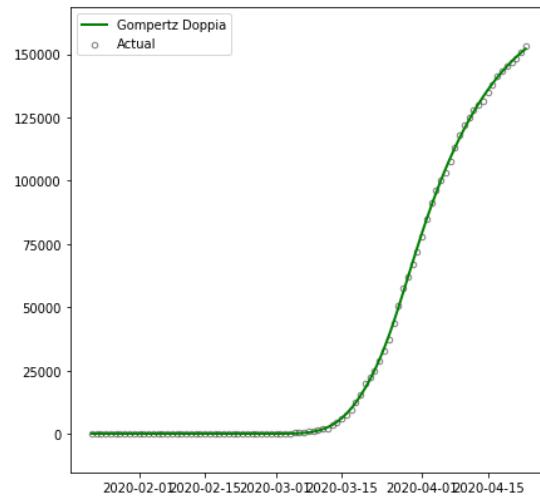
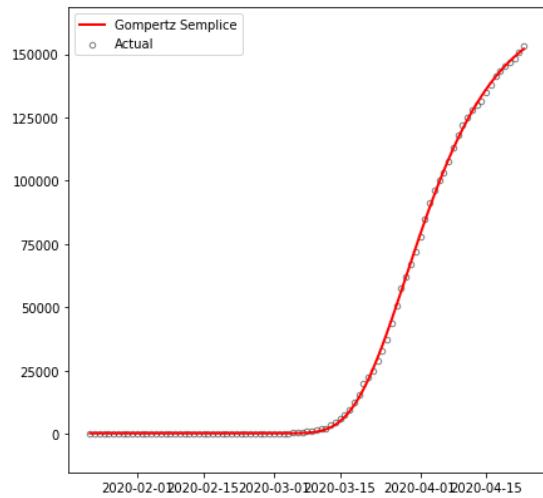
Korea, South Esempio di interpolazione



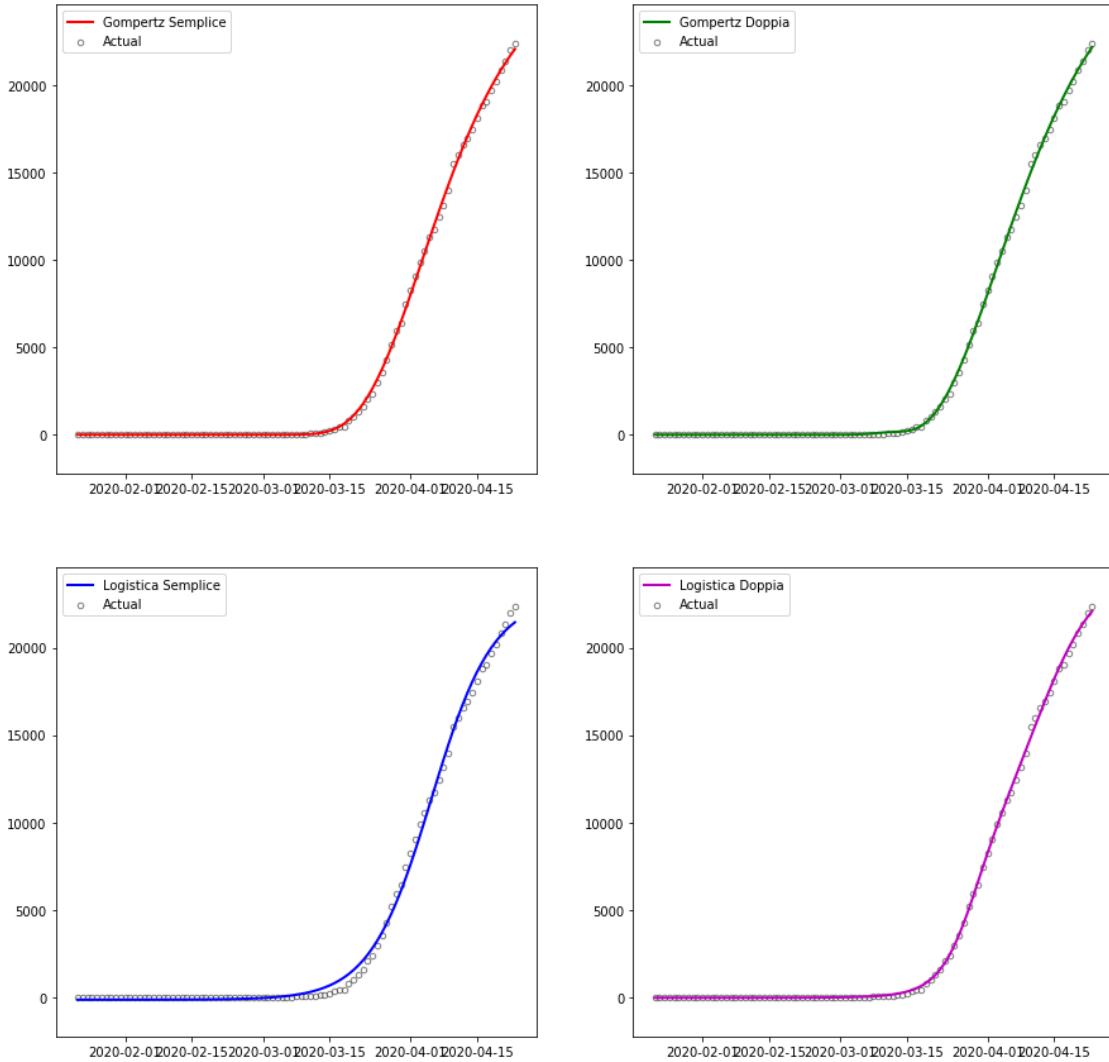
Italy Esempio di interpolazione



Germany Esempio di interpolazione



Portugal Esempio di interpolazione



3 Metodo

- È effettuata interpolazione sui dati grezzi di tutte le nazioni con `curve_fit` di `scipy` in python (metodo `trf`) su
 - logistica semplice (Logit)
 - logistica doppia (DobLog)
 - Gompertz semplice (Gomp)
 - Gompertz doppia (DobGomp)

- Verranno rigettate le nazioni con interpolazione fallita su almeno una delle funzioni per errori del modulo `curve_fit`
- Viene valutata la bontà dell'interpolazione sui dati tramite funzione `linregress` di `scipy`

I dati sono presi dall'archivio della Johns Hopkins University (ref), raggruppandoli per nazione (ref).

4 Interpolazione su Gompertz Semplice

4.1 Grafici



Interpolazione fallita su Eswatini
Interpolazione fallita su Jamaica
Interpolazione fallita su Nepal
Interpolazione fallita su Nigeria
Interpolazione fallita su Saudi Arabia
Interpolazione fallita su Singapore

4.2 Tabelle

4.2.1 Gompertz Semplice - Casi minimi

country	slope ^a	intercept ^a	t-value	p-value	std. err.
Afghanistan	0.9993605912773487	0.2485239324398017	0.9995159700925434	0.9995159700925434	0.00925095151915126
Albania	0.9983617311731731	0.1417130923095059	0.9990703935195856	4.100315674120676e-136	0.00450816293079899
Algeria	0.9983626615972936	0.43158246888897	0.9991649357385539	3.535485742740919e-128	0.0042797136409323946
Andorra	0.9988170595354982	-0.1499214941638911	0.9996836624396137	2.3548292669911704e-147	0.00263689770132095
Angola	0.99149471655686586	0.021033896071620092	0.99973458041361646	1.562473674812007e-88	0.01652068771042053
Antigua and Barbuda	0.999181872939	-0.09400000	0.9995159700925434	0.9995159700925434	0.00925095151915126
Argentina	0.998248743056564	1.24774049153959514	0.9996294234502332	2.286213985330536e-139	0.00423689770132095
Armenia	0.996814635860603	0.9777311042546616	0.998410114475162	1.8416515671093664e-115	0.005894289490373174
Australia	0.999408443207365	0.9076507858778768	0.9996776192400103	5.569774274480879e-147	0.0026608935937571716
Austria	0.9995074657310821	2.28620468617828	0.999730525757787	2.28620468617828	0.00228130593264235
Azerbaijan	0.998763652791143	0.391514762305102	0.9994213031917171	0.67182026143079996e-133	0.0037998489770132095
Bahrain	0.999118464925768	0.00000000	0.9995159700925434	0.9995159700925434	0.00925095151915126
Barbados	0.998014892389891	0.037781080321426685	0.999294234502332	4.511105193216959e-114	0.006118530702028517
Belarus	0.9960389377303531	3.279716146858391	0.999051302575866917	1.931122056320315e-109	0.0020578276130296003
Belgium	0.99962303226263	2.976715115286313	0.998108146858391	0.986666432062608	0.00423689770132095
Belize	0.9982654824537	0.4741561352163	0.99873981793209	0.986666432062608	0.01612782614306552
Benin	0.9975373495741072	-0.0592344378413478	0.999269013048617	1.0639986726136432e-129	0.004119813015711731
Bolivia	0.9988854865279385	0.020592344378413478	0.999269013048617	0.632065693018579e-156	0.002121298620567938
Bosnia and Herzegovina	0.996533933210926	0.0401099666819956	0.9997950148615	0.002121298620567938	0.002121298620567938
Botswana	0.97833405252927	0.0776142905118674	0.9988226177832574	5.1477042989835195e-77	0.01546379747846192
Bulgaria	0.9995204571722558	1.118510274594375	0.997986525872191	2.5323816364351208e-95	0.009791239133163867
Burkina Faso	0.9988411886751671	0.10425855076914595	0.999438175434062	5.242482455376336e-136	0.0031134736705308207
Burundi	0.8855551080681971	0.13290374546919037	0.941246923400241	6.511531570526538e-45	0.03302786427517165
Cambodia	0.99762135972881863	2.976715115286313	0.998108146858391	1.931122056320315e-109	0.0020578276130296003
Cameroon	0.998000000000000	2.8161031992307	0.9994043310102	0.986666432062608	0.01612782614306552
Canada	0.9909073559031645	6.3360656914453295	0.999547030796764	2.832827482317778e-140	0.003154559456596003
Central African Republic	0.9734447144592948	0.0756682867557275	0.9984368133137272	4.3824895549106073e-73	0.017037448635125658
Chad	0.982444635844754	0.04702610763561555	0.999396576192327	5.262036068631545e-80	0.0147443748792125
Chile	0.9997503093489709	0.3501686166730827	0.999685387680709	5.1477042989835195e-77	0.01546379747846192
China	0.999999999999999	3.00000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
Colombia	0.9985193521572493	1.233034477097474	0.9995588815095095	0.9995588815095095	0.009791239133163867
Congo (Brazzaville)	0.984150355263377	0.3333219088134707	0.99513576810797984	1.7352735581256901e-82	0.015037650247762455
Congo (Kinshasa)	0.99775527940754268	0.0287893718288483	0.9995527694414488	2.56257355052123507e-117	0.005632107567167294
Costa Rica	0.99898376854569597	-0.1195297223267175	0.9986668432062608	1.521655363351269e-147	0.00262432919019676124
Cote d'Ivoire	0.999000000000000	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
Ecuador	0.99935012777434435	12.152247437629443	0.99647849912369264	4.2125825181465665e-101	0.00818460394449905
Egypt	0.999000000000000	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
El Salvador	0.99760552842068193	0.013903628892244326	0.9997926843909278	5.08837451451605883e-109	0.0069706152748657
Eritrea	0.99918136770819308	-0.06286151437163	0.99997929886449198	4.212515581163107e-156	0.00210091886610143
Ethiopia	0.99882501859163208	0.0528670444869086	0.9990392401278577	2.070645251953225e-125	0.005487239902735453
Fiji	0.9834031437685527	0.025668838323733355	0.9996823560738095	5.2613289981466942e-164	0.00716730783880997
Diamonds	0.999999999999999	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
Djibouti	0.99203159063169653	0.5775637784524873	0.9985154725872191	1.03056167733851e-110	0.006646113705397745
Dominica	0.9988411886751671	0.10425855076914595	0.999438175434062	5.242482455376336e-136	0.0031134736705308207
Dominican Republic	0.99876820673373	0.1195297223267175	0.99647849912369264	1.931122056320315e-109	0.0020578276130296003
Ecuador	0.9993501277743443	12.152247437629443	0.99647849912369264	4.2125825181465665e-101	0.00818460394449905
Egypt	0.999000000000000	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
El Salvador	0.99760552842068193	0.013903628892244326	0.9997926843909278	5.08837451451605883e-109	0.0069706152748657
Eritrea	0.99918136770819308	-0.06286151437163	0.99997929886449198	4.212515581163107e-156	0.00210091886610143
Ethiopia	0.99882501859163208	0.0528670444869086	0.9990392401278577	2.070645251953225e-125	0.005487239902735453
Fiji	0.9834031437685527	0.025668838323733355	0.9996823560738095	5.2613289981466942e-164	0.00716730783880997
Finland	0.999999999999999	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
France	0.99515204571722558	1.118510274594375	0.997986525872191	1.4951547402772771e-131	0.009295292595541278
Gabon	0.9984150355263377	0.3333219088134707	0.99513576810797984	1.7352735581256901e-82	0.015037650247762455
Greece	0.99775527940754268	0.0287893718288483	0.9995527694414488	2.56257355052123507e-117	0.005632107567167294
Guatemala	0.99916212979921	-0.1195297223267175	0.9986668432062608	1.52132026535205985e-147	0.00262432919019676124
Honduras	0.999000000000000	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
Hungary	0.9990551352511421	0.4741561352051559	0.9990406361505466	1.4351545167109353e-126	0.00242430088982585
Iceland	0.998513429585769078	1.5322031686361859	0.99973052576536735	9.632789045312752e-154	0.0020287339164308756
India	0.999511887619876359	1.361317055207368	0.99979544029987614	2.344691519557125e-152	0.002325716867125553
Indonesia	0.999295320170951	0.84291701582278	0.9996378162618505	1.1156160568475923e-144	0.0026052334050748613
Iran	0.9997816278240726	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
Ireland	0.999000000000000	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
Israel	0.99912162979921	0.664687178152474	0.9995060019500993	7.675517049414499e-141	0.0030164752943042
Italy	0.99963361596538406	16.677240374767332	0.9981522737529341	5.577022652211652e-118	0.0020146136272039695
Japan	0.999321262505105838	13.592554804682677	0.9996112232310608	1.52132026535205985e-117	0.00262432919019676124
Jordan	0.999021591653675	-0.121479517004759	0.999724505000000	0.999999999999999	0.00971730783880997
Kazakhstan	0.999408818881269	0.0488163000000000	0.9997052203168356	0.999999999999999	0.00971730783880997
Kenya	0.9990285357592405	1.272722735576376735	0.99759750556165604	1.244717461573536e-124	0.002441173775244936
Liechtenstein	0.9947373201130998	0.1305805782397446	0.997688887883792	5.0883745132125e-130	0.002441173775244936
Lithuania	0.9979446886778245	0.6337708099779794	0.99978800404644093	4.46769584734635198e-108	0.0040092872603450805
Luxembourg	0.999630628691082938	2.6337708099778245	0.999788008830805	1.3501311483512634e-123	0.0028871482498208e-83
Macao	0.9994934444444444	0.099999999999999	0.999999999999999	0.999999999999999	0.00971730783880997
Malawi	0.952562162975026	1.151501171397462	0.9750461391605116968	3.664087233861394e-85	0.02512358521561696
Malaysia	0.999615970227587559	0.5954136227526738	0.998812686511595861	5.09115916556721158	0.00202534240831945
Maldives	0.98023244771740022	1.08615293244426303	0.943399667265610443	1.230421657529054e-45	0.0280723449476046018
Mali	0.9962244771740022	0.027237617225722	0.999612232310608	1.0255232532462682420	0.01612782614306552
Mauritania	0.999000000000000	0.000000000000000	0.999999999999999	0.999999999999999	0.00971730783880997
New Zealand	0.99920807088772272	2.455920222224566	0.9997059800573353	1.244681373998620875	0.00688714727797908
Nicaragua	0.9913622615169849	2.3252747446350555	0.99905500077495794	9.8582733999782087e-125	0.004689190467363
Pakistan	0.999678823478854473	0.7434644062472979	0.9998690081041409	2.016616460737787e-119	0.00533807229779796
Palestine	0.999678823478854473	0.7434644062472979	0.9998690081041409	2.016616460737787e-119	0.00533807229779796
Poland	0.999678823478854473	0.7434644062472979	0.9998690081041409	2.016616460737787e-119	0.00533807229779796
Portugal	0.99960630261421184	1.68802869174955995	0.99979409718117857	4.076611358998485e-156	0.002114727729783880997
Romania	0.999999999999999	0.000000000			

4.2.2 Gompertz Semplice - Casi minimi 100

country	slope	intercept	r value	p value	std err
Afghanistan	0.998835515277467	0.248019324350417	0.99997032300324543	5.850973427824466-139	0.003250501519151526
Albania	0.998676676517231	0.0431704688290598	0.9999729352915855	4.10931576072921508-126	0.004799182992157698
Algeria	0.998266165972936	0.7431505426888987	0.9991649357385539	4.553485747240919e-128	0.004797136402923294
Andorra	0.9998170595354982	-0.1499214941638911	0.9998636624396137	2.3548292669911704-147	0.00263689770132095
Argentina	0.9982487491363684	1.2477449150395614	0.9991690470756042	2.8246183988400155e-128	0.004268665033516664
Armenia	0.996814635860603	0.9777311402546616	0.998410114475162	1.8416156791063664e-115	0.0058994289490373174
Australia	0.9994098443207365	0.907650788778768	0.999976719240101	5.569771427480879e-147	0.0026608935939757176
Austria	0.998594637108241	0.3999763082575767	0.999976719240101	4.599976719240101e-153	0.0026608935939757176
Azerbaijan	0.999166677087763	0.391514500202676	0.999972130311717	6.0462631324408530e-133	0.003799124605349962
Bahrain	0.9991194846925768	3.5526263643857397	0.9955888315050505	2.5273816364531708e-95	0.00979173131315366
Belarus	0.9960389377303531	3.279716146858391	0.9980513238968617	1.917832793475144e-111	0.006527936102889003
Belgium	0.9996234828898075	2.976702771151663913	0.9998109624866587	1.5821126683299515e-157	0.00203782239139136793
Bolivia	0.998854865279385	-0.0592344478413478	0.99992269013048617	1.0603998672613643e-129	0.004119831015711731
Bosnia and Herzegovina	0.999653932103926	0.0492344478413478	0.99992269013048617	6.302616583018579e-156	0.0021221298020567938
Brunei	0.996539321039218	0.3899763082575767	0.999973113108567	1.207055451772388e-124	0.0026608935939757176
Bulgaria	0.999264517107153	1.1185109245945373	0.999973113108567	0.00646173023977175	0.0026608935939757176
Burkina Faso	0.99884118867517617	0.10425855076914539	0.99994381775434062	5.242482455367336e-136	0.0035113437605308207
Cambodia	0.9976213578281862	1.0665163976472428	0.99804303380979062	1.0209163984570982e-115	0.005866442779341659
Cameroon	0.9990873559033645	3.3360676934453295	0.9995473030796764	1.5802462792950992e-90	0.011041246934242525
Canada	0.9990873559033645	0.3360676934453295	0.9995473030796764	2.838267482317778e-140	0.003152455945659603
Chile	0.9993103849920920	0.3580917268605	0.999971309624866507	2.6312880674694e-164	0.007300767373056076
China	0.9985193521929493	1.273302447079474	0.9999296081609615	1.4915156477007716-131	0.0039295792965417
Colombia	0.9984150231925337	0.33332219088134707	0.9915376810797984	1.2563255881256901e-82	0.013507360524726455
Congo (Brazzaville)	0.9985729407543268	0.02978937128854884	0.9985276922441488	5.3672565051535706e-117	0.005632107569176794
Congo (Kinshasa)	0.9975529407543268	0.02978937128854884	0.9985276922441488	1.51265563355129106e-147	0.002624320910967124
Cote d'Ivoire	0.99983764558456975	-0.11195297223267175	0.99986686844302608	1.207055451772388e-110	0.00646173023977175
Croatia	0.99997811673629991	0.4650184526629869	0.9989401672699331	1.726215625559658e-116	0.00574855050331192
Cuba	0.9997811673629991	0.39997811673629991	0.99997811673629991	9.57215625559658e-116	0.00574855050331192
Cyprus	0.9975544505217998	0.58602704859086	0.9993902401728577	2.0796042521795322e-125	0.004587239920735453
Czechia	0.999614241486073	0.4927255795734734	0.9998717849742374	1.02959002517448e-154	0.02189652330570027
Diamond Princess	0.9945254538238235	2.81803564776892	0.9975132666902367	1.2465171986487436e-106	0.007366073075519692
Djibouti	0.9980213901609653	0.0575363284524873	0.9950581942785693	1.582374194286176-196	0.00950349510850523
Dominican Republic	0.9980762802733339	0.8389516726150532	0.99973168683952	7.62991196638566e-134	0.00370884285465397
Ecuador	0.99997811673629991	0.39997811673629991	0.99997811673629991	1.207055451772388e-110	0.00646173023977175
Egypt	0.99944712263998365	0.3171126399836528	0.9997211169952584	2.83440100436270738e-150	0.002441134138975232
El Salvador	0.9976052842068135	1.1362395127481335	0.9999353636862603	2.088517417759525e-142	0.002982239976430875
Ethiopia	0.998285019063208	-0.05028184515179509	0.9988707584094636	2.302885205447667e-124	0.004721047879979824
Finland	0.999042308903185	0.3788695165295395	0.9995052649660046	1.61204584085518e-138	0.00329533558991417
France	0.99519024701969793	154.6137080738546	0.99759123079646-107	2.930426100796946e-107	0.0072540929462929
Gabon	0.9997811673629991	0.4640401	0.99997811673629991	1.620926652998554e-99	0.0046811931580185
Greece	0.99765092758524	0.2687017258599493	0.999923277393944	6.05913479750606e-137	0.0036191931580185
Germany	0.9997724048562937	8.2610157258574	0.9998880594456189	2.304195095369974e-167	0.0158892488758443
Ghana	0.9986819505373859	0.34958203168763508	0.999417465202342	2.7859706643778e-92	0.010709001057680896
Greece	0.998386142120231	1.212121263998365	0.999999721169952584	2.83440100436270738e-150	0.002441134138975232
Guatemala	0.9953625932997771	0.3405398171881444	0.9982356036788428	2.0965032354057487e-113	0.006205269910531371
Guinea	0.9981176329991764	0.3405398171881444	0.9999563636862603	1.3298507249571298e-126	0.00574855050331192
Honduras	0.99997811673629991	0.397231263998365	0.99997811673629991	1.513151387303158e-128	0.0046811931580185
Hungary	0.9997953153512421	0.86721653287159109	0.9999040836150645	1.4354150184144989e-126	0.004354617275135625
Iceland	0.9985312465396768	0.70509728546859	0.9998493850482909	2.84592513121256e-130	0.004059128086620372
India	0.9991539518676539	1.3631770520075368	0.9995744902986714	2.3644491519515714-152	0.0023225168647125253
Indonesia	0.99925951820719951	0.8429109135822728	0.99998376182618508	1.1116510568475923e-144	0.02821411579521704
Iran	0.9978126864782408	0.34935938044816	0.998905662322738	7.745636021499836e-123	0.00486450157372764
Ireland	0.9986819505373859	0.2092340545047406	0.99997811673629991	1.172055451772388e-115	0.00646173023977175
Israel	0.999264517107153	0.464970815474	0.999956193005993	7.76317954149811	0.0031079471294352
Italy	0.99963150585169788	18.677240378776332	0.9998152545643389	5.5770226652113e-158	0.002014613627203082
Japan	0.9932312625015838	0.397231263998365	0.9965611223330608	1.595812603663100e-100	0.008533541993604754
Jordan	0.9992162119089447	-0.1214795787635836	0.9997245609466937195	5.889118746493346e-131	0.003992150325762092
Kazakhstan	0.998101880812629	0.46232894904662213	0.99990649682765615064	0.00468117727544056	0.00468117727544056
Kenya	0.9950356525844411	2.0727275351677635	0.99975027566125604	1.5908525156855856e-106	0.00738546718892992
Korea, South	0.99997811673629991	0.34997811673629991	0.99997811673629991	1.207055451772388e-110	0.00646173023977175
Kosovo	0.9884731308470001	1.484383091176375	0.9998993728995173876	2.388817284958678e-83	0.013202628495867698
Kuwait	0.9951169549089385	1.874031514358046	0.998316122555455	1.359212311545796e-107	0.001713292330337118
Kyrgyzstan	0.9984473130847001	0.0977650727227205	0.99888143995472635	1.096266862725862e-122	0.004393763052323357
Latvia	0.999574451735795	0.02706774842151948	0.9996154949092253	1.688497548586217e-143	0.00290650332315788
Lebanon	0.998080817420871957	0.4797856197481695	0.999144644476533	1.1096268424424856114	0.00433274424856114
Liberia	0.99997811673629991	0.347991009772631	0.9999440084841093	7.528164343557634e-98	0.0048114727805082
Lithuania	0.997948486381123	0.6233209772631	0.9999440084841093	1.9316433557634e-123	0.0048114727805082
Luxembourg	0.99966020885686392	0.1267071801089236	0.999899372808055	8.24162652259833e-155	0.00218957450391215
Madagascar	0.99706483081311811	0.1279545183448556	0.99962559910289808	1.0012945626298830e-130	0.00404089138488302
Malaysia	0.99961972287559	0.595413622257638	0.9998136868668636	9.01159265155651e-158	0.002232542081234945
Maldives	0.990300524837453	0.01338553489374597	0.999981368686636	1.038553489374597e-663	0.0034260651549696
North Macedonia	0.997983707393887	0.53037715055103109	0.999935517798265	1.99912184879201530e-127	0.00346036552762399
Norway	0.9991070350575726	1.9820273890386488	0.9995676104143895	3.5182366302789976e-141	0.003089510841348988
Oman	0.9984367847149343	0.24055545572142023	0.9991461708588594	9.713942721465284e-128	0.00432719138877986815
Pakistan	0.99917166721953671	4.30571088413621	0.99863644558487	1.691114947972544e-118	0.0054435147894105538
Paraguay	0.99848124651114	0.8273616715227258	0.999633402444674564	1.9242444244674564	0.00283631176373524
Philippines	0.9993181673629991	0.3323274748635035	0.9998057797495794	9.835333399788726e-125	0.004046811940672768
Poland	0.9996278682845343	0.7343828514372075	0.9998481444520442	1.1848223540174926e-161	0.0018358339355259393
Portugal	0.9996063702614433	1.6880286897451955	0.9998621172617859	4.06786135899146e-156	0.0021177592152949
Qatar	0.997216823094283	2.677257511004948	0.999868844723826	4.1092123775982e-118	0.005517561372047
Romania	0.9997439418734659	0.2749956322639819	0.999861742852853	1.0426666305486569e-128	0.00174291208762278
Russia	0.9995937846361363	0.3499814267281333	0.999981435539952	0.00436050325053052	0.00450512010560162
San Marino	0.9992018895240894	0.9637204995074494	0.99952719527955	6.2987462826103626e-96	0.00965012010560162
Senegal	0.9993250853447936	0.4921665395406478	0.9996358836098985	4.16839077506464-99	0.0089695132420311
Serbia	0.9970161808065				

4.2.3 Gompertz Semplice - Casi minimi 500

country	slope	intercept	r value	p value	std err
Afghanistan	0.9898405512277467	0.24842019324360417	0.9995159700325434	5.959378342782446e-139	0.002959995151913126
Angola	0.992010768115711	0.17300000000000002	0.9995159700325435	4.4720000000000004e-139	0.002959995151913126
Algeria	0.99826615972526	0.7431505262688897	0.9991643357385539	3.535485742709195e-128	0.0042701136402322346
Andorra	0.9988170595353982	-0.1499214941638911	0.9998636624396137	2.354829266991704e-147	0.00263689770132095
Argentina	0.9982487491363684	1.2477449150395614	0.9991690470756042	2.8246183988400155e-128	0.004268665033516664
Armenia	0.996814635860603	0.9777311402546616	0.998410114475162	1.8416156791063664e-115	0.0058994289490373174
Australia	0.999409843207365	0.907650785778768	0.9996716192400101	5.569771427480879e-147	0.0026608935937571716
Austria	0.9995074657310821	2.28620468617828	0.9996730525757567	4.597441244048551e-153	0.002813059303262435
Azerbaijan	0.99991119496192768	0.99991119496192768	0.99991119496192768	6.8920000000000004e-133	0.00097917913151566
Bahrain	0.9991119496192768	3.3535263643583797	0.99955889215095005	1.5723781634351708e-95	0.00097917913151566
Belarus	0.9960389377303531	3.27971614685391	0.9980513238968617	1.9178372793475144e-111	0.00652793610289800
Belgium	0.999623897732898075	2.976701151663913	0.9998109624866587	1.5821126683295951e-157	0.00203782239139167993
Bolivia	0.998854865279385	-0.05923444378413478	0.99992269013048617	1.0603998762163643e-129	0.004119831015711731
Bosnia and Herzegovina	0.99963372103926	0.040996668199596	0.99970096668199596	6.302616583014861789e-156	0.00122129802567938
Bulgaria	0.9956204571722558	1.118510924594375	0.99778652385191	1.0130556177338516e-110	0.006811370000000000
Burkina Faso	0.99991119496192768	0.99991119496192768	0.99991119496192768	9.0000000000000004e-133	0.00097917913151566
Cameroon	0.9887526135877004	3.387006179927607	0.99442740533414023	1.5802467295205992e-90	0.010124746934224525
Canada	0.9990873559033645	6.3360676934453295	0.9995547030796764	2.838267482317778e-140	0.0031524559456596003
Chile	0.9997309304892907	0.999986586789027	0.999986586789027	2.631289982466094e-164	0.0017167370583880597
China	0.99415896389926469	383.1304837431235	0.9970751735268606	1.98596453618347e-103	0.00798830236346067
Colombia	0.99851930921926493	1.2330000000000005	0.9997000000000005	1.0399999999999999e-107	0.0039295292964129812
Costa Rica	0.99991119496192768	-0.1111111111111111	0.99991119496192768	1.3999999999999999e-107	0.0039295292964129812
Cote d'Ivoire	0.9986795807733913	0.4650194226528989	0.9994901677699331	1.7582154625559658e-116	0.0057485505053731192
Croatia	0.9995071766431996	0.417257070454685	0.999700715079477319	9.6322999888992575e-154	0.002424300889982585
Cuba	0.999781111565591	-0.06828615431763	0.99997929268684998	4.212155381563107e-156	0.0021001081898610143
Cyprus	0.9975545052197998	0.049992048590086	0.9999392401227227	2.0706042521795222e-125	0.00458723920735453
Czechia	0.9996144214686073	0.4972755773473474	0.9997817498742099	1.09259002513748e-154	0.002189652330570047
Diamond Princess	0.9452545732825	0.024556470000000004	0.99991119496192768	2.0000000000000004e-105	0.000950349210315052
Egypt	0.99991119496192768	0.275553425493	0.99991119496192768	1.2785907149383876e-99	0.000950349210315052
Dominican Republic	0.99876182673339	0.8389516726150523	0.99993731686839201	7.629911966858566e-134	0.003708282544655939
Ecuador	0.9935012774434415	12.1522447362779044	0.99674899271739267	2.4215285114656656e-101	0.0081436039444909
Egypt	0.9994471913088365	0.31712736399805628	0.9997271166952584	2.834410043622073e-150	0.00244811341895234
Finland	0.99904236190304185	0.738869501765293	0.99950092469660046	1.621045480855186e-138	0.0032953355899145
France	0.9990192471969793	154.61320807385346	0.9979512372387347	2.930426100796946e-107	0.0072540929462929
Germany	0.99991119496192768	0.99991119496192768	0.99991119496192768	9.3999999999999994e-167	0.000950349210315052
Ghana	0.998631052753539	1.552203168763508	0.9947147645203242	0.010709001057680946	0.000950349210315052
Greece	0.9983641421720321	1.212129178899926	0.999684407007336	8.60055829149387e-131	0.0040050394297387588
Guinea	0.9981176359769164	1.921219178899926	0.9999056069785218	1.329813324957198e-126	0.00445292879988758
Honduras	0.9977747942994014	0.39721947249938664	0.99907574974987948	5.351531639825988e-126	0.004499557896231434
Hungary	0.9979953153512421	0.867316652791509	0.9990940861506465	1.4354108144998e-126	0.004456167275136528
Iceland	0.99931142427396708	0.738869501765293	0.9999999999999999e-167	2.84592722121256e-130	0.00918208808872276
Iraq	0.99991119496192768	1.3531772073877039	0.99991119496192768	2.2331615621513052e-132	0.00392953355899145
Indonesia	0.9992958320719951	0.842910913582728	0.9996781762618508	1.11516105684759738e-144	0.002821011579521704
Iran	0.9978126864782408	30.34959138938044816	0.9998095682632238	7.745636021499823e-123	0.004897505115737264
Ireland	0.9968525608419353	8.6464093450132403	0.998427425982689	1.125445377492794e-115	0.00597178140156905
Israel	0.999126197989217	2.664871781514274	0.9996500195005993	7.76517954981496e-141	0.0031079547209543527
Japan	0.99963505180519788	1.8381614120000000	0.99991119496192768	6.57702266251113e-158	0.003161461362728765
Kazakhstan	0.9998867789787824	0.4623269400062233	0.999906498389675	1.2467911437393643e-124	0.004611777524456
Korea, South	0.9998867789787824	32.72005104627624	0.9969420709331225	1.500419956120626e-102	0.0181666271868867
Kosovo	0.98476793484586	1.484283091176675	0.9991896831738767	2.3888714182948202e-83	0.013262828495867686
Kuwait	0.9951169549098935	1.8740315147358046	0.9973616125555451	1.3592123114597976e-107	0.00179229330387118
Kyrgyzstan	0.998473103870047	-0.097697128956293	0.9988814399474576	1.595086662728466e-122	0.00439376035323357
Latvia	0.995774451233579	0.074777177421948	0.99991119496192768	1.0000000000000004e-143	0.002656033231578865
Lebanon	0.99991119496192768	0.47970000000000004	0.99991119496192768	1.1111111111111111e-137	0.000950349210315052
Lithuania	0.99979449848911523	0.63377900597677321	0.9998440046841093	1.5301164335512634e-123	0.0048117772803508
Luxembourg	0.999660208388392	1.260711081089236	0.999783098208055	8.2416261339327656e-155	0.0021829574570391619
Malaysia	0.999615972227559	0.595413622257638	0.9998132686867147	9.051192569155615651e-158	0.0020253424082314945
Mexico	0.9974067673349678	3.35396493896776	0.99896990081914409	2.016616467047787e-119	0.00338607292279976
Moldova	0.99917897575397904	0.31319628389810318	0.9995963997269768	1.53131318760906835e-142	0.002576078159805154
Morocco	0.99991119496192768	0.9581111111111111	0.99991119496192768	1.0000000000000004e-128	0.00392953355899145
Netherlands	0.99971264273977	2.435889405030323	0.9998860525911394	1.352691562598335e-155	0.00172089541374517
New Zealand	0.9992080777772272	0.4784543928668256	0.9999714720256434	1.5201192720472307e-153	0.0025301752863360
Niger	0.999005248301623	0.013386534855754917	0.9999999999999999e-167	0.00342600615649666	0.000950349210315052
Norway	0.9997623702793887	0.5303716055103109	0.9993125571799265	1.9951218487401503e-127	0.0043605265520762399
Oman	0.99910703575726	1.9820000000000000	0.999567610413895	1.0000000000000004e-103	0.00308095108143898
Pakistan	0.99991119496192768	1.212129178899926	0.99991119496192768	1.713991721456284e-141	0.0042481134189618615
Panama	0.9991910379157866	0.877361781527738	0.999633408173173	1.942472440764576e-144	0.00382633116739352
Philippines	0.9980678416781313	2.3252477486853055	0.9999055797495794	9.858233399782078e-125	0.004648689130467363
Poland	0.99967867828845453	0.7343827851472079	0.99998465847920442	1.1848223540174926e-161	0.001383585393552593
Portugal	0.9996083703701443	1.688028697451955	0.9999764211718589	4.6586135991156466e-156	0.00211739512152949
Qatar	0.997168230649283	2.6772575517004498	0.9986098844742386	4.1092117959286e-118	0.000517756133720457
Romania	0.999743051751935	0.27100000000000004	0.999956710413895	1.0000000000000004e-103	0.00392953355899145
Russia	0.99991119496192768	0.25322772825263	0.9999645058283782	4.81605393722166148	0.002359016392374711352
San Marino	0.992018955204894	0.96572049907449	0.995721597827595	6.298674826103626e-96	0.009650142014056912
Serbia	0.9970161840806551	3.27235608712067	0.9985277726043639	5.59304293911382e-117	0.005677678374244866
Slovakia	0.997131832911433	0.6675754949465349	0.9987178842754606	1.039090627692576e-119	0.005297191837951314
Slovenia	0.998973782078093	0.56266719180929273	0.999575771153685	1.478734410520107e-141	0.0030513127151840961
South Africa	0.987220639120801	8.72650983737662	0.99359562243913	5.651232352606411e-88	0.00176962674669086
Spain	0.99991119496192768	0.7244350000000000	0.9999999999999999e-167	4.0000000000000004e-103	0.00392953355899145
Sweden	0.999391753101775	1.828337389151775	0.99961399489121	6.99546911349823e-149	0.00260932107468932
Switzerland	0.9997849386749784	1.501253691788334	0.9998855797092048	1.9072454574713305e-167	0.001585646124722722
Thailand	0.99978272070401074	-0.03723608856244666	0.999840789554324	6.51345167995545e-161	0.001768416905892
Iunisia	0.9997861952544781	2.6252380434869167	0.9999154181127306	6.21357060845699e-128	0.0004304214202005281
Turkey	0.99986769527404937	2.08890232505876666	0.9999347431357132	5.123993416353995e-17	

4.2.4 Gompertz Semplice - Casi minimi 1000

country	slope	intercept	r value	p value	std err
Afghanistan	0.3988405512277467	0.24842019324360417	0.99951597003234534	5.93038342782446e-139	0.003258995151915126
Algeria	0.9990156150174793	0.1093773828239	0.99951597003234534	3.2755270000000002	0.003258995151915126
Argentina	0.99824874913535384	1.247449150395614	0.9991690370756042	2.84261383838400155e-128	0.003258995151915126
Armenia	0.396814635860603	0.9777311402546616	0.998410114475162	1.8416156791063664e-115	0.005894289490373174
Australia	0.999408434207365	0.907650785877868	0.99967619240101	5.569771247480879e-147	0.00266089359375717176
Austria	0.9995074657310821	2.28620468617828	0.9997630525757787	4.597441244048551e-153	0.002281305930264235
Azerbaijan	0.9987663627004143	0.391514762626396	0.9993421357191717	6.8718201243079996e-133	0.0037996248978349897
Bahrain	0.9911194846925768	0.3535226364358797	0.995588315095005	2.53223816364351208e-65	0.0081213911313163867
Bangladesh	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
Belgium	0.99962324832890975	0.24767071151663913	0.99981096524866587	1.5871126682309515e-157	0.00070378229139167993
Bosnia and Herzegovina	0.9996539332103926	0.04010996668199586	0.9997950148615128	6.302616583018579e-156	0.002122129802567938
Bulgaria	0.99567204571722558	1.118510924594375	0.99786552872191	1.013055617338516e-110	0.0066461137053977475
Cameroon	0.9887526135877004	2.3878086179927607	0.9943740533414023	1.5802462792950992e-90	0.011041246934224525
Canada	0.99908726159033645	0.3336076934455295	0.9995476303780929	4.838267482317778e-140	0.0031524559456596063
Chile	0.999753093489209	0.35058691866730827	0.9998658637880629	2.63128898246694e-164	0.008716737058508597
China	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
Colombia	0.9985193521926493	1.233034477079474	0.99929608347609615	1.4915156427960871e-131	0.0039295292956344728
Cote d'Ivoire	0.9967198580733913	0.4650184326629869	0.9984901676769331	1.5782154265559658e-116	0.005748550505331192
Croatia	0.9995017686431996	0.417425700454685	0.99977105420727319	9.633217984153725e-154	0.0022424300889962585
Cuba	0.9997811199156591	-0.068286154341763	0.9997929968864998	4.212155381563107e-156	0.0021001091898610143
Czechia	0.9996144214186073	0.492725579374374	0.9997812478409742099	1.092590021317448e-154	0.0049096523308645993
Dominican Republic	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
Ecuador	0.9993501377442415	12.152244736278044	0.9967489991732967	2.4218525811465665e-101	0.008211846038449099
Egypt	0.99844719131088365	0.317172711665828	0.9997277116655284	2.83441004230946292911	0.0024481134189795234
Finland	0.999042389030185	0.7388695017652935	0.9995052496660046	1.612015458085518e-138	0.003295333588991417
France	0.9951902471969793	154.61320807385346	0.997591237138747	2.9304162100796946e-107	0.007254092946292911
Germany	0.9997724048562937	8.26010157205874	0.9998850944564189	3.2041950950396974e-167	0.00158892486568441
Greece	0.988664950537859	1.5742310873108	0.994780000000000	1.788000000000000	0.000000000000000
Hungary	0.997953153152421	0.8673165682791509	0.9990940861750645	8.60305291795761e-131	0.000409494923975388
Iceland	0.9985312652051838	13.592555480682676	0.9966112223310608	1.43541501841449598e-126	0.00345615725136528
India	0.9995139518876539	1.3631770555207368	0.9995744092986714	2.845925131221356e-130	0.004059182086620372
Indonesia	0.9992958320179951	0.8429109135822728	0.9996378162618505	1.11156068475923e-144	0.00232216867412553
Iran	0.9978126864782408	0.349583938044816	0.998050662322738	7.745636021499823e-123	0.004897005157372764
Ireland	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
Israel	0.9991261267989317	2.6648761278154274	0.9995600195005993	7.76517954981449e-141	0.00310795470295437
Italy	0.9966311058169788	18.67720378776332	0.998152546343879	5.5770266251113e-158	0.00214613627720309
Japan	0.9932126501851838	13.592555480682676	0.9966112223310608	1.5958177138046663e-100	0.008593541993604754
Kazakhstan	0.998104088112629	0.462326940062213	0.999006498769575	1.2467911437393643e-124	0.00468117277244056
Korea, South	0.9978867778978242	32.72005104627624	0.9969420709331225	1.5004019955612062e-102	0.0081666271868867104
Kuwait	0.995116816838385	1.8703310354936	0.9993300979731	1.359816433523662e-102	0.00481872323380302
Lithuania	0.9994048683113	0.333300979731	0.99940400023301093	1.359116433523662e-102	0.00481872323380302
Luxembourg	0.9996600238569392	0.1260741081089236	0.9997830982708055	8.24162613139277658e-155	0.002182915750391215
Malaysia	0.999619572287559	0.5595413622257638	0.9998132886867147	9.0511192569155651e-158	0.00202532420873114945
Mexico	0.9974067673349678	3.3535694938966776	0.9986990081914409	2.0196616467037787e-119	0.00533860292279976
Moldova	0.999178975352904	0.313966238686103	0.9995963397269768	1.5131318690639635e-142	0.00297676950001254
Morocco	0.998257894690318	0.99747858638121029	0.9995052120540899	2.5074217995861959e-128	0.00426311085493079
North Korea	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
New Zealand	0.999910703057576	0.478454293866866	0.999678705256434	1.5201197204729307e-153	0.00253017528653607
North Macedonia	0.9979583702793887	0.53037716055103109	0.9991325517792965	1.99517183847401503e-127	0.00436265520762399
Norway	0.99910703057576	1.982027390386488	0.9995676104143895	3.5182366302789976e-141	0.003089510841349898
Oman	0.9984367847114934	0.2405554572142023	0.999416170885994	9.13942721465284e-128	0.0043279138875968615
Pakistan	0.9991716621953671	4.30571088413621	0.99863764455847	1.691114997475244e-118	0.005464338798671
Panama	0.999197101915786	0.383616175227258	0.99951597003234534	0.0028369331167383524	0.000000000000000
Philippines	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
Poland	0.999678672892453	0.73438278514472075	0.9998465847204042	1.184223540174926e-161	0.001835853939552599
Portugal	0.9996068370521443	1.688028697451955	0.9997964211718589	4.607861358991146e-156	0.0021173591752949
Qatar	0.9972168230649283	2.6772575511004498	0.998609884472386	4.10921137959028e-118	0.0055175613720457
Romania	0.9997439418734659	0.2749556322639819	0.9998617405822853	1.04262666788314e-163	0.00174291208876278
Russia	0.9993660747680361	3.5334267728726263	0.9996945080283782	4.81607593872216e-148	0.00259016392574356
Serbia	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
Slovenia	0.9972131332911433	0.6671754942465349	0.9987178842754606	0.0052991913279511212	0.0052991913279511212
Slovenia	0.9989373782030893	0.56266719180329273	0.9995757711153685	1.478734405802107e-141	0.00305131275180691
South Africa	0.987720639120801	8.726590853737662	0.99359562423913	5.651232552606411e-88	0.01176962746696986
Spain	0.99942236082232	2.794433965926146	0.999710472890019	4.190061864409594e-149	0.00252163588822765
Sweden	0.9993917531975515	1.828263508151775	0.9996919909489121	6.995469114881383e-148	0.0026008310746869832
Switzerland	0.9997849386749784	1.5013615969178834	0.99955579570972040	1.09724424405813305e-167	0.000646444222113
Thailand	0.999911111111111	0.300000000000000	0.999911111111111	1.999911111111111	0.000000000000000
Turkey	0.999867693740497	0.3880027350876666	0.9999347433157132	1.5239341635539595e-178	0.001974080705461742
US	0.999865645265453	19.912735964200692	0.9999329468289418	5.24247267398034e-178	0.001213836784632039
Ukraine	0.9990297577565141	0.8613075360971152	0.9995112230883203	9.28977304798174e-139	0.00327557326647676087
United Arab Emirates	0.9992163944999053	0.803303303063348	0.999610135748577	3.17085461803148e-143	0.0029257681089602263
United Kingdom	0.9998330160795298	3.736281763282375	0.9999162704113339	1.2831929061781083e-173	0.0013564023329256357
Uzbekistan	0.9954323120640299	1.319013391316844	0.9977894891890771	5.910093347989942e-109	0.006948158413528075

4.2.5 Gompertz Semplice - Casi minimi 2000

country	slope	intercept	r value	p value	std err
Algeria	0.9983626615972936	0.7431858426888887	0.9991649357385539	3.535485742740919e-128	0.00042791364092329496
Argentina	0.9982487941363684	1.2477449103509561	0.9991690470756042	2.8246183988400155e-128	0.00428665033516664
Australia	0.9994094884203765	0.9076507858776876	0.9996716792400100	5.56977142740897e-147	0.002660893593757176
Austria	0.9995074657310821	2.2862046681761287	0.999760325757787	4.597444214404851e-153	0.00281305930264235
Bahrain	0.9911194864927568	3.5352263645385797	0.9995888315059005	3.258321681363451208e-163	0.009791239131363867
Belarus	0.9992074482360529	3.2104750000000002	0.9998100000000001	1.8292116562000001e-111	0.00032523000000000001
Belgium	0.9996234832880705	2.9762701151639313	0.99980624865687	1.582117668321365157	0.000307823291367993
Canada	0.99980733550303645	6.33606239433453295	0.9995470303976764	2.838236782311778e-140	0.00315254528545536903
Chile	0.999753093039429209	0.350368166730827	0.999865863786029	2.6173889982466094e-164	0.001716737052885097
China	0.9941589689246499	383.1304374321325	0.9997075175368606	1.9858645636118374e-103	0.007988032363460676
Colombia	0.99851935219246493	1.230334470079474	0.9992990641696915	1.49815156427007271e-131	0.003929529596451287
Czechia	0.9996144214186073	0.4927255795737437	0.9997817498742092	0.09259005213744861e-154	0.0021896623305700247
Dominican Republic	0.9997872820000000	0.8389516730000000	0.9993117000000000	0.0000000000000000	0.0000000000000000
Ecuador	0.993503077744151	1.2200000000000000	0.9998489177000000	2.9120000000000000	0.0000000000000000
Egypt	0.99944171931083865	0.311263998906528	0.9997771656581584	2.83441004262073e-150	0.002448311401897524
Finland	0.9990243809304185	0.73886595017652935	0.9995052649660046	1.621024548805186e-138	0.003295335335899141
France	0.9951902471969793	154.16120807385346	0.9975912137238747	2.3930246100796946e-107	0.00725409249629219
Germany	0.99972724048562937	0.880101572508574	0.999850945464189	2.304195050396947e-167	0.00158892486788441
Greece	0.9983864142120231	1.2121912718998996	0.999268400700336	6.60058291493875e-131	0.00400549429378588
Hungary	0.998313513512421	0.8673166582791509	0.9990940615360464	1.435418264144386e-126	0.0044561767735628
India	0.999392320178951	1.3894200000000000	0.9998260000000000	1.6000000000000000	0.0000000000000000
Indonesia	0.9993952320178951	0.8429091135282728	0.9996378162618508	1.11165105684952e-144	0.002820141157852710
Iran	0.9781268648782408	50.343932938044816	0.9989056662322738	7.745632610129883e-123	0.004839750513573726
Ireland	0.9968525608419353	8.640693450132403	0.9984272472582689	1.25445357921494e-115	0.0058671728140156905
Israel	0.999126197929172	2.664817812785472	0.999560019505993	1.76517954984149e-141	0.0031079547202954527
Italy	0.9996315085619788	18.677240377867332	0.9998152456433829	5.770226625111e-158	0.00216416327203965
Japan	0.9932312625015838	13.5925554806267627	0.999611223310605	1.595817718304666e-100	0.00853541993604745
Kazakhstan	0.9999100000000000	0.4600000000000000	0.9998000000000000	0.0000000000000000	0.0000000000000000
Korea, South	0.998388777897409	32.7305010467624	0.9998492673031225	1.5000000000000000	0.0000000000000000
Kuwait	0.9951169459049385	1.8740215371453804	0.99763161272555451	1.3921273114579769e-107	0.00719292330387117
Luxembourg	0.9996600285659392	0.126014108109236	0.99978398088055	2.41621613393756e-155	0.0021827945750391315
Malaysia	0.9996195702287559	0.595134225765738	0.99981362686681147	9.051192569156515e-158	0.0020253424082314945
Mexico	0.9974067673349678	3.35369493896676	0.99989900001941409	2.019661646730787e-119	0.00533086729227996
Moldova	0.9991189775352904	0.313966283686103	0.99956993769768	1.53118760893065e-142	0.0029767569001254
Morocco	0.998257984690318	0.99474586381014029	0.999711205408989	2.5074179988815956e-128	0.004263110854900907
Netherlands	0.999107303575276	2.0000000000000000	0.9998000000000000	0.0000000000000000	0.0000000000000000
Norway	0.999107303575276	1.9820273389038488	0.9998567610143895	1.512362630789976e-141	0.00308794814034898
Pakistan	0.9977176621953671	4.30571088134621	0.9986367445584847	1.6911139974792454e-118	0.005464338799186775
Panama	0.9991971073915786	0.827361871522758	0.999633420821137	1.324224447640576e-144	0.002836931167383524
Philippines	0.9980678431761833	2.32527474865305	0.9990057974295794	1.852833399872087e-125	0.00466819403967363
Poland	0.9996768872884543	0.7343828154744079	0.9994658479249374	1.848822350174072e-161	0.00138539539525993
Portugal	0.9996068370621443	1.6880286974519595	0.9997964211718589	4.60786311583146e-156	0.00214739152392549
Qatar	0.999107303575276	2.0000000000000000	0.9998000000000000	0.0000000000000000	0.0000000000000000
Romania	0.99974394194734659	2.742953622363919	0.9998614785322833	1.042866768831734e-163	0.0017291208876272
Russia	0.9993866760680361	0.7400000000000000	0.999694060288728	4.81607593872216e-148	0.002590136475271556
Serbia	0.9970161364086551	3.27235608712007	0.9985272604364393	5.59302239913628e-117	0.005677678374244866
South Africa	0.987272639120801	8.726590538737662	0.999355262439315	5.65123235206411e-88	0.01769676264696086
Spain	0.99942236082223	27.94433369529164	0.999710477890019	1.49006184640954e-149	0.0025126389572265
Sweden	0.9993917531975515	1.8262330530815177	0.9996919990489121	0.009546914881386e-148	0.0026008310746980932
Switzerland	0.9991953867409334	0.3012359691362642	0.9998819997092408	1.907245453974056e-167	0.00138539539525993
Thailand	0.999107303575276	-0.0000000000000000	0.9998000000000000	0.0000000000000000	0.0000000000000000
Turkey	0.9998676395740497	2.088023250587866	0.999934731351132	5.239214163553995e-178	0.00191748807546174
US	0.9998656452645543	19.912735964290692	0.9999329468289418	5.242472673880734e-178	0.001213857854635263
Ukraine	0.9999277575651541	0.8613075360911152	0.999511223088203	9.28971704798174e-139	0.00327523752667467087
United Arab Emirates	0.9992163949999503	0.8030330330035348	0.9996101315748577	3.7088516048130148e-143	0.002925761808692623
United Kingdom	0.999830160795298	3.738621763282375	0.999916270413339	1.28319290781083e-173	0.001356403232935623

4.2.6 Gompertz Semplice - Casi minimi 5000

country	slope	intercept	r value	p value	std err
Australia	0.99940988443207365	0.9075057858778768	0.99977616192400101	5.56977142744908e-147	0.00266089353957171/16
Austria	0.9995074657310821	2.286204686178305	0.99976035025757787	4.597441244048561e-153	0.00281305930324625
Belarus	0.996038937303531	3.279161464858391	0.9980513238866617	1.917837239745144e-111	0.006527936102898003
Belgium	0.999623483288075	2.976707115165803	0.999810624866587	1.582116683209515e-157	0.002037228391367993
Canada	0.999807355903645	6.33606793694453295	0.9995470303769764	2.838267482317778e-140	0.0031524594565963003
China	0.99951304237183607	0.999705132352750	0.999810624866587	2.838267482317778e-140	0.0031524594565963003
Czechia	0.9996144271836073	383.1304837413235	0.9997051735268666	0.999814563187449e-103	0.00281305930324625
Dominican Republic	0.998768207263339	0.838951762150532	0.999373188639201	7.62991196658366e-134	0.003078482456459597
Ecuador	0.99350127774434415	12.152244736279044	0.99974899721739267	2.421852851165656e-101	0.008418634944909
France	0.995190247196793	15.6132080783546	0.9975912372387347	3.930422071096946e-107	0.00725409249629119
Germany	0.9997724048562937	8.260101572508574	0.99989509544645180	3.0919509509369674e-167	0.00158892488768441
India	0.9995071303759	1.137000000000000	0.999810624866587	2.141000000000000	0.000000000000000
Indonesia	0.9993952320178951	0.8424901135282728	0.999816218162158058	1.117455105621937e-144	0.00281305930324625
Iran	0.9971826864782408	50.349359380484816	0.998905662237238	7.656360119982e-123	0.00849505115737264
Ireland	0.99685256084913535	8.640693450132403	0.9998427425982689	1.125443579274194e-115	0.0058671782140156905
Israel	0.999126179298715	2.664817815214724	0.999560010595993	7.6517954891449e-141	0.003107745202954527
Italy	0.9996315085619788	18.677240378776332	0.99981545643829	5.5770226625113e-158	0.00210416372030965
Japan	0.9932312625015838	13.59255548062677	0.9996111223310608	1.595817178304663e-154	0.008593541939634074
Korea, South	0.9995071303759	0.999810624866587	0.999810624866587	1.000000000000000	0.000000000000000
Malaysia	0.999518572027559	0.530541362325763	0.999816218162158058	9.051295691536215e-158	0.002032344080214945
Mexico	0.9974067673349678	3.3536564939866776	0.998990081914409	4.607966164733776e-119	0.005338678292279976
Netherlands	0.999711264257671	2.245989940503932	0.9998065269171394	1.52592665259833e-163	0.00715049584174571
Norway	0.99910703057526	1.982073789036488	0.9995676104143895	3.182366302879967e-141	0.003080915084134988
Pakistan	0.997216612953671	4.3057100813621	0.99863764455847	1.691149974793524e-118	0.00546438379186175
Panama	0.9991971037917576	0.827361871522758	0.999633402812137	1.92424440764576e-144	0.00283693167735324
Philippines	0.9995071303759	0.999810624866587	0.999810624866587	1.000000000000000	0.000000000000000
Poland	0.9996768827884543	0.7343828514477079	0.9998465874920442	1.1842273340714907e-161	0.00132385392552993
Portugal	0.9995068370261443	1.688028974519595	0.999746217117859	4.60786613991146e-156	0.002171473592152949
Qatar	0.9972168236049283	2.677750571004498	0.999809844742386	4.109211379759028e-118	0.005531756133720457
Romania	0.9997439418734659	0.274955632263918	0.999861704825823	1.043262686688134e-163	0.001742912088762278
Russia	0.99938660747683061	3.532472682726263	0.9996945082032872	5.59304229333826e-117	0.00259017639257471356
Serbia	0.9970161840806551	0.998527726043649	0.999810624866587	0.00567148244476547e-144	0.000000000000000
Spain	0.9995071303759	2.664817815214724	0.999810624866587	1.000000000000000	0.000000000000000
Sweden	0.9993917517395513	1.828243250515177	0.99986619995489171	6.99549114891362e-148	0.002060831074688000
Switzerland	0.999784386749784	1.5072539691788334	0.9998857097260408	1.90724548547811350e-167	0.001585382465472211
Turkey	0.9998676952740497	2.0880255878666	0.999934731357132	5.23934126738907346e-178	0.001749880750547162
US	0.9998656454265453	19.912735964200692	0.999932468828941	5.244276137807346e-178	0.001213856785432035
Ukraine	0.9992917573655141	0.8613071369071152	0.999511223082032	9.28977304798174e-139	0.003275736218867470087
United Arab Emirates	0.999216394999053	0.803033033036348	0.9996101315748577	3.170882051308146e-143	0.0029257362188692263

4.2.7 Gompertz Semplice - Casi minimi 10000

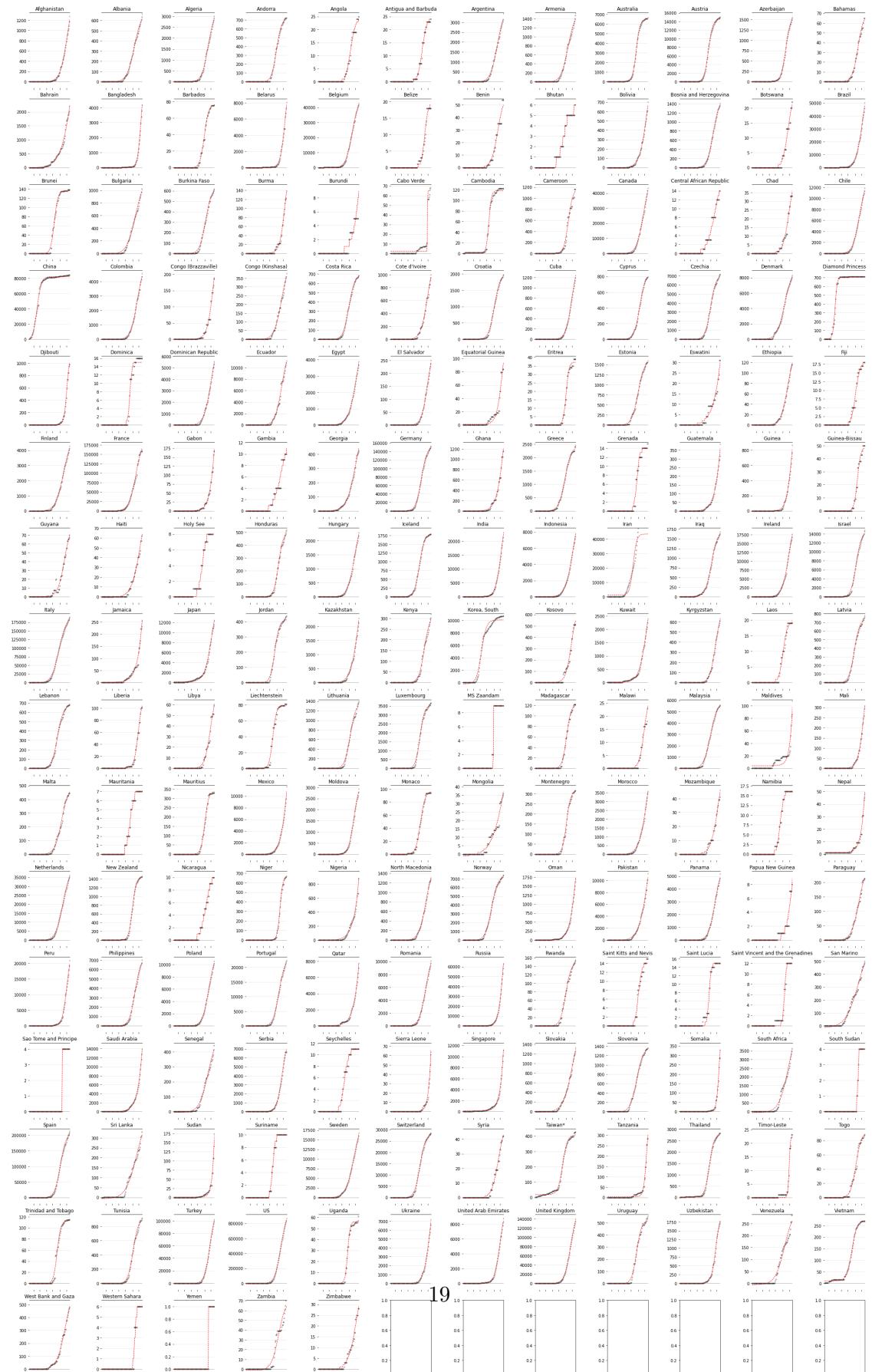
country	slope	intercept	r value	p value	std err
Austria	0.9995074657310821	2.286204568017828	0.999765295767787	4.39741244048851e-153	0.002813059303240235
Belgium	0.999083559033645	2.0490561659313	0.999457230386587	1.352116521599152e-157	0.003152435594545596003
Canada	0.999093559033645	6.336057693445325	0.9995473030796164	2.83826548231778e-140	0.003152435594545596003
Chile	0.999753093489209	0.3503068166730827	0.9998658637780629	2.631288998246694e-164	0.001716737058380597
China	0.9941589689926469	383.1304837431235	0.997051735268606	1.9859645636118374e-103	0.007988302363460676
Ecuador	0.9935012777434415	12.152244736279044	0.9967489921739267	2.4218525811465665e-101	0.00841846039444909
France	0.9951902471969793	154.61320807385346	0.9975912372383747	2.930426100796946e-107	0.0072540929462911
Germany	0.9997724048562937	8.260101572508574	0.999888509456189	2.3041950950396974e-167	0.0083889248876844
India	0.9997112642577617	3.34268082781626	0.999888509456189	2.3041950950396974e-167	0.0083889248876844
Iran	0.9978126864782408	50.349583938044816	0.998905663222738	7.745636021499823e-122	0.0489750511573772164
Ireland	0.9968525698419353	8.6460933450132403	0.9984272425882689	1.125443579274194e-115	0.0058677128140156959
Israel	0.9991261297989217	2.6648781278154274	0.9995600195005993	7.6517954981494e-141	0.003107954702954352
Italy	0.9996315085619788	18.677240378776332	0.9998152456433829	5.5770266251113e-158	0.002014613627203095
Japan	0.9932312625015838	13.59255480682677	0.9966112233130608	1.5958177183046663e-100	0.00853354199360754
Korea, South	0.9938867778978242	32.720051042076274	0.9969420709331225	1.5000419955612062e-102	0.00816662718686071
Lithuania	0.9997112642577617	3.34268082781626	0.999888509456189	2.3041950950396974e-167	0.0083889248876844
Netherlands	0.9997112642577617	2.2459899405093923	0.9998605269171394	1.5576926652599833e-163	0.001750489541874517
Pakistan	0.99772116621953671	4.305771088413621	0.9986367644554847	1.6911149974792544e-118	0.0054643387959186775
Poland	0.9996768672884543	0.7343828514472079	0.9998465847920442	1.1848223540174926e-161	0.001835853939552593
Portugal	0.9996068370621443	1.688028679451955	0.9997964211718589	4.607861358991146e-156	0.0021173592152949
Romania	0.9997439418734659	0.274956322639819	0.9998617405822853	1.0432626866788314e-163	0.0001742912088762778
Russia	0.999724048562937	0.36177426872816263	0.9998855709720408	1.01616265212204e-146	0.0001742912088762778
Spain	0.99942236082322	27.94326938245	0.999710427890019	4.19261384409494e-149	0.0023216358572245
Sweden	0.9993917531975515	1.8282633508151775	0.9996911990489121	6.995469114881383e-148	0.0026083107468098332
Switzerland	0.9997849386749784	1.5012539691788334	0.9998855709720408	1.907245584713305e-167	0.0015856461246722211
Turkey	0.9998676952740497	2.0880232505878666	0.9999347431357132	1.52934163553995e-178	0.0011974880705461742
US	0.999865645265453	19.912735964200692	0.9999329468289418	5.242472673980734e-178	0.0012138567854632035
United Kingdom	0.9998330160795298	3.7362817363282375	0.9999162704113339	1.2831929061781083e-173	0.0013564023329256357

4.2.8 Gompertz Semplice - Casi minimi 20000

country	slope	Intercept	r value	p value	std err
Belgium	0.9996234832898075	2.9767071151663913	0.9998109624866587	1.582112685209515e-157	0.002037822391367993
Canada	0.999083559033645	6.3360676934453295	0.9995473030796764	2.83826748231778e-140	0.003152435594545596003
China	0.9941589689926469	383.1304837431235	0.997051735268606	1.9859645636118374e-103	0.007988302363460676
France	0.9951902471969793	154.61320807385346	0.9975912372383747	2.930426100796946e-107	0.0072540929462911
Germany	0.999724048562937	8.260101572508574	0.999885094456189	2.3041950950396974e-167	0.0083889248876844
India	0.9997139518876539	1.3631770555207368	0.99975092998114	2.346446051915714e-152	0.003225716086071356
Iran	0.99972116621953671	3.34268082781626	0.9998885094456189	2.3041950950396974e-167	0.0083889248876844
Italy	0.9996315085619788	18.677240378776332	0.9998152456433829	5.577026625113e-158	0.002014613627203095
Netherlands	0.9997112642577617	2.2459899405093923	0.9998605269171394	1.5576926652599833e-163	0.001750489541874517
Portugal	0.9996068370621443	1.688028679451955	0.9997964211718589	4.607861358991146e-156	0.0021173592152949
Russia	0.9993866074680361	3.534267728726263	0.9999645080283782	4.81607593872216e-148	0.0025901639257471356
Spain	0.99942236082322	27.9433965926146	0.9997104727890019	4.190061864409594e-149	0.00252163589572265
Switzerland	0.9997849386749784	1.5012539691788334	0.9998855709720408	1.907245584713305e-167	0.0015856461246722211
Turkey	0.9998676952740497	2.0880232505878666	0.9999347431357132	1.52934163553995e-178	0.0011974880705461742
US	0.999865645265453	19.912735964200692	0.9999329468289418	5.242472673980734e-178	0.0012138567854632035
United Kingdom	0.9998330160795298	3.7362817363282375	0.9999162704113339	1.2831929061781083e-173	0.0013564023329256357

5 Interpolazione su Logistica Semplice

5.1 Grafici



5.2 Tabelle

5.3 Logistica Semplice - Casi minimi 0

country	slope	intercept	r value	p value	std err
Afghanistan	0.9982651530798269	0.2535847260120845	0.9990705440184839	4.610122874364177e-126	0.004514997703081767
Angola	0.99634212010263574	1.884348616717479	0.99818986466456143	7.58897460790585848e-113	0.006301358051018838
Andorra	0.99700948935011400	0.5911557633669986	0.9985950583021368	6.8566433231135612e-118	0.0055460111331151871
Angola	0.984620488481676	0.1199086584733367	0.99528548256961043	4.70107903439056e-86	0.0137235629598728
Antigua and Barbuda	0.9968373636794686	0.006590801327645224	0.999625224222372	5.487126664648489e-97	0.009418719607618793
Argentina	0.9971120200000000	2.000000000000000	0.9999999999999999	4.494999999999999e-10	0.0000000000000000
Bahrain	0.99156315285757	3.40000650980026	0.995175981394942	4.5753899809467476e-96	0.009613599114852061
Barbados	0.9942122874679931	2.4993818474989488	0.9987040883108731	1.690499840282155e-119	0.00531108722357096
Belarus	0.9946711287793917	3.9360369879015025	0.9973294023100351	3.18793224887733e-105	0.007635707539824929
Belgium	0.998249530969346	14.26861163487147	0.9992141465027664	3.093426064280109e-127	0.004832619214074903
Belize	1.000000000000000	0.000000000000000	0.9999999999999999	1.666666666666666e-109	0.0000000000000000
Benin	0.97150303176746607	0.390458030363067	0.9988786708100558	7.27352951780807e-74	0.016662374483100252
Bolivia	0.9980179454921986	0.1599911417726929	0.999988633046485	0.905755176570364e-156	0.0021303952739975007
Bosnia and Herzegovina	0.9988512851746996	0.279341072240813	0.9993425798113825	6.6639559912885516e-133	0.00379044015486717
Azerbaijan	0.995273013085356	0.043395769268149	0.99970386831406	0.4945610778720037e-150	0.0024311419738902
Cambodia	0.9999999999999999	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Bahamas	0.99156315285757	3.40000650980026	0.995175981394942	4.5753899809467476e-96	0.009613599114852061
Bulgaria	0.9921120203505091	1.106017993220568	0.99604931216801	1.4907137945804587e-97	0.00928958050640319
Barbados	0.9942122874679931	2.4993818474989488	0.9987040883108731	1.690499840282155e-119	0.00531108722357096
Burundi	0.87897120895101	0.15129547592080557	0.938481113038174	6.526565267222867e-44	0.00379602568519698
Cambodia	0.9973509654293788	0.05864478535699534	0.9995535462501111	5.9346176068403033e-107	0.007326709359493703
Central African Republic	0.99814144933385	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Central African Republic	0.971354799513973	0.10312970833971	0.98786071305392	2.70224676170724e-72	0.0173529881357051
Chad	0.986366809660354	0.05917304489736497	0.991395870016866	3.67904825465893e-82	0.01365227032760185
Chile	0.99819370829577	0.1491530612093319	0.9987420874061265	7.123439030262440e-77	0.015428977626753116
China	0.9999999999999999	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Colombia	0.99755402317853	1.789898452341607	0.998176581394942	4.5753899809467476e-96	0.009613599114852061
Congo (Brazzaville)	0.9840756909698533	0.407686280000000	0.998376700257304	4.741089527488767e-115	0.00596108722357096
Congo (Kinshasa)	0.9946818941565121	0.3451622336735276	0.9972506087581166	1.194924749737531e-104	0.007748074001758055
Costa Rica	0.99811414933385	0.30274150862470606	0.9989315465027668	2.7416951998165846e-123	0.00481119649186049
Cote d'Ivoire	0.9961830224824525	0.5031186686503597	0.9988013345607685	4.87886970288491e-111	0.0085326535997848
Croatia	0.99713485208179	1.294524124727387	0.998587550535182	8.616169548905268e-38	0.00556273184894375
Cuba	0.999217942392826	0.1599911417726929	0.999988633046485	0.9209542937054987e-123	0.0048239306664453e-134
Cyprus	0.9988512851746996	0.279341072240813	0.9993736448333976	0.003707754598633976	0.003707754598633976
Czechia	0.99872516081109109	3.584827211967444	0.999101828695759	7.123439030262440e-77	0.015428977626753116
Diamond Princess	0.997632500000000	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Djibouti	0.999474747515393	0.15370269802685	0.9971379458045212	5.51361709455867e-109	0.0093815454647372
Dominican Republic	0.9973523407309188	0.151804247785815	0.9991322677472106	1.375923262931940e-83	0.013129306799593
Ecuador	0.993237000000000	12.466872340257623	0.9966375134063609	4.71085237488767e-115	0.00596108722357096
Egypt	0.995952920502743	0.2930973515051937	0.9975532887239729	1.302823273074384e-100	0.00856306146907338
El Salvador	0.998111141300000	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Eritrea	0.995162413783728	0.1071178549582001	0.9967305704748444	2.220240149644898e-107	0.00714381541134649
Ethiopia	0.99699369303936904	0.20076145515394638	0.999626099386996378	1.294204451511536e-144	0.00282353112211409
Fiji	0.981904477464837	0.059173044746874	0.9981379867291895	7.37305086664453e-82	0.003707532988760185
Finland	0.992027080827919	0.1491530612093319	0.999101828695759	7.123439030262440e-77	0.015428977626753116
France	0.9991120203505091	1.789898452317853	0.998176581394942	4.5753899809467476e-96	0.009613599114852061
Gabon	0.9928508791305087	0.1307043435063593	0.9982176260637318	1.160672364231256e-98	0.009085078568522405
Gambia	0.960637202231268	0.091410848130084316	0.9973197970960494	7.348626881328686e-64	0.02104969676672714
Georgia	0.9973714817398529	0.1923626455774848	0.9983215095409593	3.74508659418383e-76	0.0158210831723498
Germany	0.998981304933385	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Greece	0.9982108145027473	0.011608145027473	0.9997261081744717	3.417336347428249e-142	0.002973415852212991
Grenada	0.9981904477464837	0.059173044746874	0.9981379867291895	7.123439030262440e-77	0.015428977626753116
Guatemala	0.992005317128877	0.0799489528157457	0.9996136036976019	5.486431895628725e-112	0.003734117595157214
Honduras	0.997632500000000	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Iceland	0.999581730000000	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
India	0.99896180246171782	0.13021586178520311	0.99948109619949179	1.41354197580222	0.00282353112211409
Indonesia	0.992005317128877	0.0799489528157457	0.9996136036976019	5.486431895628725e-112	0.003734117595157214
Iraq	0.9991120203505091	1.42137815213972	0.997717733858150	1.523299132550867e-109	0.009085078568522405
Ivory Coast	0.9970257293955001	0.13553177321478	0.9981334520501113	0.0000000000000000	0.0000000000000000
Italy	0.9970257293955001	0.13553177321478	0.9981334520501113	0.0000000000000000	0.0000000000000000
Jamaica	0.9993817732237322	0.03640456957519	0.9984142653145831	1.713945530550894e-115	0.0058967417097578
Japan	0.995816417373656	8.35912427150153	0.997922019040217602	4.744026471379481e-121	0.005118916289813923
Jordan	0.995905107148899	0.0498334562008000	0.999587928663562113	3.55711252958848e-110	0.006740413948638092
Kazakhstan	0.999000000000000	0.000000000000000	0.9999999999999999	0.0000000000000000	0.0000000000000000
Kenya	0.99270783566401	0.3339161700703989	0.99661475892259193	2.580124312610708e-97	0.0093184681636134598
Korea, South	0.98863120406121137	1.2639898824027415	0.9942950932325575	1.035739701730645e-90	0.011775195137337
Kosovo	0.9853998624034503	1.1950887670076027	0.998236625217042	9.002836625217042e-96	0.0021043104262647428
Kuwait	0.9948516248240856	0.000000000000000	0.99916245865731362	1.252808071291974	0.002923531210907284
Lao PDR	0.9979120203505091	5.535000000000000	0.9984993046534883	1.376052207039745e-103	0.004923531210907284
Latvia	0.9993817732237322	0.277658151054795	0.9970522939205350	1.523299132550867e-109	0.009085078568522405
Lebanon	0.9992210203505091	0.13553177321478	0.9981334520501113	0.0000000000000000	0.0000000000000000
Liberia	0.9944222336735276	0.03640456957519	0.9996199453224221	6.5265622336735276e-112	0.0053564104536793
Lithuania	0.9993817732237322	0.13553177321478	0.9981334520501113	0.0000000000000000	0.0000000000000000
Luxembourg	0.9993817732237322	0.13553177321478	0.9981334520501113	0.0000000000000000	0.0000000000000000
Macedonia	0.9993817732237322	0.13553177321478	0.9981334520501113	0.0000000000000000	0.0000000000000000
Malta	0.9943887732237322	0.277658151054795	0.9970522939205350	1.523299132550867e-109	0.009085078568522405
Morocco	0.997288707161454	1.3954557363628328	0.999862396931120	2.1406236132282282e-118	0.005457441392352334
Mozambique	0.987240525038977	0.1472469832205276	0.9946671712610521	2.798740414023226e-94	0.002454250380712e-52
Namibia	0.99438439958154646	0.045670078620341	0.997709168997635	3.062832679645742e-108	0.0070972965327509
Netherlands	0.9993817732237322	0.13553177321478	0.9986793211201647	2.719744014402101e-106	0.0049520077444303e-86
New Zealand	0.9993817732237322	0.13553177321478	0.9989937871733394	2.719744014402101e-106	0.0049520077444303e-86
Nicaragua	0.998757404987829526	0.0993990228395375	0.999302288723228953	2.207477351947536e-134	0.00365852635238806
North Macedonia	0.9973522190877237	0.144140217847443	0.999849474586446	1.253299132550867e-109	0.009303361310403923
Papua New Guinea	0.9427397106018807	0.060244355610600807	0.996673589703465	1.9954028374452037e-106	0.02458590373445204
Paraguay	0.9993817732237322	0.13553177321478	0.9984514556200800	2.34652706777447e-106	0.0049520077444303e-86
Philippines	0.99				

5.4 Logistica Semplice - Casi minimi 100

country	slope	intercept	r value	p value	std err
Afghanistan	0.9982651530789769	0.258842160120845	0.9800000000000000	4.610122874741176-126	0.0045148970303176
Albania	0.99934545538901	-0.2999999999999999	0.9890312149174752	3.0583870000000000	0.00455252930117122
Algeria	0.996421910263574	1.884424866174729	0.9881898645651643	7.584976490580486-113	0.00530155051918838
Andorra	0.9970094850411004	0.5911557633669986	0.9895950583021366	6.656643323113561e-118	0.005546011133115871
Argentina	0.9957743713587626	2.61874240240744	0.9979114527936777	4.47969987503402e-110	0.006757073834906762
Armenia	0.99934968238465043	1.9414588371321884	0.9960821048602871	1.145916456170601e-101	0.00834903843557638
Australia	0.9995568693284889	0.9290275770438257	0.999793735455718	9.057551765703646-156	0.002103952739975007
Austria	0.980888281014681	0.9999999999999999	0.9999999999999999	6.6839530000000000	0.00455252930117122
Azerbaijan	0.999310392682056	0.043397678260913	0.9739248831406	1.8000000000000000	0.0045431141978902
Bahrain	0.99116315285757	0.4076088260000006	0.995719681394942	4.575380989046476e-96	0.00961159971485206
Belarus	0.9946711287793917	3.936036987910525	0.9973294023100351	3.187932248587733e-105	0.007635707359824929
Belgium	0.9982498530969346	1.26661631487174	0.9991241465027664	3.09426604280109e-127	0.004382629120470493
Bolivia	0.9980119454926186	0.159991141726929	0.998396833046485	1.9230954229393705e-123	0.004823930668718187
Bosnia and Herzegovina	0.9988512817469996	0.2793417202488613	0.9993736404207965	0.003707754986339736	0.00455252930117122
Brunei	0.9953522282688	0.1786803793220874	0.9988880000000000	2.0076500000000000	0.00455252930117122
Bulgaria	0.999311030568591	1.786803793220874	0.9988880000000000	2.0076500000000000	0.00455252930117122
Burkina Faso	0.9967143557153447	0.4076088260000006	0.99883760700252304	4.741089527487867e-115	0.00565100878493326
Cambodia	0.9973509654923738	-0.05844785358695034	0.99575535446250111	5.9346176056804033e-107	0.007326709359493703
Cameroon	0.985262530803703	3.09273649311187	0.9924945177288836	7.52875895839108e-85	0.01272597071922803
Canada	0.997173480808179	19.27942126773297	0.998587053531822	8.61828954805086e-118	0.00556232848894375
Chile	0.98199174721197444	3.5362121197444	0.9974887053522570	9.74936184846186e-127	0.004823930668718187
China	0.99945445826206	2.90302616090069	0.9977988235314607	0.0039454582605869	0.00455252930117122
Colombia	0.997550231787007	1.798998452341607	0.9987685815918207	1.6592084917535563e-120	0.0051943456847372
Congo (Brazzaville)	0.984057609098533	0.45367804147155155	0.99199768717874106	1.37590236914034e-83	0.01312930679953
Congo (Kinshasa)	0.9946818941651212	0.3451622238637526	0.997250608751166	1.1949247449737531e-104	0.0077480700175805
Costa Rica	0.9981714149333858	0.302714510862470606	0.9983935815762683	2.71416951999168125e-123	0.004831196491486049
Cote d'Ivoire	0.9961028724824452	0.503144666880597	0.998013345167685	4.6117784990772894e-111	0.0092365839975648
Croatia	0.999311030568591	0.1786803793220874	0.9988880000000000	2.0076500000000000	0.00455252930117122
Cuba	0.992191743557153447	1.1613895341628126	0.99937447854958	3.07113895341628126	0.00455252930117122
Cyprus	0.994669643732766	0.08115821974479995	0.998366088996378	2.932409445151153e-144	0.008285233132211109
Czechia	0.998275611089109	0.999364552107001	1.41966209329646451e-133	0.00373417559157214	0.00455252930117122
Diamond Princess	0.9976303917955668	1.2874856751684547	0.9988570042072297	5.88001604984826e-122	0.00500728034493126
Djibouti	0.994937474578393	0.753702068061485	0.99784754852762	6.51361794058687e-109	0.006953820454023542
Dominican Republic	0.99316550954632	2.248623736144964	0.9986570341208986	8.557471311719515e-119	0.0054237238946052
Ecuador	0.999311030568591	0.1786803793220874	0.9988880000000000	2.0076500000000000	0.00455252930117122
Egypt	0.9995392355702271	0.29300735155561597	0.9995719681394942	1.97848044325056e-152	0.0021319278404616265
El Salvador	0.979863626930854	0.0807240466718387	0.998843907214796	1.859264806061678e-122	0.00494533923894211
Ethiopia	0.9969693396339604	0.20076145153594638	0.99821477121491	3.796138740142050e-131	0.003964079074840446
Finland	0.9982070812197842	1.1569526983365757	0.99908009997169	2.611034207090633e-126	0.00446866566582206905
France	0.999560851953050894	142.812262753072	0.9977771772888175	7.526399326430186e-109	0.006925723998753
Gabon	0.999311030568591	0.9974093917095087	0.9987685815918207	1.22103409835225561e-98	0.00398580839833922
Greece	0.99737481397539	0.1931784521754894	0.9981544662555	7.048034980833922e-122	0.0050170707772847
Germany	0.998897457802935	40.56769834715669	0.99944815322970918	2.32668178587034e-136	0.00348020390703905
Ghana	0.9986445404048843	1.537870421311296	0.99487853985192601	5.025830329901922e-92	0.01063593873023267
Greece	0.9988218890566043	0.7217294474493288	0.9994139633783781	2.345569666786098e-135	0.00369345339973693
Guatemala	0.9961046862001924	0.1901347672905942	0.99813476783114	1.641631985268725e-112	0.006387161773004132
Guinea	0.99700633320153989	0.1671024842020332	0.998054805420796	0.0031210588767976966	0.00455252930117122
Honduras	0.999311030568591	0.172324271193476	0.998054805420796	0.0031210588767976966	0.00455252930117122
Hungary	0.999311030568591	0.653437385240993	0.9993210323622508	2.9008505871544664e-125	0.00460650426764537
Iceland	0.9996838644130445	0.14468676178762507	0.999787261973474717	3.412185816767476e-155	0.001716959409979127
India	0.9989682416711782	2.758637155823011	0.9994810961949719	1.141354197258022e-137	0.00374803898259786
Indonesia	0.9992017511287787	0.979948952251787	0.9996136036976019	2.110751114880188e-143	0.0029126568689399246
Iran	0.9541305120744029	2.8924255646476824	0.9984982819082046	3.8968179437557074e-74	0.02084682497647523
Ireland	0.999311030568591	0.1786803793220874	0.9988880000000000	2.0076500000000000	0.00455252930117122
Israel	0.996323553575001	9.70427392320874	0.9988437304958	1.8474533268894e-115	0.0050869717109757
Italy	0.9976089449368899	122.224271473882	0.99804140962855	4.377440295919868e-121	0.00511899162851393
Japan	0.9958541674737365	8.359112427150315	0.997922021904127	3.57711369027340186e-116	0.006740439148638092
Jordan	0.9995057014088970	0.4999559107382245	0.997812266765168	2.6482596302949e-109	0.00691619833208395
Kazakhstan	0.9969931284206304	0.0514700111111111	0.998481154083500	2.264499445025396e-116	0.00756572917611111
Kenya	0.9927087359668401	0.3339161700708999	0.9960147589225913	5.2180121431607084e-97	0.009318468016814598
Korea, South	0.999311030568591	0.1786803793220874	0.9988880000000000	2.0076500000000000	0.00455252930117122
Kosovo	0.9985279765087783	0.11959027356027	0.99930873549809321	2.8609534209763783e-125	0.004608077662096014
Kuwait	0.996484516478966	1.252808071291497	0.99828524936364803	1.1564065847503614e-113	0.00613450025424911
Kyrgyzstan	0.9985729765087783	0.4975657907884097	0.9982784946261512	7.1206200000000000	0.0052715022022897431
Latvia	0.9973084914495696	0.4975657907884097	0.9982784946261512	7.1206200000000000	0.0052715022022897431
Lebanon	0.9977514495696	0.0514700111111111	0.9957611505214934	1.0556816176236162e-95	0.005039953799510776
Liberia	0.99422153394643	1.9303579701306456	0.9973105874470000	3.830564567826626e-93	0.007601359342828630
Lithuania	0.999311030568591	1.503579701306456	0.9983728358952663	7.0935010999869353e-99	0.002328131062287243
Luxembourg	0.9974012701041113	0.4107683473585028	0.9989723093812461	2.015716902127562e-119	0.005112111111111111
Madagascar	0.9975935216961576	-0.04198263079216205	0.998161043276251	1.37625616581825112e-112	0.006350877125440978
Malaysia	0.9984364569533536	2.3210218601089703	0.9991689453220241	2.7038063605037575e-128	0.004267031462869749
Maldives	0.988188325546705705	1.0880770928732448	0.9943205222031234	2.8434725612447594e-45	0.03284896357117451
Mali	0.998240154052747473	-0.02719332313198	0.99867474473224713	0.00382676021550598	0.00455252930117122
Mauritius	0.9979533957151965	0.420745135486308	0.9983118438730744	0.00351843254943882	0.00455252930117122
Mexico	0.999311030568591	0.1786803793220874	0.9988880000000000	2.0076500000000000	0.00455252930117122
Moldova	0.999125165600334	0.3050891781918115	0.998995885611691149	1.18940838836882815e-138	0.003238405717859714
Montenegro	0.99766195970623	0.1128940495826638	0.99869113912089855	6.323636674089447e-119	0.00535641104536751
Morocco	0.99972894701761454	0.395945749056693129	0.99862937646132822e-118	0.00547874413932534	0.00455252930117122
Netherlands	0.9982705617052664	0.0514700110179207	0.999101010129197013	1.012444186162202e-126	0.004444028188962564
New Zealand	0.9992266319651203	0.3266932117111111	0.9995128988399895	2.7387000999869353e-129	0.003284968156831563
Niger	0.9979372765313813	0.4443150217817474	0.9988484793702133	1.2471057425162468e-123	0.004809328828721722
Norway	0.998863838288028	0.9984468663049744	0.9994247446882882	1.1472040937305456e-135	0.00351843254943882
Oman	0.99886586586115345057	0.189233497420796	0.999056200761605	9.976834447763268e-135	0.00362700889740427
Pakistan	0.9983681794466443	0.4098861794466443	0.9991897979553624	1.3783350817015749e-110	0.006734561981080633
Paraguay	0.999570517727321	0.1623573852413505	0.9989187977353566	3.0783350817015749e-110	0.00455252930117122
Poland					

5.5 Logistica Semplice - Casi minimi 500

country	slope	intercept	r value	p value	std err
Afghanistan	0.9982651530799269	0.2535842780120845	0.9990705440184839	4.6101228274364177e-126	0.004514997703081767
Albania	0.995935354538301	0.46912721093535	0.9981034931449352	3.1549763474348e-111	0.005301560949180723
Algeria	0.998127745574	0.884241770174574	0.99810399845465143	0.005301560949180723	0.005301560949180723
Andorra	0.9970094850111004	0.5911557633669986	0.9985959583021366	6.6566433231135611	0.00554601113115671
Argentina	0.9957747313587626	2.618744240240744	0.9979114527936777	4.47969875034026e-110	0.0067570738349906762
Armenia	0.9993496823846503	1.9414588371321884	0.9968024048602871	1.145916456170601e-101	0.008349038483557638
Australia	0.9995568693284889	0.9290275770438257	0.999793735455718	9.055755176570364e-156	0.0021303952739975007
Austria	0.9986882867014681	5.530134650506285	0.999342579813825	6.6039559912885516e-133	0.003798040115486717
Azerbaijan	0.998009305305356	0.000000000000000	0.9999999999999999	1.8495618670000000e-150	0.0000000000000000
Bahrain	0.9911543157	3.400000000000000	0.9999999999999999	4.728809988888888e-150	0.00961159971485206
Belarus	0.994711287793917	3.9360369879105205	0.99732340023100351	3.187932248857733e-130	0.00976357035924929
Belgium	0.9982498530969346	14.268611631487147	0.9991241465027664	3.093426064280109e-127	0.004382629124074903
Bolivia	0.9980179454926186	0.1599911417/26929	0.9989386833046485	1.923095429393705e-123	0.004823930666818187
Bosnia and Herzegovina	0.9988511635746996	0.2793410720488613	0.99973447024488613	7.3730707554986339736	0.0037077554986339736
Bulgaria	0.9921121020580051	1.7803017932205098	0.9960604931216801	1.490773374805847e-97	0.009238958050604319
Burkina Faso	0.998000000000000	0.000000000000000	0.9999999999999999	4.774444444444444e-131	0.0000000000000000
Cameroun	0.995262530803703	3.093776493111037	0.992494517288836	0.00961159971485206	0.017725970717228002
Canada	0.9971734850808179	19.279421426773237	0.998587055351822	8.618289548090586e-118	0.005552324888494375
Chile	0.9981993708925772	3.584827119767444	0.9991018279892579	9.7194293874832e-127	0.0044379615690386
China	0.995576642866946	298.0328692606199	0.9977811837375606	6.196849598350558e-109	0.006944599160379768
Colombia	0.9975540231782609	0.290000000000000	0.998991845255636	0.0050194394546847378	0.0050194394546847378
Costa Rica	0.9981988411634883	0.300000000000000	0.9988888888888888	1.7748000000000000	0.0000000000000000
Cote d'Ivoire	0.9981802744924242	0.530144668830397	0.99803343451067685	4.0077848907728945e-111	0.0053235353838975048
Croatia	0.997788441168616	0.98821364568340536	0.99886726983567755	3.653522162957624e-122	0.00498176723713625
Cuba	0.999219743293826	0.16138963416281626	0.99959734015849598	1.377136347428249e-142	0.002913415852212991
Cyprus	0.9994696437322766	0.08113582197447995	0.9996366089996378	1.2932409445151153e-144	0.00282531132211409
Czechia	0.998727561089109	0.000000000000000	0.9993645527017001	1.14966160949848263e-122	0.005374117559157214
Diamond Princess	0.9976303971955668	0.998857515684547	0.998857515684547	0.005007228000000000	0.0000000000000000
Djibouti	0.998000000000000	0.000000000000000	0.9999999999999999	6.5216000000000000	0.0000000000000000
Dominican Republic	0.997316505954623	2.2485237361444964	0.9986570341208896	8.85741171195156e-119	0.0054273389504652
Ecuador	0.9932793068331134	12.466872340257623	0.9966375134036609	1.1202832770347384e-100	0.008560386146971338
Egypt	0.9995392205502271	0.29300753155561597	0.9995753283729223	1.9784804433452055e-152	0.0023182787404616765
Finland	0.998520701279842	1.5659226983567578	0.99908009997169	2.611034207090633e-126	0.004486566582206095
France	0.995608535050894	142.8122627530720	0.997777171858175	0.00693257234989753	0.00693257234989753
Germany	0.998000000000000	0.000000000000000	0.9999999999999999	2.3838888888888888e-136	0.0000000000000000
Ghana	0.9896445409494853	1.337874032118647	0.994785693192601	5.0251853973232367	0.01052593973232367
Greece	0.9988218895606403	0.777129447449328	0.99941936332783871	3.455869666786098e-135	0.00356645333976666
Guinea	0.9970063320153989	0.16712048420325232	0.9980548450387136	1.127336587976796e-116	0.005721651998348666
Honduras	0.996492028785775	0.43423398872648555	0.99829938633627311	4.534835728664286e-114	0.006109681086784938
Hungary	0.9980797162429954	0.6534378352409931	0.9990321832623508	2.9080505871544664e-125	0.0046605304627646357
Iceland	0.9996838644130445	0.14468376178762507	0.9997872691749764	3.12181584818676474e-155	0.0019659490929127
India	0.998000000000000	0.000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
Indonesia	0.99920531723877	0.799489222815747	0.99961360369760193	2.1107511348801886e-143	0.0029176349893029240
Iran	0.9541305120744029	2892.4255564678624	0.99482989219080246	3.8968119437755707e-47	0.0209463824976152
Ireland	0.997921430749181	5.590969792116084	0.99865365918481	6.04093874928286e-124	0.00472627656843974
Israel	0.9968235352559001	7.904257292903549	0.9984114624543841	1.7194755306894e-115	0.00589674170975278
Italy	0.997608944936899	122.0242729290349	0.9988414096286355	4.37744026147388e-121	0.005118916281391393
Kazakhstan	0.9980451674737665	0.355200000000000	0.999109871749307	3.5520000000000000	0.000404040404040404
Korea, South	0.998823046501211137	0.0022361874849500	0.9986481723111176	2.244489444523259e-116	0.00576232291761166
Kosovo	0.9853899862340543	60.73989981024715	0.9984295932325575	7.973031430562679e-99	0.011177159615137337
Kuwait	0.9984895416728966	1.252808071291497	0.998286652517042	9.0802376347151569e-86	0.012431064226887428
Kyrgyzstan	0.9985279765087783	0.051471735600779224	0.9990324789083221	1.1654065847503614e-113	0.0061734502442911
Latvia	0.9973804914495696	0.49756579078874097	0.9987284923615216152	7.1206020005339911e-120	0.005277502446907431
Lebanon	0.998000000000000	0.000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
Lithuania	0.994632483377148	1.0352797071305435	0.99713849417507508	3.36395152150226e-105	0.00760159934286436
Luxembourg	0.9974123101041113	0.7771230812412461	0.99897123081246858	1.265716921427562e-119	0.005311711907287743
Malaysia	0.9983469595335356	2.321301801089703	0.99961968453220421	2.7038063605037576e-128	0.00426703142869749
Mexico	0.996656017951905	4.207457135486302	0.99833118453706444	1.636199158566105365e-114	0.00604228514864204178
Moldova	0.9991252015600354	0.305089719189415	0.999508585976611049	1.1894908338638215e-138	0.003284805717859174
Netherlands	0.9983728937034	0.313700000000000	0.99862366396307023	2.14040874432682e-118	0.007884338874439524
New Zealand	0.99922691521618596	0.36411928845808530	0.999861145021228267	2.717934124243083e-143	0.002920824262394563
Niger	0.9992059183512392	0.0126693215170831	0.999515218740811845	7.953010987341866e-139	0.0032770556883156593
North Macedonia	0.997917276513813	0.4441450218714743	0.998948743021335	1.247105742516426e-123	0.00480043828271222
Norway	0.998686383288028	0.2478466303492744	0.9994248831468827	1.14782073373054e-135	0.003541843259943882
Oman	0.9988633857656819	0.1892334397427078	0.999400450860271605	9.97688344476326e-135	0.0036270003888040427
Pakistan	0.99856367777983	0.0022361874849500	0.99990029861950936	3.7220000000000000	0.0000000000000000
Panama	0.998671631853	1.34363470848693	0.999138976458393	9.941837442363e-119	0.004315467773723036
Philippines	0.9958648099523995	5.41070956519282	0.9994787371773934	2.03158108724010110	0.0066983218042835
Poland	0.9987637353879269	2.2337171019646576	0.999099288229583	6.690577375160773e-82	0.01369277119930246
Portugal	0.9978525251329373	9.51494850823224	0.99892544640216621	3.379193357990935e-123	0.00485316310402913
Qatar	0.9972407560287373	2.651412940847464	0.9986214295631957	2.8123525768840623e-118	0.005494879740446531
Romania	0.9986470423362842	2.294279828707431	0.9993231345483557	2.307424228093076e-132	0.00485316310402913
Russia	0.998000000000000	0.000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
San Marino	0.998718776322424	1.52584715157101	0.999359528012406458	4.183587295860205e-89	0.01133997171806215
Serbia	0.9983695322199997	1.661368065506121	0.9996125574393609	4.023683355438867e-128	0.004245340720402041
Slovakia	0.99612185695864	0.9190367034378558	0.9980845167273745	8.782879879503879e-112	0.006472477172502808
Slovenia	0.9982198972651526	0.709845571355089	0.9994901125052239	1.3009126017738e-125	0.0045661292192432699
South Africa	0.9827050157052523	11.92620075365005	0.9912815530836057	6.690577375160773e-82	0.01369277119930246
Spain	0.997564535350522	118.30566181345057	0.998781128090723	1.0414899364430524e-120	0.0051678706037488085
Sri Lanka	0.998000000000000	0.000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
Switzerland	0.998304367015605	13.07593528459161	0.999151572479735	7.72844078883075e-128	0.0043136125438527575
Thailand	0.9986678311663036	0.9654316632937707	0.99952358725432886	2.0867851269054144e-132	0.003845971265558055
Urusia	0.99577465607522	1.0155547718345304	0.9980009286194792	6.12164343608382e-111	0.006610309194005652
United Arab Emirates	0.99889169399524	1.204062403213484	0.99943343930046745	1.934087977323234e-109	0.0035621613043921402
United Kingdom	0.999268092252704	16.550157343990577	0.99963449164028	1.68456723087393e-144	0.0028398543166313

5.6 Logistica Semplice - Casi minimi 1000

country	slope	intercept	r value	p value	std err
Afghanistan	0.9982651530799269	0.2535842780120845	0.9990705440184839	4.610122827436347e-126	0.004514997703081767
Algeria	0.99634212910263574	1.88443486617479	0.998184986456143	4.607946479058468e-113	0.00630135805191883
Argentina	0.99577347135876726	2.618744240374744	0.9997914523796377	4.749699934830426e-101	0.006757073834996762
Armenia	0.99557344530000000	1.5037502050000000	0.9999715000000000	1.0000000000000000	0.0000000000000000
Australia	0.9995568692784389	0.9290275770438257	0.99979373535359718	9.057553167576304e-156	0.002130395738975007
Austria	0.99868286370164681	5.3301346505062085	0.998342579813825	6.6639559912885516e-133	0.003798041014586717
Azerbaijan	0.9995273031805356	0.0433957678200787	0.9997309286831406	1.4945610778782007e-150	0.0024311419738902
Bahrain	0.9915631285757	3.40006550989426	0.9995751693139494	4.57538908946474e-96	0.009615997155914785e-2061
Belarus	0.9946711278793917	3.9360369879015025	0.997392403100351	3.1879322486773e-105	0.007635705359824929
Belgium	0.9999999999999999	14.260000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
Bosnia and Herzegovina	0.9985123213746398	0.0241470722448813	0.9999735460000000	3.7075086664545e-134	0.003923859050604219
Bulgaria	0.9921120201850051	1.7068017399220508	0.99600493121616801	1.490733748405847e-97	0.008952895050604219
Camereroon	0.9852622530803703	3.092372649311187	0.9994294517728836	5.72875895839108e-85	0.01277597017922803
Canada	0.997137485080179	19.279421467237927	0.99858075531822	8.618268495809566e-118	0.0055623278849937
Chile	0.9981993708925772	3.584827211976444	0.99910128268692579	9.14924981248332e-127	0.004437615961903678
China	0.9957664828669464	2.196894593350586e-109	0.997879183375606	0.006954459916037968	0.0000000000000000
Colombia	0.9950000000000000	1.0000000000000000	1.0000000000000000	1.0000000000000000	0.0000000000000000
Cote d'Ivoire	0.9816302724821463	0.503144668380397	0.9980324345701685	6.11778490717809e-131	0.0000000000000000
Croatia	0.997788841116816	0.98281784792405636	0.9988676964776355	6.35533057847526e-122	0.008981767237213625
Cuba	0.9992197233992826	0.161386341621962	0.9995973401584958	1.377136347228296e-142	0.002973437598212299
Czechia	0.9987275611089109	2.1583026377820175	0.9993645532017001	1.4169630923664561e-133	0.003734171559157214
Dominican Republic	0.99731605954632	2.48662733164496	0.9986570347018986	8.55747117319516e-119	0.0054273895046052
Ecuador	0.998472340527623	12.466872340527623	0.9996613403463609	1.0000000000000000	0.0000000000000000
Egypt	0.99352060036833114	0.29100000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
El Salvador	0.998207001779842	1.5629985635987578	0.999082090991669	6.11034207079063e-126	0.004466566782069509
France	0.9955608535050894	1.4281226753072	0.9977771717838815	5.2736293364301186e-109	0.006969257234988753
Germany	0.998994759892935	40.56769834715669	0.999448153472097918	2.3206681598570346e-136	0.003408200390709303
Ghana	0.9896445440048843	5.1537847032119646	0.9947585635192601	5.0258303299017282372	0.010635938703283267
Greece	0.9988219890566043	0.727194474493288	0.999419363373837	2.3455806967860936e-135	0.003569564333979663
Hungary	0.9999999999999999	0.0000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
Iceland	0.999838844130445	0.4448671761732650	0.99987618719477	3.112185481567678e-105	0.0016593440929127
India	0.99896820416717182	3.678375153182301	0.9994810961349379	1.41135417528027e-137	0.0033748803895578
Indonesia	0.9992005317128877	0.9799489528157487	0.9996136036976019	2.110751114880186e-143	0.002912658689330942
Iran	0.594130512074029	2892.4255564678624	0.9842892619802046	3.896817943755707e-47	0.020846582497467523
Ireland	0.9979217403749181	5.590969719160804	0.9989653659184831	6.040938749228526e-124	0.0047637656843974
Israel	0.996823525559001	9.704257299293549	0.9984116424534841	7.71794755306894e-115	0.00588697417097528
Italy	0.9995841747373665	2.3559214721501515	0.99972209041277	3.35517112559284e-110	0.006740439148638092
Japan	0.9955814747373665	0.3559214721501515	0.99972209041277	3.35517112559284e-110	0.006740439148638092
Kazakhstan	0.9969932382046304	0.8822338648433056	0.998841706111176	2.76449493279176186	0.003675952329176186
Korea, South	0.9886304601211137	60.7398981024715	0.9942950932325275	1.29740340396276e-99	0.011173715961537337
Kuwait	0.9964895164728966	1.252890712919479	0.99825843967487403	1.16540658475036146e-113	0.006173450025424911
Lithuania	0.99469126485317148	1.5035797103706436	0.9971384994157058	1.3639635612552026e-105	0.007615095142546346
Luxembourg	0.995230213101084	2.5482738317050763	0.9983124693812146	1.0000000000000000	0.00311283072872418
Macao	0.9883469130538	0.3894693816997673	0.9991695893816997	3.2991695893816997	0.0000000000000000
Macedonia	0.9966561709719505	4.2074573153846302	0.9983138485370644	1.3613013566105365114	0.008204285146101478
Moldova	0.9991252015600354	0.305704819184115	0.9995085376661164	1.3613013566105365114	0.008204285146101478
Morocco	0.9972894707161454	0.9985474905669593	0.99986529639631129	2.144063236638228e-118	0.005474817443912533
Netherlands	0.9982095763052664	1.1347877295262438	0.9991012019270973	1.0000000000000000	0.0004440028869562
New Zealand	0.9922691629116855	0.3644193984580593	0.9996150212926767	2.17973403244536e-143	0.002920842623495637
North Macedonia	0.9999999999999999	0.0000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
Norway	0.998863383828028	2.4784603492744	0.99984416846298	1.14702793730545e-135	0.003541832594993882
Oman	0.9983685675658916	0.189233493747078	0.9994005862077165	9.97688344477362e-135	0.003627000388740247
Pakistan	0.9958822836777983	6.536175362362832	0.9997295749509736	2.37835381571974e-110	0.006741880336308033
Panama	0.9983671894875525	1.3433647343086982	0.9991991795953933	8.9418142220863e-129	0.00421546579887372036
Philippines	0.995864089952395	5.410719957651982	0.99979478731773934	2.0135108518012401110	0.00669832180428351
Poland	0.997637353755755	2.32371179646576	0.99938338238953	4.7478839975366e-108	0.00635853462638086
Portugal	0.9970000000000000	2.223051373573	0.9999999999999999	3.3798000000000000	0.0000000000000000
Qatar	0.997240756287373	2.654124940847464	0.9986212956319597	2.8123575864056e-118	0.003948794704046531
Romania	0.998647023362842	2.294792878074731	0.9993231544583557	5.70472400990376e-132	0.003853617944369443
Russia	0.999761353487302	1.3291990323159553	0.9998803096357357	1.634748167105756e-166	0.001629487462710676
Serbia	0.99836953221919997	1.661860865560121	0.9991625574936069	4.0236833356458867e-128	0.004285407420402401
Slovakia	0.99612138650958564	0.9193607437358785	0.9980845167237345	1.782872897503879e-112	0.006474277125208208
Slovenia	0.9982000000000000	0.0000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
South Africa	0.987205105735253	11.92637305856095	0.9991785358308692	6.69057715160776e-82	0.01329771711953346
Spain	0.9975634535453022	118.30566181345057	0.998781180920201	1.041893461530452e-120	0.005167807314880985
Sweden	0.9991847481743767	2.447768376078784	0.999598622006878	1.19176619884461e-142	0.002966146595013294
Switzerland	0.9983043667015605	1.3075935428459161	0.9991517247937535	2.7844074883075e-128	0.004316126125483525
Thailand	0.9986681731163036	0.9654316329377077	0.999325972342886	2.0849035165462e-141	0.003849512956585959
Turkey	0.999118053604628	12.97518716326246	0.999530339530397	3.0999100000000000	0.0000000000000000
U.S.	0.9999999999999999	0.0000000000000000	0.9999999999999999	1.0000000000000000	0.0000000000000000
Ukraine	0.9988812473014433	0.920384153594252	0.9994502572159479	1.950524422706726e-136	0.0034734978472274
United Arab Emirates	0.99988116933983542	1.2040624042314844	0.9994339430046475	7.64845975275952136	0.0035261430629231045
United Kingdom	0.9992680922572704	16.550517343930957	0.99963449164028	1.6845612023079339e-144	0.0028329854312663518
Uzbekistan	0.9980877546365788	0.520435366455643901	0.999011151480726	7.711581963687051e-126	0.00465633990047605

5.7 Logistica Semplice - Casi minimi 2000

country	slope	intercept	r value	p value	std err
Algeria	0.9963412910263574	1.884434866174729	0.9981849966456143	7.584976479058548e-113	0.006301358051918838
Argentina	0.995774731359276	2.028740574007044	0.9971452793977	4.4799551705346e-110	0.00370370738997569
Austria	0.9988682876104681	0.29872312673357	0.999342579815518	9.663955917885516e-133	0.003139705733997569
Austria	0.9988682876104681	5.530134650560283	0.9993425798139425	6.57358998046746e-96	0.009611599714852061
Bahrain	0.99156315285757	3.40006550980926	0.995719881394942	4.57538998046746e-96	0.009611599714852061
Belarus	0.994671128793917	3.9360369879015025	0.9973294023100351	3.18793248857733e-105	0.007635707389524929
Belgium	0.9982498530969346	14.26661631487147	0.9991241465027664	3.09426604280109e-127	0.004382629124074903
Canada	0.9971734850808179	19.27942126773297	0.998587055351822	8.618289548090586e-118	0.005562732848894375
Chile	0.98199370892577	3.538027219761503	0.999391842652579	9.14998484805184e-107	0.005944599160379566
China	0.9955608535050894	2.5003286051515159	0.999774837537506	0.005944599160379566	
Colombia	0.99755402317827007	1.7989984523416707	0.9987685315918207	0.00519439456847372	
Czechia	0.998271889511089109	2.1583026377820715	0.9993645532107001	1.41966203296456451e-133	0.00733417559157214
Dominican Republic	0.9971316505954632	2.248623736144964	0.9986570341208986	8.55747113719515e-119	0.005423723895046052
Ecuador	0.99327930053114	12.466872340257623	0.99663791532036609	0.00856038614690738	
Egypt	0.9995392205502271	0.29300735155561597	0.9997553283729923	1.9784084433452056e-152	0.00282278740816265
Finland	0.9982498530969346	1.362027219761503	0.999391842652579	2.10283272340257623	
France	0.9955608535050894	1.428127262753072	0.999774837537506	7.523693236420108e-109	0.005944599160379566
Germany	0.998894570982935	40.567698347151669	0.9994481532709718	3.206681759857034e-136	0.003480200390703903
Greece	0.9988218890556043	0.7271294474493288	0.9994193633783871	3.245869667860938e-135	0.0035696345339796963
Hungary	0.9980797162429954	0.6534378352409931	0.9990321823622508	2.9008505871544664e-125	0.004606504267646357
India	0.9989680241671182	0.9170961947144964	0.9994193633783871	1.411354197289226e-137	0.003748803898259786
Indonesia	0.9982498530969346	0.9170961947144964	0.9994193633783871	2.10283272340257623	
Iceland	0.99421520130742839	0.992428564768324	0.9989289283680246	3.8860179437755707e-37	0.00305282489763752
Israel	0.99682353558559001	5.599699792116084	0.99896599183481	6.0409387492285e-124	0.004762376566823974
Italy	0.9976089449368899	9.704257292903549	0.9984114624543841	1.77194755306894e-115	0.00586974170975728
Japan	0.995851674373665	12.02426471473882	0.998084140628655	4.3774402959919681e-121	0.00511894628581393
Kazakhstan	0.996993240264036	1.359549749058133	0.9984817406111176	2.26449944520596e-116	0.00576573291761186
Korea, South	0.99946711230104113	60.727129447449328	0.9991625574936069	3.09426604280109e-109	0.005944599160379566
Kuwait	0.9964895416728966	1.2573808071291497	0.99892582492674803	1.1634063847503614e-113	0.006133450025474911
Luxembourg	0.99740712311041113	2.548928735850268	0.998712093812461	1.2657169021427562e-119	0.0053112111907287243
Malaysia	0.9983469659533536	2.321301801089703	0.9991698453220421	2.70380360503756e-128	0.004267031462869749
Mexico	0.9966560179751905	4.20475135486302	0.99833118485370644	1.636191585661053656e-114	0.006042285146104178
Moldova	0.9991252015060354	0.305089719184115	0.9995085597661549	1.189490833683256e-138	0.00328480571785914
Morocco	0.99724057161454	1.359549749058133	0.9984817406111176	2.14409083366132826e-118	0.00574039148638092
Netherlands	0.999309222199997	1.359549749058133	0.9984817406111176	0.00445944520596e-116	0.00574039148638092
Norway	0.998868338388028	2.437486603492744	0.99901010131307023	1.14782057130545e-126	0.00354184325994382
Pakistan	0.995822836777983	6.536157363263283	0.9979257499707036	3.278335081517974e-110	0.006734561981080633
Panama	0.998367183475525	1.3436347033486982	0.9991897979558393	8.941814422202863e-129	0.004215465773721036
Philippines	0.9987637355879269	2.2337170109646576	0.9993900288239853	2.207478839447536e-134	0.00365893463938806
Portugal	0.99724057161454	9.534748376173	0.9984114624543841	2.10283272340257623	
Qatar	0.99724057161454	2.6541242904847464	0.998621429956357	2.41235756840663e-118	0.004579740452373
Romania	0.9986446622362842	2.29472982870431	0.9993321545385557	2.507424009993076e-132	0.00385367193443649
Russia	0.997715347483702	1.3291990323159553	0.9998800379635737	1.6347487170556e-166	0.016234978462710676
Serbia	0.998369532219997	1.661868065506121	0.9991625574936069	4.023683356458867e-128	0.00424854072040204
South Africa	0.998271889511089105	11.92620075365025	0.9991281530836057	6.69057373160773e-82	0.0136927119530246
Spain	0.997564534530522	118.30561361343657	0.998781120890720	1.0414881364430524e-120	0.005167807003748805
Sweden	0.9982498530969346	1.359549749058133	0.9984817406111176	1.11207693167693e-122	0.00424854072040204
Switzerland	0.9980404761015605	13.0759352428459151	0.9991515724797753	7.27844074883075e-128	0.004313612543852575
Thailand	0.9986678311663036	0.9654316632937707	0.9993258772432886	2.0867875126904144e-132	0.003845917265585350
Turkey	0.9991180853606428	12.97581765326246	0.99955591834950519	8.49003687731362e-141	0.003110981783427592
US	0.9983063232057872	238.36507593397982	0.99981899755307407	8.35110814700095e-129	0.00421505732402988
Ukraine	0.9988812473014433	0.9209384153954252	0.9994502572159479	1.9505244297078207e-136	0.003473497978422729
United Arab Emirates	0.9988916993983542	1.2040624043213484	0.9994334930046475	7.648459792755921e-136	0.0035261430629231405
United Kingdom	0.9992680922252704	16.550157343990577	0.9996344991164028	1.68456723087939e-144	0.0028329854312663318

5.8 Logistica Semplice - Casi minimi 5000

country	slope	intercept	r value	p value	std err
Australia	0.999527570438257	0.9997933753455718	9.05759573730346e-156	0.0021303952739975007	
Austria	0.998682876104681	5.530134650560283	0.99942579813825	6.663955912885516e-133	0.0037980404015486717
Belarus	0.994671128793917	3.396369879015025	0.999329042100351	3.18793248857336e-105	0.00763570735524929
Belgium	0.998369532219997	0.9991515724797753	0.999774837537506	1.020283272340257623	
Canada	0.9971734850808179	19.27942126773297	0.998587055351822	8.618289548090586e-118	0.005562732848894375
Chile	0.98199370892577	3.584827219761503	0.999774837537506	0.005944599160379566	
China	0.9955608535050894	1.428127262753072	0.999774837537506	0.005944599160379566	
Colombia	0.99755402317827007	1.7989984523416707	0.9987685315918207	0.00519439456847372	
Czechia	0.998271889511089109	2.1583026377820715	0.9993645532107001	1.41966203296456451e-133	0.00733417559157214
Dominican Republic	0.9971316505954632	2.248623736144964	0.9986570341208986	0.005423723895046052	
Ecuador	0.99327930053114	12.466872340257623	0.99663791532036609	0.00856038614690738	
France	0.998868338388028	2.437486603492744	0.99901010131307023	1.14782057130545e-126	0.00354184325994382
Germany	0.998894570982935	40.567698347151669	0.9994481532709718	3.278335081517974e-110	0.006734561981080633
India	0.9988218890556043	0.7271294474493288	0.9994193633783871	2.03581087240101e-110	0.006698321804282351
Indonesia	0.9982498530969346	0.9170961947144964	0.9994193633783871	2.10283272340257623	
Iran	0.9941305172040229	0.984720447449328	0.9989182892815092	0.006998182892815092	
Ireland	0.99792140749181	5.530969792116084	0.99865799183481	0.00409387492285286	
Israel	0.9982498530969346	1.428127262753072	0.998904140628655	0.00574039148638092	
Italy	0.9976089449368899	2.447486603492744	0.9989814520596384	0.005944599160379566	
Japan	0.995851674373665	1.359549749058133	0.9984817406111176	2.10283272340257623	
Korea, South	0.9988630401211137	60.727129447449328	0.9994481532709718	3.09426604280109e-109	0.005944599160379566
Kuwait	0.9964895416728966	1.2573808071291497	0.99892582492674803	1.1634063847503614e-113	0.006133450025474911
Luxembourg	0.9974071231104113	2.548928735850268	0.998712093812461	1.2657169021427562e-119	0.0053112111907287243
Malaysia	0.9983469659533536	2.321301801089703	0.9991698453220421	2.70380360503756e-128	0.004267031462869749
Mexico	0.9966560179751905	4.20475135486302	0.99833118485370644	1.0414881364430524e-120	0.005167807003748805
Netherlands	0.9982056713056264	13.1378717922562438	0.9999300288239853	1.01244818816122026e-126	0.0044402818896464
Norway	0.9982498530969346	1.359549749058133	0.9984817406111176	2.10283272340257623	
Pakistan	0.995822836777983	6.536157363263283	0.99757499507036	0.00574561981080633	
Panama	0.998367183475525	1.3436347033486982	0.9991897979558393	8.941814422202863e-129	0.004215465773721036
Philippines	0.9958648099523995	5.4107956519282	0.997487173773934	2.03581087240101e-110	0.006698321804282351
Poland	0.99872512512973	9.514948980823224	0.9989254460216621	3.37913357990356e-123	0.004851761039213
Portugal	0.99724057161454	2.2337170109646576	0.9993900288239853	2.207478839447536e-134	0.00365893463938806
Qatar	0.99724057161454	2.447486603492744	0.998981		

5.9 Logistica Semplice - Casi minimi 10000

country	slope	intercept	r value	p value	std err
Austria	0.9988882867014681	5.530134650560285	0.999342579813825	6.6639559912885516e-133	0.00379804011548617
Belgium	0.998249530969346	14.2686116314807147	0.9991241465027664	3.093426064280109e-127	0.00438262912407490
Canada	0.995766482866946	3.5848272119767444	0.9997781183375606	6.19689458330558e-118	0.0056072348891657
Chile	0.9981993708925772	3.5848272119767444	0.9997781183375606	9.714924981848332e-127	0.0043796516913681
China	0.9955766482866946	290.0328692606199	0.9997781183375606	6.19689458330558e-109	0.006954459916037968
Ecuador	0.9932793060833114	12.466872340257623	0.9966375134036609	1.1202832770347384e-100	0.008560386146907338
France	0.9955608535050894	142.812262753072	0.997777117858175	7.523693236430118e-109	0.006969257234988753
Germany	0.9988974570987935	40.56769834715669	0.9994481532709718	2.3206681750857034e-136	0.00348020039610393
India	0.9988882867014681	2.75863751583011	0.9997781183375606	1.1013519728094919	0.00438262912407490
Iran	0.9941305120744029	2.98422867618244	0.94828982780246	3.8991371945775707e-47	0.030847849764752
Ireland	0.9979271430749181	5.590969792116084	0.998965365918434	6.04093874922852e-124	0.00476237656843974
Israel	0.9968235325559001	9.7042572792903549	0.9984114624543841	1.7719475306894e-115	0.005896974170975278
Italy	0.9976089449368899	122.0242671473882	0.9980841409628655	4.377440295919681e-121	0.005118991628581393
Japan	0.9958541674373665	8.355912427150315	0.9979220219004127	3.5571112529598848e-110	0.006740439148638092
Korea, South	0.9886304601211137	60.73989981024715	0.9942956932325575	2.974301430962679e-90	0.01111751965137337
Latvia	0.9988882867014681	4.982441801562302	0.9997781183375606	1.1013519728094919	0.00438262912407490
Netherlands	0.9982095673057664	13.137877922562438	0.9991010179197023	1.012444180152202e-126	0.00440028188962564
Pakistan	0.9958822836777983	6.536175363263283	0.99792574995097036	3.278335801571974e-110	0.006734561981080633
Poland	0.9987637355879269	2.2337171019646576	0.9993900288239853	2.207478839447536e-134	0.003658562463938806
Portugal	0.9978522551231973	9.514948590283224	0.9989254460216621	3.379193357990935e-123	0.004853163104039213
Romania	0.998647042362842	2.294279828707431	0.9993231454835557	2.50742400999030766e-132	0.003936701594434697
Russia	0.9988974570987935	13.075935428459161	0.9997781183375606	1.63474876134756e-166	0.0043748624705037678
Spain	0.9975645345530522	13.30566181345057	0.999781183375606	1.0448907447050376e-120	0.004167870087448809
Sweden	0.9991384874183767	2.447768376078784	0.9995986272006878	1.1911676619884481e-142	0.0029686124950031794
Switzerland	0.9983043667015605	13.075935428459161	0.9995151724797353	7.278440748883075e-128	0.004313612543852575
Turkey	0.9991180853604628	12.975781765326246	0.9995591554930519	8.490036877371362e-141	0.0031109817834127592
US	0.9983806332507872	238.36507593397982	0.9991899755307047	8.85311081470095e-129	0.00421505732402988
United Kingdom	0.9992680922252704	16.550157343990577	0.999634491164028	1.684567230879339e-144	0.0028329854312663318

5.10 Logistica Semplice - Casi minimi 20000

country	slope	intercept	r value	p value	std err
Belgium	0.998249530969346	14.2686116314807147	0.9991241465027664	3.093426064280109e-127	0.00438262912407490
Canada	0.995766482866946	290.0328692606199	0.9997781183375606	6.19689458330558e-118	0.006954459916037968
China	0.9955766482866946	3.5848272119767444	0.9997781183375606	6.19689458330558e-109	0.006954459916037968
France	0.9955608535050894	142.812262753072	0.997777117858175	7.523693236430118e-109	0.006969257234988753
Germany	0.9988974570987935	40.56769834715669	0.9994481532709718	2.3206681750857034e-136	0.00348020039610393
India	0.998968024677182	2.75863751583011	0.9994810961949719	1.411354197258022e-137	0.003748823898259786
Iran	0.9941305120744029	2.98422867618244	0.94828982780246	3.8991371945775707e-47	0.030847849764752
Ireland	0.9982095673057664	13.137877922562438	0.9991010179197023	1.012444180152202e-126	0.00440028188962564
Netherlands	0.9982095673057664	9.514948590283224	0.9889254460216621	3.379193357990935e-123	0.004853163104039213
Portugal	0.9978522551231973	1.3291990323159553	0.9998800379635737	1.634748761705756e-166	0.016234978462710676
Russia	0.9997615347483702	118.075935428459161	0.9991515724797353	1.0414899364430524e-120	0.0051678706037488085
Spain	0.9975645345530522	13.075935428459161	0.9995591554930519	7.278440748883075e-128	0.004313612543852575
Turkey	0.9991180853604628	12.975781765326246	0.9991899755307047	8.490036877371362e-141	0.0031109817834127592
US	0.9983806332507872	238.36507593397982	0.9991899755307047	8.85311081470095e-129	0.00421505732402988
United Kingdom	0.9992680922252704	16.550157343990577	0.999634491164028	1.684567230879339e-144	0.0028329854312663318

6 Interpolazione su Logistica Doppia

6.1 Grafici



Interpolazione fallita su Brazil
Interpolazione fallita su Cabo Verde
Interpolazione fallita su Estonia
Interpolazione fallita su Malta

6.2 Tabelle

6.3 Logistica Doppia - Casi minimi 0

country	slope	intercept	r_value	p_value	std_err
Afghanistan	0.99925090281408428	0.0775080989000137	0.999568864624223	3.0814830256681e-141	0.003076939066692631
Angola	0.9995409398939234	0.205407289111282	0.9997659136015657	1.266172379753056e-153	0.002367487689806694
Andorra	0.99984242222191	-0.09394235812607121	0.997833253834762	7.84605550565846e-155	0.0021825098392264
Angola	0.9906740873696355	0.06813495749591869	0.994446229203041	1.6263168191171196e-87	0.01194985251026484
Antigua and Barbuda	0.998288282882682	-0.08738738738738674	0.996470878523002	1.098151290336816e-99	0.00815267042316016
Argentina	0.995774731352626	2.618824202402474	0.9979179145277495	4.4799833205212e-142	0.006757483838345097
Armenia	0.9993202303635	0.0602330230363237	0.9997659136015657	1.32423305283200e-143	0.002367487689806694
Australia	0.9998921740044258	0.16211602998896524	0.999417137291488	8.9294089260751e-181	0.001131747624661736
Austria	0.999883276580504	0.4536708778389315	0.9993681725650468	3.517183930798427e-179	0.001178364337052894
Azerbaijan	0.9996246359680375	0.12474793764604234	0.9998399154828075	8.21243483973499e-161	0.001875245123181182
Bahamas	0.99823205635062902	0.02021898946426287	0.9996948447322808	6.1808910808055e-124	0.0047654939432832813
Bahrain	0.999774731352626	0.090974731352626	0.9997659136015657	2.20302305283200e-143	0.002367487689806694
Barbados	0.99538427302462503	0.33838538423803695	0.998736435408987	5.35580864090995e-130	0.00525034980336268
Belarus	0.997181295755669	1.1902371894721832	0.9998344025646348	4.061901422483748e-123	0.004834873387647752
Belgium	0.9998061150573309	1.5448750266509506	0.9990023410878574	1.409478023116087e-170	0.0014648651044472783
Belize	1.00485750615737685	-0.0373329828052038	0.997117488972481	1.024284897375617e-103	0.008015395273846693
Benin	0.9980562494538183	0.997142562752326	0.9986465325624825	8.86846466401874e-104	0.00263035078110308
Bolivia	0.9993202303635	0.151897471349	0.9997659136015657	1.3034542980552e-143	0.004834873387647752
Bosnia and Herzegovina	0.9996206670607293	0.05359868892811242	0.9982490082042749	5.09612305283200e-159	0.019613509326927097
Botswana	0.9877947711001601	0.05917097520703285	0.993165813817336	1.0755312607930521e-86	0.01216856453725664
Brunei	0.9980878791574475	0.270959835358623657	0.9969719585461593	4.21664836384737255e-147	0.0026492538487851213
Bulgaria	0.9921679200554373	1.694875755252668	0.9960722790708208	1.301118246166996e-97	0.0092455355555955607
Burkina Faso	0.999774731352626	0.090974731352626	0.9997659136015657	1.2029302305283200e-143	0.002367487689806694
Burundi	0.983017854754603	0.0347388911262328	0.9851829089114557	1.735090685251162e-76	0.015751577894445215
Cambodia	0.997290225174733	0.1592190155948855	0.99895856428521	8.04874680795212e-124	0.004774308791407011
Cameroon	0.9971689290729796	0.627932945571201	0.998646530521709	4.87242883227308e-118	0.00552788112073813
Canada	0.9997658308659454	1.6196442496275267	0.9998527586324825	2.159071979464057e-167	0.0015877787427477044
Central African Republic	0.99945957472661	0.062699483835362	0.9997659136015657	7.6383648494047e-75	0.00222471317413357
Chad	0.9948711150371	0.04947482803523	0.9998648447322808	5.0960874226788688e-85	0.004834873387647752
Chile	0.998112358620898	0.3426737180574517	0.9990737553934491	7.185334673483116e-171	0.014540747853652269
Colombia	0.99945279774874	0.70867111557805	0.9959179483791365	4.94637747268842e-139	0.0092455355555955607
Congo (Brazzaville)	0.988910179235444	0.1420869909159164	0.9970407791017953	1.620245656462356e-89	0.001342782157306957
Congo (Kinshasa)	0.99945279774874	0.090974731352626	0.9997659136015657	6.2029302305283200e-143	0.002367487689806694
Cote d'Ivoire	0.996857890194936	0.0989365052099986	0.99511063999731	9.329684953366652e-117	0.005708881257127147
Croatia	0.99988453887938247	-0.01088028661981628	0.9990052371845871	3.582795416586576e-171	0.001443091325831106
Cuba	0.99963018687467653	-0.04227663909816636	0.99805986211730862	3.08608061744347e-154	0.002217952895682677
Cyprus	0.9992441498432816	0.2388009863582283	0.9996927546166659	6.248832267868746e-148	0.002597221631490588
Czech Republic	0.99945279774874	0.090974731352626	0.9997659136015657	4.032247131247133e-143	0.002367487689806694
Diamond Princess	0.9994485521022329	0.4374643140375166	0.9948359052962673	1.141667793545906e-137	0.03368635555461132
Djibouti	0.995813490864603	0.101932949108163	0.9993032409498238	5.050088681353986e-132	0.00383146942878993
Dominica	0.1001345741119584	0.06193211370125	0.9916649354021570	3.9183531516388597e-153	0.002271641757501657
Dominican Republic	0.9995420030887281	0.4052818398512705	0.9976507141862876	6.024284897375617e-147	0.002367487689806694
Egypt	0.999774731352626	0.1584471345275167	0.9997659136015657	3.1073245913522862e-143	0.002367487689806694
El Salvador	0.998740909887417	0.099240700458617	0.9990521708070862	2.9231878740461656	0.00208389045926423
Eritrea	0.996407938577375	-0.0208806271091653	0.99820950612404947	4.034688899769366e-123	0.004856382940590189
Ethiopia	0.9976641361391748	0.0709678162574509	0.9940736172517178	5.4797842283766e-136	0.003530417483596507
Fiji	0.99172333698365636	0.04501376194721818	0.99339576175561705	1.3311240931912816e-84	0.00128911797363542
Finland	0.9996912016201974	0.07468137517557	0.9997659136015657	4.03671751240587e-143	0.002367487689806694
France	0.9993452352191482	0.338527630477446	0.9949637304498238	2.845034469285112e-137	0.003400933026365183
Gabon	0.9927359390266274	0.13026340218434148	0.9966302184346675	1.5005088681353986e-132	0.00383146942878993
Gambia	0.954833826302816	0.084921979357847	0.971646493712671	8.39123215057054e-65	0.020757407407413037
Georgia	0.999300616093459	0.0493938808224334	0.999893725493300	1.26155321553389e-141	0.002367487689806694
Germany	0.999774731352626	0.1584471345275167	0.9997659136015657	3.1244115332282868e-138	0.0032880084937003634
Greece	0.99937363467879899	0.074911789551044027	0.997049552081501	3.078000178051103e-103	0.003024090844994499
Ghana	0.9993204072005861	0.82911789551044027	0.9997659136015657	2.9518000178051103e-103	0.003024090844994499
Greece	0.99937363467879899	0.074911789551044027	0.99966777987267879	1.91390667779872698e-164	0.002710154689242874
Grenada	0.9993062648110842	0.01567818754025428	0.9981996605921742	5.24427824105587e-113	0.00625499491964726
Guatemala	0.99610468260201924	0.04501376194721818	0.9997659136015657	2.6146313985287525e-112	0.006387161733700432
Guinea	0.99969153957557	0.07468137517557	0.9997659136015657	2.039395735212401e-147	0.002715312478770597
Guinea-Bissau	0.9994933873333339	0.05136483751625165	0.9997659136015657	9.31353067413921e-143	0.002367487689806694
Guyana	0.988841643964129	0.140972948545804	0.9996302374882088	2.12558111730283e-166	0.012742618958905608
Haiti	0.9943630615330344	1.1318752278126218	0.997689705938763	4.547946105688665e-108	0.001577091331730308
Honduras	0.999774731352626	0.09195216763941504	0.997440577450521701	6.031753686134939e-117	0.002367487689806694
Hong Kong	0.999774731352626	0.090974731352626	0.9997659136015657	2.039395735212401e-143	0.002367487689806694
Iceland	0.99937363467879899	0.0568821943278037	0.99986677987267879	2.12550052863200e-143	0.002367487689806694
India	0.99980915129525505	0.9995816445377555	0.999444621426124008	1.23399794259312816e-131	0.001848733129202767
Indonesia	0.9998812790519816	0.124211551557805	0.99939572512095917	2.039395735212401e-179	0.001176131271249587
Iran	0.99929950955775844	1.614051551557805	0.9996940646241936	5.5137519334041345e-145	0.0027744227464893795
Ireland	0.999774731352626	0.090974731352626	0.9997659136015657	1.2029302305283200e-143	0.002367487689806694
Israel	0.9995091727705692	1.010924402804121	0.999513682741901561	1.49176382741901561e-143	0.00174983625133854521
Italy	0.9993936544544883	3.343810422304424	0.9996744455445612	2.76403250283816e-192	0.000845827067625513
Malta	0.999857415459755	0.06067404223044806	0.9997659136015657	1.3244115332282868e-138	0.0032880084937003634
Macedonia	0.999774731352626	0.090974731352626	0.9997659136015657	1.23299530477357e-143	0.002367487689806694
Madagascar	0.9997235488214	0.137031765562482754	0.9991715972642962	1.2659639739462893e-128	0.0042562674928822375
Malawi	0.989131762248489	0.042952722428489	0.9997689705915902	2.1840477377695793e-170	0.0014683397212446564
Malaysia	0.99979173629553557	0.372324042856917	0.99990018259343154	1.709672395420266e-155	0.0014683397212446564
Maldives	0.999774731352626	0.090974731352626	0.9997659136015657	1.22299530477357e-143	0.002367487689806694
Mali	0.99965932695276924	0.2598961735012727	0.9998165934158774	2.12409530477357e-143	0.0013427821571510509
Mauritania	0.9988661917262936	-0.0279792301722331	0.9998165934158774	2.381260516368804e-118	0.00246396236939123276
Mauritius	0.999131051830744	0.0136380420373388	0.9999220723018092	2.75103028134738e-184	0.0013553565389876
New Zealand	0.999774731352626	0.2504058937857687517	0.999928573993683	7.747378440254552e-177	0.001250209923316272
Nicaragua	0.9984427409274489	0.0134726052271048826	0.9999122337203124	1.02212412090742368522	0.0011900900063728786
Poland	0.9998519389666966	0.22216409274058826	0.999927980843544	1.0994127948734738e-169	0.002186346854853424e-153
Portugal	0.999631275854368	1.614567067220604	0.99961965192620604	1.1232995303	

6.4 Logistica Doppia - Casi minimi 100

country	slope	intercept	r value	p value	std err
Afghanistan	0.39927300231466428	0.27705080690800137	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Albania	0.9999856462423	0.27705080690800137	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Algeria	0.999944693989524	0.2953407389111283	0.9997659316091567	2.636172279750576e-153	0.005267487698906594
Andorra	0.999984242227191	-0.0939425182610721	0.9998733325834762	7.846055055655846e-155	0.00218250296392764
Argentina	0.995774313587626	2.618744240240744	0.9979114527936777	4.47969987503402e-110	0.006757037834906762
Armenia	0.9994384573405063	0.10405531169931237	0.9996157094745495	1.3295823050281208e-143	0.002895801398450197
Australia	0.999892174004258	0.162160299896524	0.9999417137291488	8.92904982060751e-181	0.0011317476246646e-136
Austria	0.9999856462423	0.27705080690800137	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Azerbaijan	0.999924635989524	0.1242370728911283	0.9998389152548404	5.511020780750576e-179	0.000765896896662631
Bahrain	0.9977892198251798	1.0997284659777398	0.9986300820201798	2.112078410047166e-118	0.00547783916644700
Belarus	0.997816297556868	1.9023718947241832	0.998933402566438	2.4061901422483748e-123	0.00483473587647752
Belgium	0.99980611150573309	1.5448750266059506	0.9999023410878574	1.4094780131160871e-170	0.0014648658104447283
Bolivia	0.9980179454926186	1.159991141726929	0.9989386833046485	1.9230954229393705e-123	0.00482393066871887
Bosnia and Herzegovina	0.9999682086007293	0.159991141726929	0.99998249008204249	0.001013509326927097	0.000765896896662631
Brunei	0.9999856462423	0.574475	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Bulgaria	0.999921578203073	1.6848420823253467	0.9998389152548404	5.511020780750576e-179	0.000765896896662631
Burkina Faso	0.999185761057628	0.2112032422271936	0.9997812167045964	1.220862003605483e-154	0.00219167731925239
Cambodia	0.99972902285147331	0.15921041594885565	0.999858856428521	8.034847680975215e-124	0.00474308791407011
Cameroon	0.9971689290729976	0.62792342955571201	0.9986046550217099	4.8742280832737308e-118	0.0055278182073813
Canada	0.9997658308659454	1.16196442496725267	0.9998852586324825	2.1590719794640577e-167	0.0015877878274727044
Chile	0.9998635862495628	0.2500728817780817	0.999937753399301	1.189571340364741e-171	0.0059443591607556
China	0.9997658308659454	0.352322892950139	0.9999856462423	6.03638954052589e-109	0.0059443591607556
Colombia	0.9990435379728747	0.7086871116578095	0.99995179482793165	4.946397747268824e-139	0.0027529945879816516
Congo (Brazzaville)	0.9889107912354444	1.420860915918964	0.9947079113117953	1.62042465664233e-89	0.011342782157306957
Congo (Kinshasa)	0.9988894245853343	-0.0784577036626262	0.99993293073448664	6.224468508591604e-130	0.004095762311316169
Costa Rica	0.9996866530631013	0.06447315657968034	0.9999838404174966	6.7423664553946e-169	0.0015270911331718308
Cote d'Ivoire	0.9998579890199436	0.2998110639997731	0.9985110639997731	3.927698451366652e-117	0.00057088472577147
Croatia	0.9999856462423	-0.000887082827792	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Cuba	0.999627817747653	0.04121756393995185	0.999776080782822	1.508630861747347e-154	0.00217952805623577
Cyprus	0.999421438432816	0.23880088635828233	0.999697541666395	6.428832286788646e-148	0.00259722136140988
Czechia	0.9996211266257461	0.6211202347583941	0.9998075565605077	4.01258363721671e-157	0.002058773650074280
Diamond Princess	0.9994485521023239	0.43746431403735166	0.999843590552962673	0.003368363555461132	0.00383146942878993
Djibouti	0.998513949086406463	0.10193692491081663	0.99993307430498238	1.500508868153985e-132	0.0038146942878993
Dominican Republic	0.9995420033877281	0.40528191359412705	0.999765014825793	3.114911563880527e-153	0.002271612757751657
Ecuador	0.9999856462423	0.16160299896524	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Egypt	0.999932057502271	0.293007228280997204	0.99995752328277993	1.978408443254505e-152	0.0023182781404616765
El Salvador	0.9987469039887417	0.19369533389639364	0.999641590652828	6.90178349347919e-145	0.000803859045926243
Ethiopia	0.997664163391748	0.0796786125724509	0.9994307236157178	9.547987422832766e-136	0.0035304147834596075
Finland	0.998917841906349	0.921388156862804	0.9994652973625514	5.52624675078407e-137	0.0034257405408895606
France	0.9989464231594982	3.389527630477446	0.9997430736425276	2.8405344496825146e-137	0.003409097026365183
Gabon	0.997235307268674	0.1930685082243134	0.999685258632486	1.323538913591788e-141	0.00303602816093992
Greece	0.99993013961459	0.03493009082243134	0.9997429890052500	1.235338913591788e-141	0.00303602816093992
Germany	0.99988188165268028	7.798929908774792	0.9999376674827921	6.485324575899e-169	0.01527801566449435
Ghana	0.99424807050485617	0.8291177955194027	0.9974945504281501	0.0008240908464694994	0.000765896896662631
Greece	0.99937653634678999	0.2913007228280997204	0.999667195984888	2.182320011603610616e-146	0.0020710546869242784
Guatemala	0.9961064862001924	0.1901347672905942	0.99813447783112	6.2461431985628725e-112	0.006387161773004132
Guinea	0.9989635552958843	0.1901347672905942	0.9993707535995352	9.088164744747469e-134	0.00051574054939979
Honduras	0.9998517153513018	0.02500728817780816	0.9999856462423	1.311870152709399e-139	0.00363684839709399
Hungary	0.998071513513018	0.6359633838280805	0.999930254618598	1.138207692395174e-131	0.003917809595974087
Iceland	0.9998034773087367	0.05688219412672879	0.9998667790018196	1.913900996782298e-164	0.0107108729381484207
India	0.9996805951529052	0.9899081611377655	0.99984424672142008	2.336987954253136e-161	0.01848731129202766
Indonesia	0.999881788165268028	0.1224237886405543	0.99993752951724016e-179	2.039359723124016e-179	0.001171661311124957
Iran	0.99929095695775844	16.140515759769187	0.9996494602464194	5.215732012193184404e-145	0.0027744227446489785
Ireland	0.9999856462423	0.1901347672905942	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Israel	0.999931780309892	1.0295214166412	0.9998389152548401	6.920183054627535e-141	0.0019376745535452
Italy	0.9999344655484883	0.334810922204434	0.999697445561921	2.7640325023841629	0.000848526706725513
Japan	0.9990355645014351	1.961281889074587	0.9995058690205444	1.528710692395174e-138	0.0039343971161275093
Jordan	0.9994288336011311	-0.017832204176144728	0.9995030219702793	1.520197996113423e-139	0.003212284918910922
Kazakhstan	0.9990087139289783	0.394709128308764	0.9996911420281376	1.257307135990961626e-135	0.003526267636755717
Kenya	0.9986378149898079	-0.0008870916150943376	0.99949181774747227	8.0596878389157505e-164	0.000638146942878993
Korea, South	0.9999856462423	0.1901347672905942	0.9999856462423	3.008148072566801e-141	0.000765896896662631
Kosovo	0.9951094720872088	0.4087120862995182	0.999805693423256	1.4323950214447273e-117	0.0051793123783157
Kuwait	0.997817595830826	0.92347413556562	0.999880122483137	4.890563333975756e-121	0.00515210579114563
Kyrgyzstan	0.998842128424582	1.04896044247379	0.999919484239938	4.33424957923556e-155	0.00428921344570209
Latvia	0.9996556567737339	0.00669973495495886	0.99997166556672163	1.31495394779574e-155	0.00213940989703093
Lebanon	0.99915015949576354	0.185690404247379	0.9996562304247379	4.3226595022446574e-144	0.002885036922446574
Liberia	0.99717353974861007	0.00717353974861007	0.9996264304736430	1.391978034747467e-102	0.003212284918910922
Lithuania	0.9999344344744	0.3393227691283573	0.99952979056266401	1.52039877385353e-139	0.00332124728461
Luxembourg	0.9995368352491702	0.3914638955330536	0.9999735194728792	7.7601137031288766e-153	0.0024118734009801587
Madagascar	0.99773235358548212	0.1370316755642754	0.99997105175569242	2.0659639379543682375	0.004262649288662375
Malaysia	0.9997136229355557	0.3723240424856917	0.9999018871722697	1.706732937242309e-170	0.001103539693398976
Maldives	0.9878619062065105	0.214400498132153	0.9996425873666992	1.729616406405106e-99	0.008784041509178
Niger	0.99924315962602	0.2401034981104466	0.99969515626027825	1.816965530371179e-145	0.002764391184425172
North Macedonia	0.99924315962602	0.2401034981104466	0.99969515626027825	1.816965530371179e-145	0.002764391184425172
Norway	0.99930713716940433	1.468127278911074	0.9995653725142053	1.1293856363638248e-145	0.002750130123377817
Oman	0.9995320173749921	-0.0097580110975693	0.9999248499563473	4.093625448868045e-150	0.002460687110474579
Pakistan	0.99888659537555778	1.8045406871104477	0.9995411134466412	1.816872706675959e-136	0.00347085275656914
Paraguay	0.9995272272727	0.1609887082277174	0.9999856462423	1.00428887022727174e-136	0.002156132516460064
Philippines	0.9993194645621597	0.33932262937374	0.999989178871788e-163	4.222300729389356e-139	0.00241187270662373
Poland	0.9998359184896866	0.22216409270458826	0.9999270988043544	4.7234985780510423e-123	0.002586230122650725
Portugal	0.9996331235852468	1.6145670670272064	0.999814924934594514	6.028233328255896e-158	0.0020163406226116573
Qatar	0.99724075602287373	0.265142940847464	0.9998622396531963	2.781325357884602e-118	0.0054987974046531
Romania	0.999730477396369	0.4370493527748235	0.9998672357951996	2.095945333886804e-125	0.0031750938415452
Russia	0.999515215934232	0.248903403155608	0.9999856462423	1.099790234578489e-135	0.00353774015452
San Marino	0.9975097617611921	0.324896463			

6.5 Logistica Doppia - Casi minimi 500

country	slope	intercept	r value	p value	std err
Afghanistan	0.9992590281408428	0.07750808980080137	0.9995688684624223	3.0814830256681e-141	0.003076930894662631
Albania	0.998763504702789	0.2748526595111004	0.99997731300775	1.3180727974576e-142	0.002574397638906563
Algeria	0.9994539944000004	-0.0939425812607121	0.999783325834762	2.04012279715457e-153	0.0021825029532273
Andorra	0.99982412227191	-0.2168744240240744	0.9979114527936777	4.47969887503402e-155	0.006757073294906762
Argentina	0.995774313587626	2.618744240240744	0.99979114527936777	4.47969887503402e-155	0.006757073294906762
Armenia	0.9994384574830563	0.10405531169931237	0.9996175094745495	1.3295823050281208e-143	0.0028985801398450197
Australia	0.999892174004258	0.216102698896524	0.999417137291488	8.92904982060751e-181	0.001131747624661736
Austria	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Azerbaijan	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Bahrain	0.9978291218677798	1.0997846072777398	0.9996300823017988	2.120278416047166e-118	0.005477839166417003
Belarus	0.9978162975556869	1.9023718947241832	0.998933402566438	2.4061901422483748e-123	0.004834737387647752
Belgium	0.99980611150573309	1.5448750266059506	0.9999023410878574	1.4094780131160871e-170	0.014648685104447783
Bolivia	0.9980179454926186	1.599911417726929	0.9989386833046485	1.923095429393705e-123	0.004823930668718188
Bosnia and Herzegovina	0.9996820786007293	0.0539786698282114	0.999824900735216e-149	0.019613509326927097	0.001131747624661736
Bulgaria	0.992167920054373	1.694875575252686	0.9967022790872028	1.301118246166969e-97	0.009245355555559607
Burkina Faso	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Camerun	0.9971689230729576	0.6279329455571201	0.9980646550217099	4.87428083227308e-118	0.005527781182073512
Canada	0.99976583108659454	1.16194424266275267	0.9998852586324825	2.1590719794640577e-167	0.001587778724727044
Chile	0.998111263682098	0.342628627564717	0.999093775394491	7.18954540748316e-171	0.014540745835662769
China	0.995576642866946	293.0328692606199	0.999778178375606	6.196849598350558e-109	0.00694459196037968
Colombia	0.999045355728477	0.078687116578095	0.999537749428787165	4.946397747268842e-139	0.002529945879816516
Cote d'Ivoire	0.998657390139432	0.3585283943605996	0.999811868997731	9.239883451366652e-137	0.0057089275712717
Croatia	0.999882859382747	-0.01880287668196527	0.999902318682845871	3.5872854526858576e-171	0.0014309193225831106
Cuba	0.99963018386747653	-0.0422776639906136	0.999776080738622	3.50860861744347e-154	0.002217952895682677
Cyprus	0.9992441894832816	0.2388486535828233	0.999692759886536395	6.2483822867886746e-148	0.00259721631490588
Czechia	0.9996211366257461	0.6211202347853941	0.999807055650677	4.0125836371671e-157	0.002058736500742807
Diamond Princess	0.99944865510202329	0.4374646314037366	0.999807055650677	1.1416674835949626673	0.0030368636555461132
Egypt	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Dominican Republic	0.9995420033977791	0.4052510139541705	0.9997650714826578	3.11491151638805276e-153	0.002771612757571537
Ecuador	0.9993820319234376	11.4426543531394847	0.996902927219509	2.63467743844474e-102	0.008218422932751063
Egypt	0.9995392205502271	0.2930735528372923	0.9997558328732075	1.978408443345205e-152	0.0023182787404616765
Finland	0.998917841906349	0.921388156862804	0.9994652975625514	5.522646757087406e-137	0.0034257405408895606
France	0.9989464232519482	33.8952763047746	0.99947303742576	2.8450344496825114e-137	0.00340093303205183
Germany	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Ghana	0.99424053043977	0.8291178955134027	0.997100711886511e-103	0.008024030844694992	0.00116021171123897
Greece	0.9993736534678999	0.425362809972004	0.99966777951884888	2.1823200116036106e-146	0.0027010546869247784
Guinea	0.9986935552958473	0.06746131575293646	0.99953707529659532	9.08874784774469e-134	0.003715713074080097
Honduras	0.998918111552284814	0.15249048177554414	0.999507397642671	1.324411532288898e-138	0.0032880084937003634
Hungary	0.99850671135813018	0.6359683838508065	0.9998667799018596	1.318720692959174e-131	0.00391780959574087
Iceland	0.99983043477407363	0.05688219412672879	0.9998667799018596	1.913900996782298e-164	0.001710877938170207
India	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Indonesia	0.99988128545753581	0.1224123788640552	0.9999375759397181	2.093385735212401e-179	0.001716021171123897
Iran	0.99944905757558434	16.140511557461872	0.99946494602464194	2.5137521931844304e-145	0.0027744274648831783
Ireland	0.99944053803999119	1.564800998784449	0.9997210955765303	7.650217972887146e-150	0.0024749780580729792
Israel	0.99963917013098992	1.0295241022046121	0.9998201553916481	1.63765137817229e-158	0.0019876726584521
Italy	0.9993945545484883	3.3438109422204434	0.9999655023841692	2.764032502384136e-192	0.000845827067625513
Japan	0.999335561014031	0.425362809972004	0.9999368125540464	1.5240136288632e-138	0.0010769295845427
Kazakhstan	0.9990036573957783	0.384389128303764	0.999504242388466	5.389765547471e-141	0.0031029211603618452
Korea, South	0.999891783159186	0.5174729645575503	0.9998499692995018	8.586806145619529e-184	0.001045381537211337
Kosovo	0.9956109471220868	0.4087179650639712	0.9980556924232526	1.735198832788845e-111	0.006517931423783167
Kuwait	0.999581759583026	0.924374413556562	0.999881222481317	4.89056333975756e-121	0.005125105791147563
Kyrgyzstan	0.9983422774824582	0.148960846247379	0.9991611948423996	3.3242495793596e-128	0.00428913445470209
Latvia	0.9996955696773739	-0.006690734954958086	0.99997916655672163	0.00213949099898309	0.00116021171123897
Lebanon	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Lithuania	0.9989323447070144	0.3992277128375	0.9995297698841	1.60229872997855e-139	0.00321254712078451
Luxembourg	0.999508642491702	0.39146328564355036	0.9997315162737814	7.26016011718867e-151	0.002411839008801587
Malaysia	0.9997913622935557	0.3723240424856917	0.99909018259343154	1.7906723954249713e-170	0.001468703228688333
Mexico	0.999510742786981	0.6984663799109967	0.9997625582791037	3.04524646622769166e-153	0.00228369254423319
Moldova	0.99949193474967408	0.397181451042899	0.9997817459074053	3.42929884583434255	0.002161632516460064
Morocco	0.999683065673287	0.147206015367684	0.9997817459074053	0.39921534362266e-155	0.00191076923116039
New Zealand	0.9997746970763343	0.75000336916786517	0.99982838575993683	7.747378440530528e-177	0.001150209023315672
Niger	0.999142140190784	0.21328062553888572	0.99970465753534802	2.7980734052386746e-151	0.00238584675845870794
North Macedonia	0.9992493159626022	0.2401035469410466	0.99965569526027825	1.816956530371179e-145	0.002764399184445127
Norway	0.9993073716940433	1.468217282991074	0.999565502374512005	0.002750130123377817	0.0019876726584521
Oman	0.9995320137439921	-0.0097580109705692	0.9997244839956347	4.38264569980045e-150	0.0024650081249507956
Pakistan	0.999883276580504	0.3992277128375	0.9999368125540464	1.50933976554716e-136	0.0019876726584521
Panama	0.99826818518575	0.14363473633486982	0.9998375283533933	8.941024232638632e-139	0.00421365773721036
Philippines	0.9996194626475197	0.49395276952372174	0.9998089571836833	5.750077601947596202e-157	0.00204859729883566
Poland	0.9998591849869666	0.22216409276458826	0.99992275908043544	1.41955833735963745e-176	0.0012586260918657529
Portugal	0.9996331275854368	1.6145676070720604	0.9998149274934954	6.028233922855898e-158	0.0020163406226116573
Qatar	0.9972407560287373	0.265147490847464	0.9986214295631957	2.8123527688406236e-118	0.00549487940446531
Romania	0.99973084390369	0.43746435352888572	0.99986622749354802	1.50933976554716e-154	0.00368622749354802
Russia	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
San Marino	0.9975093671811921	0.3248664545136374	0.9988574262404665	5.50830506121109e-122	0.005002947359613218
Serbia	0.9997042274941702	0.2963669956047852	0.999851636915408	6.35956683439456e-163	0.001777186880710152
Slovakia	0.9997817391178193	0.4742060026869417	0.9989170473853538	4.8148082195123516e-123	0.0048719526761037985
Slovenia	0.9993084879960654	0.263226982178799	0.9996225627911774	7.260330373882702e-144	0.002878836609629986
South Africa	0.999541880406507	0.3275100154193069	0.9997726367476113	7.02661283507177e-154	0.002234740740455484
Spain	0.9998818238420555	5.792521784154815	0.99970109841234	1.824503494598033e-180	0.00140638951698537
Sri Lanka	0.999883276580504	0.463670878398315	0.9999368125540464	3.5171839309784276e-179	0.00183363347052894
Switzerland	0.9988430860666272	1.191569724302196	0.999921189138853	8.16520451097307e-175	0.0013595650613871526
Thailand	0.9996274772657597	0.2634985490743702	0.9998018817251977	1.33747402429307422e-156	0.002086216108498704
Tunisia	0.9992807636780852	0.28522535774118296	0.9997591094505634	2.5731180739034168e-152	0.0023243852045057973
Turkey	0.9997612736939028	3.4938138911208626	0.9998813589519674	9.87804854782857e-167	0.001684452328571333
US	0.99990868009974				

6.6 Logistica Doppia - Casi minimi 1000

country	slope	intercept	r value	p value	std err
Afghanistan	0.9992590281408428	0.07750808980080137	0.9995688684624223	3.08148930256681e-141	0.003769308946692631
Algeria	0.9993494913230234	0.2515742724024583	0.9997650316931567	2.60798797530576e-153	0.00372267073334595762
Argentina	0.9997139491338716	0.513752402402574	0.9994154903156777	4.77956971608711e-150	0.0037077073334595762
Armenia	0.9998384574830563	0.10405531169931237	0.9996175094754595	3.2958235050281208e-143	0.002895801398450197
Australia	0.9998921740842758	0.1621160299889524	0.99994171737291488	8.9290482060751e-181	0.001113174726461736
Austria	0.999883276580504	0.463670878398315	0.9999368125540464	3.517183930978427e-179	0.0011783643347052894
Azerbaijan	0.9996246359680375	0.12427439765406234	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Bahrain	0.9972892198251798	1.09977284659277398	0.9986300820201798	2.1120787410064716e-118	0.00547783916647075
Belarus	0.99781627559569	0.6252211116605362	0.9988303116605360	4.94190180131160071e-170	0.00346455801044772
Belgium	0.9998811116605369	0.15446786598281142	0.999824908024249	4.851348350323521e-159	0.001310932692709
Bosnia and Herzegovina	0.999882860607293	0.0539786598281142	0.999824908024249	4.851348350323521e-159	0.001310932692709
Bulgaria	0.9921679200554373	1.69972776652522686	0.9967022790870208	0.00924535555559560	0.00924535555559560
Cameroon	0.9971689290729976	6.6279329455571201	0.9986046550217099	4.874228083227308e-118	0.00552788182073813
Canada	0.9997658308659454	1.1696442496275267	0.999807586324825	2.1590719794640577e-167	0.00158778724727044
Chile	0.9998111253862098	0.3426377807654717	0.9999037753934491	7.18953461734816e-171	0.001454054583566269
China	0.9998811116605369	0.12247385765406234	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Colombia	0.999045357279877	0.7088671116578095	0.9995179482793165	4.946397747268842e-139	0.0032529945878916516
Cote d'Ivoire	0.996857980199436	0.5852229436059986	0.99851106339997731	9.329689451366652e-117	0.00570888125717147
Croatia	0.99988545357938247	-0.001880282668196287	0.9999052371845871	3.58279543586876e-171	0.014430919325831106
Cuba	0.9996301868747653	-0.04122776639096186	0.999776080738622	3.508608061744347e-154	0.00221795288562677
Czechia	0.9996211366257461	0.62211202347853941	0.9998075863056077	4.01258363716716e-157	0.0022179528850742807
Dominican Republic	0.9998811116605369	0.39232912334376	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Ecuador	0.9998811116605369	11.442654320119847	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Egypt	0.9995230527202771	0.2930075863056075	0.999975528372993	1.978480443345205e-152	0.0023187781404616765
Finland	0.9989178741906349	0.921388156862804	0.9994652973625514	5.526264657058476e-137	0.0034257405408895606
France	0.9989464232519482	33.895976303742527	0.99947263047746	2.845304496825114e-137	0.00340093302265183
Germany	0.999781656286028	7.798929908574792	0.999837667842921	6.48532145715899e-169	0.001527801956449435
Ghana	0.9942480700458617	0.8381177895519427	0.9970495504281501	2.95180071806511e-103	0.00082406458345994
Greece	0.9998811116605369	0.6252211202347853	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Hungary	0.9998071135913018	0.6359603853808085	0.9993002546184598	1.138720692935174e-131	0.0039178095959574087
Iceland	0.9998304347708367	0.05688219412672879	0.999866779018196	1.91390996782298e-164	0.0017108729381484207
India	0.9996805951529052	0.9895089161377655	0.9998442261740285	2.339879542593138e-161	0.001848751129207667
Indonesia	0.9998812378465676581	0.122412378465676543	0.9999375290597181	2.039981735212401e-179	0.001171661371124957
Iran	0.9992990956775844	16.14051173567961872	0.9996494602464194	5.2157521931844304e-145	0.0027744227464893785
Ireland	0.9998811116605369	0.6252211202347853	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Israel	0.99983917809895	1.029521214286412	0.99982019286412	1.63585137971229e-158	0.00319377255383452
Italy	0.9999346544584883	3.3438109422204434	0.9996744556912	2.764032520384136e-192	0.00084582706765513
Japan	0.999035564014351	1.9628118890874587	0.9995058690205444	1.5248711862860792e-138	0.0032934971161275093
Kazakhstan	0.9990087679139289783	0.3947091128308764	0.999614242289468	6.713897656954733e-141	0.0031026215698493247
Korea, South	0.9998971897519816	0.5174796455755303	0.9999499692995018	8.568061456149529e-184	0.001048538152311837
Kuwait	0.9975817559638026	0.9234744135656562	0.9998801222483152	4.899056333977576e-121	0.000521057917575
Lithuania	0.9998811116605369	0.6252211202347853	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Luxembourg	0.99980864324971702	0.29146328953353036	0.99973515627737814	7.260160117318876e-151	0.00241187390980159
Malaysia	0.999713622335557	0.3723240242856917	0.9993018239343154	1.796723954239713e-170	0.0014687312286851331
Mexico	0.99951074227386981	0.6984663799109967	0.9997625582791037	5.054646622769166e-153	0.00223692544123319
Moldova	0.99944937447967408	0.339184130542899	0.99978903745070453	3.432929884583442e-155	0.00216163251646064
Morocco	0.999630698573287	0.1427857477927684	0.999789030215773	0.00215349398813529	0.00215349398813529
Netherlands	0.9998811116605369	0.0605191	0.9998801222483152	2.3989808102266e-155	0.000521057917575
New Zealand	0.99977469710753	0.2500436301076553	0.999839115828075	2.7533704043054e-184	0.00350280892331672
North Macedonia	0.999249315962602	0.2401034694101466	0.9998651952602782	1.816965530371179e-145	0.00276439918443517
Norway	0.9993073716940433	1.46821727782991074	0.99965555745120053	1.128936536364828e-145	0.00275013012337781
Oman	0.999532017349921	-0.009758011097005692	0.999724489956347	4.382645969980045e-150	0.002465008124950795
Pakistan	0.9988865972855778	1.80454068711101477	0.99954111134893918	1.816872706675953e-136	0.003470805276566914
Panama	0.9983678198475525	1.34363470334486982	0.999189795858393	0.004215465773721036	0.004215465773721036
Philippines	0.9998811116605369	0.6252211202347853	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Poland	0.9995201384398926	0.2216540270458826	0.9999377903043544	1.412995439863745e-176	0.0032565391655752
Portugal	0.9996331275854368	1.6145670670720604	0.9998149294394514	6.02823392285589e-158	0.0020163406226116573
Qatar	0.9972407560287373	2.651429402847464	0.9986214295631957	2.8123525768840623e-118	0.005494879740446531
Romania	0.999730843790369	0.43740963527284235	0.9998627374951996	7.505947635588604e-164	0.001736593804195141
Russia	0.999935215294322	0.434388035719172	0.9999676430369495	0.00956458445886796e-192	0.000823582157360238
Serbia	0.9998811116605369	0.3997406206268653	0.999839115828075	6.713897656954733e-163	0.0008778137761037985
Slovakia	0.99976173911753	0.4742206206268653	0.999873073853538	4.314489929117318876	0.00371579361037985
Slovenia	0.9992084879960584	0.26322058982718799	0.999622562291174	0.0028789363609629986	0.002774574049455484
South Africa	0.999541880406507	0.3275100154193069	0.9997726363746113	7.026612835077177e-154	0.0027347547049455484
Spain	0.9998818248420555	5.7927184154815	0.9994907910841234	1.8245034945948033e-180	0.001406589561659837
Sweden	0.9992045061918278	2.4506505671593004	0.999598563096811	1.1960227521925108e-142	0.002968763180465109
Switzerland	0.99984308060666272	1.1915692743032196	0.99992111893188853	8.16520451097037e-175	0.00131596503613871526
Thailand	0.9998811116605369	0.3997406206268653	0.999839115828075	8.21243483973499e-161	0.0018752452131811882
Turkey	0.9997613736052028	9.43981891130702	0.99988033718874	9.877808454704437e-156	0.0031516321838571333
U.S.	0.9993096806999744	13.428789143130416	0.9999436878427225	1.275324876539844e-185	0.001001745562050275
Ukraine	0.9998812473014433	0.920984153954252	0.99954450275159479	1.9505244297078207e-136	0.00347349798422729
United Arab Emirates	0.9998842129684848	1.190457030222277	0.99994348876366084	7.651751793501886e-136	0.003261686565593612
United Kingdom	0.999849773950175	3.4072574673919007	0.9999425567052721	1.1197383467375896e-175	0.0012875497950904044
Uzbekistan	0.9993458979267545	0.1058655984320673	0.9996423171773892	6.293201401607289e-145	0.002802694149776083

6.7 Logistica Doppia - Casi minimi 2000

country	slope	intercept	r value	p value	std err
Algeria	0.9995464939889234	0.2953407289111283	0.9997659316091567	2.6361722797530576e-153	0.002267487689066694
Argentina	0.9995747317037626	0.4637442402407414	0.9997447752793377	4.47916750346e-110	0.0011738338905456179
Austria	0.999883276580504	0.463670878398315	0.9999368125540464	6.93048283551e-150	0.0011738334347052392
Austria	0.999883276580504	0.463670878398315	0.9999368125540464	6.93048283551e-150	0.0011738334347052392
Bahrain	0.9972891298251798	1.0997284659277398	0.9986300820201798	2.1122078410064716e-118	0.005477839164747003
Belarus	0.9978162957556869	0.9203718947241832	0.9989334402566438	2.4061901422483748e-123	0.00483473387647752
Belgium	0.998061150573309	1.5448750266059506	0.9999023410878574	1.4094780131160871e-170	0.014648658104447283
Canada	0.9997658308659454	1.6196442496275267	0.9998852586324825	2.1590719794640577e-167	0.0015877872477044
Chile	0.999883276580504	0.463670878398315	0.9999368125540464	6.93048283551e-150	0.0011738334347052392
China	0.999883276580504	0.463670878398315	0.9999368125540464	6.93048283551e-150	0.0011738334347052392
Colombia	0.9990453597287477	0.7086871116578095	0.9995179483793165	4.946379747768842e-139	0.0037529945878916516
Czechia	0.9996211366257461	0.6211203474583941	0.9998070556650677	4.01258637316716e-157	0.02058736500742807
Dominican Republic	0.9995420033877281	0.40528191395412705	0.9997650714826578	3.1149115163880527e-153	0.002271641275751657
Ecuador	0.99820319234376	0.442694535199487	0.9996902719059	2.734674384474e-102	0.008218422932791063
Egypt	0.9995392205502271	0.29307305155561597	0.99975323827372923	1.9784084433452056e-152	0.00231827840816265
Finland	0.999883276580504	0.5712881889087458	0.9999368125540464	5.204532038274561e-154	0.0014648658104447283
France	0.9993464237519482	0.3389527630477446	0.9994730737425276	2.845034449625114e-137	0.003409330263651183
Germany	0.999881656286028	7.798929908574792	0.9998937667842921	6.485321457515899e-169	0.0015278019566449435
Greece	0.9993736534678999	0.4252362280997204	0.9996677951984888	2.1823200116036106e-146	0.0027010546869242784
Hungary	0.9985067135813018	0.6359683853808065	0.9993002546184598	1.138270692925174e-131	0.0039178095984087
India	0.999680351529052	0.989509161377655	0.99988070556650677	2.3369879542593138e-161	0.001848731129207266
Indonesia	0.999883276580504	0.1212881889087458	0.9999368125540464	2.093873135321248e-179	0.0014648658104447283
Iceland	0.9992399535738344	1.40511537861837	0.99984562464184	2.372752135321045e-145	0.002774427464883738
Israel	0.99963108309892	1.0952411402864121	0.9998201553916481	1.6376581378717229e-158	0.001987672658354521
Italy	0.99993465448584883	3.3438109422204434	0.99965089475659124	2.764032502384136e-192	0.00084827067625513
Japan	0.999035564014351	1.96281889087458	0.9995058690205444	1.5428711862860792e-138	0.003293479161275093
Kazakhstan	0.9990087639289783	0.394709128308764	0.9995007656945733e-141	6.7138876215698493247	0.003262175698493247
Korea, South	0.9997407197519482	0.3712881889087458	0.9999368125540464	6.93048283551e-150	0.0011738334347052392
Kuwait	0.9997831755953826	1.4923474413556562	0.9998801227248137	4.890563339775766e-121	0.005132109791147562
Luxembourg	0.9995086426491702	0.39146383958335016	0.99970315162737814	7.260160117138876e-151	0.024118739008801587
Malaysia	0.99971362935557	0.3723240242856917	0.99990218295343154	1.79067239542974913e-170	0.0014687032286883331
Mexico	0.9995107427386981	0.6984663799109967	0.9997625582791037	5.04646622769166e-153	0.002283692544123319
Moldova	0.9994919347967408	0.339184135042899	0.9997817459070453	3.4239298845853424e-155	0.00216163251646064
Morocco	0.99963047487684	0.14782881889087458	0.9997817459070453	1.3989209845853899e-155	0.00134648658104447283
Netherlands	0.999883276580504	0.71508042420433	0.9999368125540464	2.700310323250236e-154	0.00103293479161275093
Norway	0.9992073716940433	0.442694535199487	0.9998952586324825	1.289375636364825	0.002774427464883738
Pakistan	0.9988859728755778	1.8045046871101477	0.99945111143899318	1.816872706675953e-136	0.003470805276569194
Panama	0.9983671839475525	1.3436347033486982	0.99981897975583933	8.9418114422202863e-129	0.004215465773721036
Philippines	0.9996194662475197	0.42938442695232174	0.99980895179636833	2.5570076194796027e-157	0.002048597299885964
Poland	0.9998518394896966	0.222164029074058826	0.9999279088043544	1.4159594539837456e-176	0.0012586290186575725
Portugal	0.9997407197519482	0.3438109422204434	0.9999368125540464	6.0182281889087458	0.0014648658104447283
Qatar	0.9972891298251798	1.5645125940847464	0.9996214259361957	2.012503766286063e-118	0.0034947974044637
Romania	0.99973108437390369	0.4370396357284235	0.9998637738951996	7.505347635588603e-164	0.001739530841951541
Russia	0.9995935215294322	0.434380835719172	0.9999676430369495	2.0956458445886796e-192	0.0008432582157362038
Serbia	0.999704242649149	0.296366956047852	0.9998516396115408	6.359566834394356e-163	0.00177780881910152
South Africa	0.9995418804065057	0.327501054193069	0.9997263673476113	1.026612835057177e-154	0.0022347547049455484
Spain	0.99988182384260555	5.792521784154815	0.9999407910848334	1.8245034945948033e-180	0.0006665683505337
Sweden	0.9997407197519482	0.42938442695232174	0.9999368125540464	1.1999716328501642e-142	0.002990761804653931
Switzerland	0.999883276580504	1.1915692743032196	0.999921359188853	8.1652045109737e-175	0.0031595650613871526
Thailand	0.9996274772857597	0.2634985490743702	0.9998018817251977	1.337474039307422e-156	0.0020862161084980704
Turkey	0.99976132736939028	3.4938318911208626	0.9998832859156974	9.78808454708176e-167	0.0016145232285871333
US	0.9999086800999744	1.3428718914301406	0.9999543878427225	1.7579324876539844e-185	0.000011745620620725
Ukraine	0.9988812473014433	0.9203894515954252	0.9994502571519479	1.950524497078207e-136	0.003473497978422729
United Arab Emirates	0.9988942129684848	1.1904570302722277	0.9994334876366084	7.651757193501886e-136	0.0035261686565593612
United Kingdom	0.9998499773950175	3.4072574673919007	0.9999245567075271	1.1197383467375896e-175	0.0012875497950904044

6.8 Logistica Doppia - Casi minimi 5000

country	slope	intercept	r value	p value	std err
Australia	0.999821740044258	0.162160298896524	0.999917137291488	8.8290498206751e-181	0.001131747624661736
Austria	0.999883276580504	0.453670878398315	0.9999368125540464	3.517189376409827e-179	0.00173834347052894
Belarus	0.999883276580504	0.463670878398315	0.9999368125540464	6.93048283551e-150	0.0011738334347052392
Belgium	0.999883276580504	0.463670878398315	0.9999368125540464	6.93048283551e-150	0.0011738334347052392
Canada	0.9997658308659454	1.6196442496275267	0.9998832586324825	2.1590719794540577e-167	0.00177787872477044
Chile	0.9988112638627088	0.3426377807654717	0.9999037739334491	7.189534617348116e-171	0.014540745835662769
China	0.9955740233877281	0.6211203474583941	0.99997650714826578	4.01258637316716e-157	0.002271641275751657
Czechia	0.9996211366257461	0.42938442695232174	0.99998070556650677	2.4061901422483748e-162	0.00231827840816265
Dominican Republic	0.9995420033877281	0.40528191395412705	0.9997650714826578	3.1149115163880527e-153	0.002271641275751657
Ecuador	0.999328192347347	0.3438109422204434	0.9999368125540464	2.734674384474e-162	0.0018422933433063
France	0.9997407197519482	0.3389527630477446	0.9999368125540464	1.0260310323250236e-154	0.0003409330263651183
Germany	0.999883276580504	7.798929908574792	0.9998937667842921	6.485321457515899e-169	0.0015278019566449435
India	0.9996805951529052	0.989509161377655	0.999844426142008	1.816872706675953e-136	0.003470805276569194
Indonesia	0.999883276580504	0.12241237865405534	0.9999375290591781	2.09339573521240e-179	0.00177780881910152
Iran	0.99929909657157844	16.140511575961972	0.9996494604264194	2.513752193184304e-145	0.002774427464893785
Ireland	0.9994405399911999119	1.564800987449449	0.9997210955765303	7.650231797288717225	0.00247408037929792
Israel	0.99963108309892	1.0952411402864121	0.9998201553916481	1.6376581378717229e-158	0.001987672658354521
Italy	0.9993465448584883	3.3438109422204434	0.9999368125540464	2.764032502384136e-192	0.00084827067625513
Japan	0.999035564014351	1.96281889087458	0.9995058690205444	1.5248711862860792e-138	0.003293479161275093
Korea, South	0.9998971975194816	0.517474964557503	0.99994996925995018	8.58608164561952e-184	0.001848731129207667
Kuwait	0.9997831755953826	1.22241237865405534	0.9999018295343154	1.79067239542497136-170	0.001468703228688331
Malaysia	0.9995107427386981	0.6984663799109967	0.9997625582791037	6.02833922855896e-157	0.002283692544123319
Mexico	0.9995107427386981	0.7508624429120303	0.9999512028212030	2.75301028234738e-184	0.00285530523120376
Netherlands	0.999883276580504	0.3389527630477446	0.9999368125540464	1.0260310323250236e-154	0.0003409330263651183
Norway	0.9992073716940433	0.434380835719172	0.99994511143899318	1.816877206675953e-136	0.003470805276569194
Poland	0.9996194662475197	1.614567067720604	0.99998089571386833	1.575007194796027e-157	0.00204859729988594
Portugal	0.99963127585436883	1.614567067720604	0.9		

6.9 Logistica Doppia - Casi minimi 10000

country	slope	intercept	r value	p value	std err
Austria	0.999883276580504	0.4636708778398315	0.9999368125540464	3.517183930978427e-179	0.001173643347052894
Belgium	0.9997693097579309	1.5000000000000002	0.9999374000000002	1.4094780131160071e-170	0.001164648658104447283
Canada	0.9957658315295454	0.1395424286275267	0.9998918503248625	2.1507019794540577e-160	0.001537767247472754
Chile	0.9998111253867098	0.3426377807651717	0.99990377183375606	7.189534617348116e-171	0.001450745835662269
China	0.9955766482866946	290.0328692605199	0.9997702183375606	6.196894598350558e-109	0.006954459916037968
Ecuador	0.993820319234376	11.442654353199487	0.99969027219509	2.673467743844474e-102	0.008218422932791063
France	0.9989464232519482	33.8952763047746	0.999473037425276	2.8450344496825114e-137	0.0034093302651183
Germany	0.9997881656286028	7.798929908574792	0.9998937667842921	6.48532145715899e-169	0.0015278019566449435
India	0.99968091791572	0.9860000000000001	0.9999374000000002	2.31375212331843e-161	0.00277442274644893789
Iran	0.99993905778444	0.14051155786127	0.9996494627404194	0.9997210955765303	0.0024749780580729792
Ireland	0.9994440583099119	1.564800998784449	0.99998201553916481	1.637658137871729e-158	0.0019876772658354521
Israel	0.9996391708309892	1.029521402864121	0.99998201553916481	0.99998201553916481	0.0019876772658354521
Italy	0.9999346544584883	3.348109422204434	0.999967445569124	2.764032502384136e-192	0.000845827067625513
Japan	0.9990355654014351	1.962818890874587	0.9999505890205444	1.5248711862860792e-138	0.0032934971161275093
Korea, South	0.9998971897519816	0.5174749645575503	0.99994999692995018	8.568061456149529e-184	0.0010465381532311837
Latvia	0.9999057214060519	0.5000000000000001	0.9999505890205444	5.75086424291203	0.00103539695389076
Netherlands	0.9999057214060519	0.75086424291203	0.9999512022812098	2.75301028234738e-184	0.00103539695389076
Pakistan	0.9988865927855778	1.804506871101477	0.9994511143899318	1.816872706675953e-136	0.003470805276566914
Poland	0.999859184898966	0.22216409270458826	0.9999279088043544	1.4195945359863745e-176	0.0012586290186575729
Portugal	0.9996331275854368	1.614567067720604	0.99981492794394514	6.02823393285589e-158	0.00201634062261165725
Romania	0.999730847390369	0.43704963527284235	0.9998627374951996	0.00173659303061951541	0.00173659303061951541
Russia	0.9999821824862025	0.4343880000000001	0.9999821824862025	0.00173659303061951541	0.00173659303061951541
Spain	0.999831824862025	0.79323184154815	0.99984069791001234	1.2425034494948033e-180	0.0011406380916098537
Sweden	0.9992050561918278	2.4506505671593004	0.9999863096811	1.1960277521925108e-142	0.002968763180465109
Switzerland	0.9998430806066272	1.9156932743032196	0.9999211893188853	8.165204510970737e-175	0.0013159650613871526
Turkey	0.9997612736939028	3.4938318911208626	0.99998813589519674	9.877808454708217e-167	0.001614532285871333
US	0.9999086800999744	13.428789143130416	0.9999543878427225	1.2759324876539844e-185	0.0010011745562060275
United Kingdom	0.999849973950175	3.4072574673919007	0.9999245567075271	1.1197383467375896e-175	0.0012875497950904044

6.10 Logistica Doppia - Casi minimi 20000

country	slope	intercept	r value	p value	std err
Belgium	0.9998061150573309	1.5448750266059506	0.9999023410878574	1.4094780131160071e-170	0.0014648658104447283
China	0.9997693097579309	1.5000000000000002	0.9999374000000002	1.4094780131160071e-170	0.0014648658104447283
France	0.9989464232519482	33.8952763047746	0.999473037425276	2.8450344496825114e-137	0.0034093302651183
Germany	0.9997881656286028	7.798929908574792	0.9999376678427235	2.75301028234738e-184	0.00103539695389076
India	0.9996805915159052	0.9860000000000001	0.9999444267142008	2.369879542593138e-161	0.001848731129207676
Iran	0.9992990951775844	16.140511557961872	0.99996494602464194	2.513752193184304e-145	0.00277442274644893789
Italy	0.9999821824862025	3.3610000000000003	0.9999821824862025	2.75301028234738e-184	0.00103539695389076
Netherlands	0.9999057214060519	0.75086424291203	0.9999512022812098	2.75301028234738e-184	0.00103539695389076
Portugal	0.9996331275854368	1.614567067720604	0.99998149294394514	6.02823393285589e-158	0.0020163406226116573
Russia	0.99935215294322	0.434388035719172	0.9999676430369495	2.0956458445886796e-192	0.000843258215360238
Spain	0.999881824820555	5.79252184154815	0.9999407910841234	1.8245034945948033e-180	0.0011406589651698537
Switzerland	0.9998430806066272	1.19156932743032196	0.9999211893188853	8.165204510970737e-175	0.0013159650613871526
Turkey	0.9997612736939028	3.4938318911208626	0.99998813589519674	9.877808454708217e-167	0.001614532285871333
US	0.9999086800999744	13.428789143130416	0.9999543878427225	1.2759324876539844e-185	0.0010011745562060275
United Kingdom	0.999849973950175	3.4072574673919007	0.9999245567075271	1.1197383467375896e-175	0.0012875497950904044

7 Interpolazione su Gompertz Doppia

7.1 Grafici



Interpolazione fallita su Bangladesh
Interpolazione fallita su Bhutan
Interpolazione fallita su Burma
Interpolazione fallita su Denmark
Interpolazione fallita su Equatorial Guinea
Interpolazione fallita su Iraq
Interpolazione fallita su Peru

7.2 Gompertz Doppia - Casi minimi

country	slope	intercept	r_value	d_value	std_err
Afghanistan	0.99905012777467	0.7049000000000001	0.99905012777467	5.40979477937446e-139	0.0004591359303191516
Albania	0.9982615617633192	0.1841213843020508	0.9982615617633192	4.16031507414067e-126	0.004591359303191516
Algeria	0.999052733331349	0.5761951473940744	0.999052733331349	4.995603587799516	0.00310654578686007
Andorra	0.9996671709879557	-0.06931880850740413	0.9996671709879557	7.0771616383551e-156	0.00212486480855426
Angola	0.991492165968588	0.02103389671620092	0.9937745804316648	1.5624736749812007e-88	0.011652066711042053
Antigua and Barbuda	0.99608451872952	0.07529634898055094	0.994270055992918	3.628114914608177e-90	0.0112263106996565
Argentina	0.9997403203200516	0.5694673802302050	0.9997403203200516	4.99931366903200516	0.003353166603200516
Armenia	0.9987403203200516	0.5694673802302050	0.9987403203200516	4.99931366903200516	0.003353166603200516
Australia	0.999764629051299	0.26584301709527972	0.99986705775138	7.1518663079472793e-164	0.0017091042349401627
Austria	0.99983598582563	0.8518919505729582	0.99933114295461897	7.1525296294826546e-177	0.0012300462786032078
Azerbaijan	0.9987663627040413	0.3915147626026396	0.9993421357191717	6.8718201243079996e-133	0.0037996248978349897
Bahamas	0.9991142156829113	0.0372588555309584	0.998383535247372602	3.7139348774930767e-115	0.00595984625230307
Bahrain	0.9991142156829113	0.0372588555309584	0.998383535247372602	3.7139348774930767e-115	0.00595984625230307
Barbados	0.99970534396809574	0.1089420480664939	0.9991248596354355	1.158372215099149e-127	0.00433050747987266
Belarus	0.9960389377303531	3.279716146858391	0.9980512389686317	1.91783722793475144e-111	0.00652793610289803
Belgium	0.999624832898075	2.9767701661363913	0.99819610962486657	1.582112668320951e-157	0.00203722391367993
Belize	0.9986052336945176	-0.00620844956389502	0.99740497147057361	2.2540490472794065e-104	0.00783304168608959
Benin	0.9775734777777777	0.00921609100000000	0.9998160910000000	1.0616248000000000	0.001624800000000000
Bhutan	0.99886744897935	0.05293448978143144	0.999236913040867	1.0630988675131200e-129	0.00883480315711731
Bosnia and Herzegovina	0.999653932103926	0.0401099668199596	0.9979501448615128	6.3021658301859e-156	0.002122129802567938
Botswana	0.98744123253048919	0.0817485764726921	0.994022664553207	3.557136944265993e-82	0.013662027067475216
Brunei	0.9982174352559569	0.1604536541336777	0.999135560218374	1.705318730383783e-127	0.0043538005995657865
Bulgaria	0.998626457122538	1.118510924594375	0.9979795252812190	1.3050520900000000	0.00177170587474749
Burkina Faso	0.999730127000000	0.0560456030000000	0.9985604560300000	4.7135086000000000	0.0003027000000000000
Burundi	0.8855531086081973	1.3309374545619037	0.9421246930420241	3.8803524587084e-115	0.0302786742517165
Cambodia	0.9981736716647549	0.06756341293153475	0.998401761992091	0.059942408116076615	0.00203722391367993
Cameroon	0.9946513400957794	1.156458442593542	0.997404938789874	8.73785263056002e-106	0.007527163703261098
Canada	0.999754974974368	1.19519700158816122	0.998819795401394	7.760945768341992e-167	0.001610294087507101
Central African Republic	0.9728165000000000	0.00271000000000000	0.9881600000000000	0.0000000000000000	0.0000000000000000
Chad	0.998271753317	0.0370881488355	0.99923448978143144	1.182720397176408e-84	0.01286167080800000
Chile	0.999759093489209	0.330560816730837	0.998658673806080	6.231828998246694e-164	0.00176713705888059
China	0.99415908954793089	83.13359540412785	0.9970751614373373	1.9816306580768125e-103	0.0078831063637014
Colombia	0.9981896936836513	1.226196963568054	0.9992696230679094	1.474660679159353e-131	0.00329118101244292
Congo (Brazzaville)	0.981065137932948	0.2517460303953037	0.9980209943012944	2.88446398743635e-79	0.000200309350930207
Congo (Kinshasa)	0.9934740425436	0.00373000000000000	0.99834740424442448	2.4250360000000000	0.0000000000000000
Cote d'Ivoire	0.99679858078033913	0.46501843265982989	0.99849017672989331	1.7582156255598568e-116	0.005748550505331192
Croatia	0.9996891344576546	0.25401999854772	0.9990005694473	4.04693321512589e-170	0.001481714577197096
Cuba	0.99978111991565591	0.081745114363163	0.999799268469499	1.21083511530170e-156	0.002101008189610143
Cyprus	0.999730119393355	0.0590456000000000	0.9989448442170400	3.049980841269896e-151	0.001625538215632189
Czechia	0.99973110933533	0.664253117398805	0.9989869130404707	1.543990841269896e-158	0.005348489521637985
Diamond Princess	0.995548908590317	2.2529237055610475	0.9957664904765981	4.526490947276906e-107	0.00729271714802607
Djibouti	0.9969405602989231	0.27748165108419836	0.9984905871504875	1.736120991288733884e-116	0.0057485966086892
Dominica	0.99787760042501	0.01160768922762095	0.99829304784357452	3.4735093108151725e-131	0.00363250492549284275
Dominican Republic	0.998767200673339	0.8389165162051505	0.99973136172931547	6.729911966655656e-134	0.0037088428544659597
Egypt	0.9994417913088365	0.317122639806528	0.997716146952984	2.8344010436202730e-150	0.00244811348795234
El Salvador	0.997605284206135	1.3623912748135	0.9995363686203	0.008517447745922e-142	0.002992839764308756
Eritrea	0.9959440637034724	0.03518148122843294	0.9962036882652994	1.1018417285817221e-113	0.00616255689020705
Ethiopia	0.9998285019063208	-0.050284515197059	0.999887075040963	2.30288505447667e-124	0.00472104787997824
Eswatini	0.9993170000000000	0.00100000000000000	0.9999100000000000	0.0000000000000000	0.0000000000000000
Finland	0.99934881740654	0.598188437398938	0.998444821803996	4.82535640232170e-141	0.0030918524761316965
France	0.995189089349362	15.64241013920844	0.997951255594439	2.929396712444745e-107	0.007254062336682616
Gabon	0.9917936120864401	0.1578898539108104	0.9962480829767313	1.2659436843839545e-98	0.00931647452934023
Gambia	0.9968643984677651	0.070878871166698	0.9972060922125	4.848846024081976e-63	0.022621313998336087
Georgia	0.99765092775881704	0.1268716533934934	0.99804347759562993	2.2421000000000000	0.000919131831318188
Germany	0.9997403203200516	5.389000000000000	0.9997403203200516	9.754490821777530e-107	0.001480452030000000
Ghana	0.9986152051557859	1.532202166730580	0.997417465203204	9.7850706064337892e-82	0.01070000000000000
Greece	0.9994561718979672	0.2645195632408874	0.996754250562383	7.58323610460657e-147	0.002670061709118363
Grenada	0.991588642494936	-0.003319352921638842	0.9982196000000000	3.1318933759843e-113	0.00621043569310894
Guatemala	0.995362932997771	3.405398171688144	0.99928350671788482	2.095052354054797e-113	0.00620562969015831
Guinea-Bissau	0.9995929826635219	0.0659886800923652	0.9997991216564947	6.71038843238868e-111	0.0066052209616022235
Guyana	0.9851669817333697	0.03613529886000000	0.9974364025921129	1.4515020307297356e-87	0.01186852036212813
Haiti	0.983542497834936	0.2727702643254847	0.99502436016746485	5.9925902105959446e-93	0.010323786517616452
Holy See	0.1019395520725305	-0.1691554357266276	0.9911760731923190	1.1363998632421248e-81	0.0149081379923738
Honduras	0.9983657657619057	0.00921609100000000	0.9994880529210000	8.36720353574700000000	0.003535573800000000
Hungary	0.999731131131132	0.087325057393509	0.997417465203204	9.7484000000000000	0.001624800000000000
Iceland	0.99938629048059242	0.1456629480558313	0.99831479110591057	8.5026344823493765e-160	0.0019240795950096
India	0.9991519851876539	1.363170552073683	0.99795440029886714	1.318933759843e-113	0.0023225176867412553
Indonesia	0.9992959820179501	0.8429109135227827	0.99693716056847592	1.115610568475923e-144	0.002820141579521704
Iran	0.9996913217409752	7.114427641295118	0.998462071403861	1.3250513535516464e-161	0.00183814255664325475
Ireland	0.9993232312233102	0.00623087170942775	0.9990000000000000	1.4279680000000000	0.0000000000000000
Israel	0.9996991867181783	0.8912518215409955	0.998961089353605782	1.0595220958771136	0.000919700673547879
Italy	0.99933217804667658	0.02728774134134283	0.9996871733852029	1.5682239317244000e-118	0.00360000000000000
Jordan	0.9992020081881624	0.0623086731049725	0.9961072767398384	1.247973035747933e-124	0.002923042857117899
Kazakhstan	0.9991600000000000	0.0000000000000000	0.9991600000000000	0.0000000000000000	0.0000000000000000
Kenya	0.999704122724122	0.0343448123227237	0.99891469314400000	1.247973035747933e-124	0.002923042857117899
Korea, South	0.99990385358777461	-0.094344078456227049	0.9999050600000000	2.3299053987466370e-127	0.003514209081097213
Kosovo	0.99842978318117611	0.013023465290567240705	0.999459983209348800	6.20915089130952e-119	0.00534068090038563185
Kuwait	0.997404164051684559	0.03265162849135605	0.99971640164063129	1.05750169164063129e-129	0.00414070634438109
Kyrgyzstan	0.9987895793101601	-0.027967453534519643	0.9984817789840125	3.640642373824914e-101	0.008528314603935093
Lao PDR	0.9995165192795906	0.0022535246552635	0.99952408126000000	3.5186000000000000	0.0000000000000000
Latvia	0.9995177448431395	0.052235264552404197	0.99948498715470792	0.003316706700000000	0.0000000000000000
Lebanon	0.9997287448977657	0.34205532442324053	0.99863399225628605	1.77432137382836e-138	0.00433723465272278
Liberia	0.999278741342383	0.0272877413413756	0.9997501447365213	1.05779821354062e-107	0.00242175387375576
Lithuania	0.99933395208547936	0.5593780853609895	0.9986580000000000	1.53692652559893e-163	0.001728654857197457
Luxembourg	0.99970405208654558	0.3581079528026265	0.99		

7.3 Gompertz Doppia - Casi minimi 100

country	slope	intercept	r value	p value	std err
Afghanistan	0.998815512377467	0.248019324350417	0.989970306325434	5.850926342782446e-139	0.003250915151915152e
Albania	0.9990576317321	0.347137204295038	0.99997293359215955e	4.1093157027930976e-120	0.00310645788600757
Algeria	0.999053733331349	0.576915473940744	0.99995633582799516	4.7971792009276e-141	0.00310645788600757
Andorra	0.9996677027988557	-0.06931880850740413	0.999974430195918	7.077161633835517e-156	0.002124864880545276
Argentina	0.9982487491363684	1.2477449150395614	0.99991690470756042	2.8246183988400556e-128	0.004268665033516664
Armenia	0.998740392400516	0.5609467380240858	0.99995178993831262	4.969319680924257e-139	0.0032512666958209715
Australia	0.9997684629051299	0.2684031709527972	0.99996705775138	1.751863709472793e-164	0.0017091042349401627
Austria	0.99876582682463	0.8385000000000002	0.999951114293007	1.754259294824687e-177	0.003250915151915152e
Azerbaijan	0.99876630776875	0.91315726202659	0.9999449150393719	6.000000000000000e-133	0.00379924605834990
Bahrain	0.99911194846925768	3.5525263643583797	0.995588831505005	5.2523816364351708e-95	0.00979173131315366
Belarus	0.996038977303551	3.279716146858391	0.9980513238968617	1.917832793475144e-111	0.006527936102889803
Belgium	0.9996234832898075	2.97670271151663913	0.99998109624866587	1.58211266832995156e-157	0.00203782239136793
Bolivia	0.998854865279385	-0.0592344378413478	0.99992269013048617	1.0603998672613643e-129	0.0041198310157117131
Bosnia and Herzegovina	0.9996553932103926	0.0490236666819596	0.9999750512610486128	0.002122129802569738	0.002122129802569738
Brunei	0.998613535255965	0.01650000000000002	0.999913556024737	1.700000000000000e-007	0.002122129802569738
Bulgaria	0.99920245188838	0.115193924549375	0.99996705775138	1.703055100000000e-110	0.008545117010397175
Burkina Faso	0.998527930021102	0.2975138867998339	0.999956470520931	4.771145386690516e-141	0.0030894901091075207
Cambodia	0.9981736716647549	0.06756341291351475	0.9984010761992091	2.38305285447084e-115	0.005924801607661115
Cameroon	0.9946513400975794	1.1564564642593452	0.999740393078874	8.738735263050062e-106	0.007527163703261018
Canada	0.999755497942368	1.19159700158816122	0.9999819793401834	7.780945768341992e-167	0.001610294087507101
Chile	0.99920245188838	0.3500000000000002	0.9999330373078	0.00979800000000000e-003	0.00979800000000000e-003
China	0.99913190934939	0.367512583437333	0.99996580583379	1.000000000000000e-003	0.00979800000000000e-003
Colombia	0.9985189936836513	1.2226169963568054	0.9999262306709949	1.4774460657913538e-131	0.00392911801242492
Congo (Brazzaville)	0.9810691179312928	0.2517640303593037	0.9900320994703953	4.7785920538335e-79	0.01463057957585596
Congo (Kinshasa)	0.9975529470543268	0.0298937128854883	0.9985527692441488	5.3637256505132507e-117	0.0056321075691767294
Costa Rica	0.9997174834697996	0.0376818879048396	0.999975081481526	5.08395384360536e-156	0.002117525428143433
Cote d'Ivoire	0.996798580733913	0.4650184326629869	0.998940162699331	7.5821525462559568e-116	0.00945850505331192
Croatia	0.99920245188838	0.0000000000000002	0.99996705775138	1.75821525462559568e-116	0.00945850505331192
Cuba	0.99971811195155931	-0.082365154347163	0.999958831505005	2.41215338170876e-156	0.0021010101898610142
Cyprus	0.99551108303456134	0.052656210828437626	0.99997391081363173	3.668866012168475e-151	0.003933948565347759
Czechia	0.9997351709335394	1.664251173968059	0.99998692346047107	1.4639908411969986e-169	0.010548488521637905
Diamond Princess	0.99554890389059317	2.2529320756501475	0.999756745651042681	4.562694094276969e-107	0.00729271774780260
Djibouti	0.9969464052098921	0.2748615084198036	0.9989405871504987	1.736120991283848e-116	0.00574859960698692
Dominican Republic	0.9987678267033339	0.838951672615052	0.9999371686839201	7.629911966385666e-134	0.003708842854656397
Ecuador	0.99920245188838	0.0000000000000002	0.99996705775138	1.75821525462559568e-116	0.00945850505331192
Egypt	0.999447122639980528	0.317112639980528	0.9999721166952584	2.824401004606705e-150	0.002442113148975232
El Salvador	0.9976052842068135	0.1362395127481335	0.999935636862603	2.0885714177745925e-142	0.002892233976430875
Ethiopia	0.9982820516602508	-0.05028184515197509	0.9988285075409636	2.302885205447667e-124	0.004721047879979824
Finland	0.9990348817407664	0.9818884273983218	0.9999564842803996	4.882556043182101e-141	0.0030918524761316965
France	0.9951890948493462	1.15264101392044	0.999759178444756e-107	0.007254062336668216	0.001610294087507101
Gabon	0.99920245188838	0.0000000000000002	0.99996705775138	1.620000000000000e-003	0.00979800000000000e-003
Greece	0.99768527552579874	0.1268701253994934	0.9999523277393944	6.059134797508667e-137	0.00561019131589163
Germany	0.99895777552597863	5.2598950687291217	0.9999824869871234	9.75448434319664e-144	0.0125348269024700
Ghana	0.9985189505373859	1.5232023168763508	0.99947147645202342	2.787859076643778e-92	0.010709001057680896
Greece	0.9994561718979962	0.0376818879048396	0.999965348887614	5.08965213610460675e-147	0.002670061079118113
Guatemala	0.995362593997771	0.3405398171881444	0.998235603788482	2.0965032354057487e-113	0.00620652699015831
Guinea	0.998171639769164	0.0000000000000002	0.999956336862603	1.3298572495712986e-126	0.0045293053315758
Honduras	0.99920245188838	0.0000000000000002	0.99996705775138	1.620000000000000e-003	0.00979800000000000e-003
Hungary	0.9997953153152421	0.86716562832791590	0.9999048631506465	1.4534515018414498e-126	0.00445615727515628
Iceland	0.9996353806490242	0.14866592480585313	0.99998381270991057	4.26652212493476e-160	0.0019240795905696
India	0.999519358718676359	1.3631770555207368	0.99997544092986714	2.3466491519515714e-152	0.002322516867412553
Indonesia	0.9992591872017951	0.8429109135822728	0.99996378162618508	1.1156160584098541592e-144	0.00282271411579521704
Iran	0.9996931274094752	7.114427642591181	0.99998462017403861	1.3250513535516464e-161	0.018381425666432547
Ireland	0.99920245188838	0.878161628963814	0.999965348887614	6.818866000000000e-148	0.00979800000000000e-003
Israel	0.99920245188838	0.0000000000000002	0.99996705775138	1.000000000000000e-003	0.00979800000000000e-003
Italy	0.999378470466769	0.115256986115128	0.9999863717685209	4.509174173434515e-193	0.0008291223303337118
Japan	0.9932312625015838	0.132975260862677	0.99995611223330608	1.595813120166366e-100	0.008533541993604754
Jordan	0.99920245188838	0.06230867735042975	0.9999610726973384	2.957634494000291e-143	0.00292350428571899
Kazakhstan	0.9981014088122672	0.46232064731262213	0.99990649840062213	4.767724027660562e-122	0.00468117772754400
Kenya	0.99770414515637421	0.1792060187062537	0.99995126306758405	1.794821120774280e-103	0.001700464128203937
Korea, Rep.	0.99920245188838	0.0000000000000002	0.99996705775138	1.000000000000000e-003	0.00979800000000000e-003
Kosovo	0.9842744736248456	1.4842380911766575	0.999988963788763	2.3888071312842028e-83	0.003922128032067597
Kuwait	0.995116953849385	1.8740315147358046	0.9999316123555451	1.68849575485862174e-143	0.002906533032315788
Kyrgyzstan	0.9988794838420421	0.342083764262551	0.99993098736283549	6.0480781288763e-154	0.0028922112402898756
Latvia	0.9995744521335795	0.02767744284215948	0.99996154949092253	1.68849575485862174e-143	0.002906533032315788
Lebanon	0.99920245188838	0.3424028376405782	0.999971078933656	0.00979800000000000e-003	0.00979800000000000e-003
Liberia	0.999342642158604	0.0000000000000002	0.99996705775138	1.000000000000000e-003	0.00979800000000000e-003
Lithuania	0.99920245188838	0.053573203519391	0.99996705775138	3.641798494001175e-129	0.004113034922330278
Luxembourg	0.999707132158874	0.38107937052806265	0.9999869404098999	1.551470072406783e-163	0.00170546176832450199
Madagascar	0.99704304616504589	0.1127953125304864	0.99992164109033262	4.0575016186406332e-129	0.0041407067332544109
Malaysia	0.9998611235093493	0.03643110781631546	0.99990815376005939	8.463633117296e-170	0.00142068104885841
Maldives	0.9975003851597402	0.3093655305994703	0.99997737011914	3.545971946935976e-150	0.00245293117121019
North Macedonia	0.99926751416101745	0.1607558816865983	0.9999532883326367	1.16186408010267657e-139	0.0032031615586610192
Norway	0.99910703057572	1.9820273890386488	0.9995676104143895	3.5182263602789976e-141	0.003089081084134898
Oman	0.9984378747114934	0.20455545172402423	0.99991461708588954	9.713924712465284e-128	0.00432791387886198615
Pakistan	0.999197107391786	4.325896104578037	0.999963226582606	1.68212391571244030e-118	0.005464026299398759
Paraguay	0.9995744521335795	0.0287361172527258	0.999969334208173	1.924242240547644e-144	0.00263931176338524
Philippines	0.999341847147207	0.3323765263272737	0.9999437137958659	6.62328530459363e-156	0.0032371447089372131
Poland	0.9996788288452843	0.734288154720737	0.99998468472040242	6.7618483532735983e-150	0.001838538395325939
Portugal	0.9996680178931611	1.5137593102686323	0.9999833203968394	5.305289989931592e-160	0.0019142428205164481
Qatar	0.9972009030947094	2.696444391172804	0.9998610990306555	3.9632177533234e-118	0.00551058685272885
Romania	0.999431847174655	0.2749287717912216	0.999986130564729736	1.034260853797214e-163	0.00174291208762278
Russia	0.9995361174802363	3.37227812781263	0.9999593340528283	4.816183872216e-148	0.00269086744644666
Rwanda	0.99966130157395	0.0227361172527258	0.99996705775138	2.93275377755	

7.4 Gompertz Doppia - Casi minimi 500

country	slope	intercept	r value	p value	std err
Afghanistan	0.398940551277467	0.24842019324360417	0.9995159700325434	5.959383427824466-139	0.00325999135191326
Angola	0.939053733331349	0.176204772925098	0.9995633582799516	4.112083721323207-133	0.003103245783860757
Algeria	0.999053733331349	0.156915473340744	0.9995633582799516	7.43717329092736-141	0.003103245783860757
Andorra	0.9996677072988557	-0.06931880850740413	0.99979439193518	7.077161638355176-156	0.002124864880554526
Argentina	0.9982487491363684	1.2477449150395614	0.9991690470756042	2.8426183988400556-128	0.0042686650351351664
Armenia	0.9987403092400516	0.5609467380240858	0.9995178993831262	4.9693196809242576-139	0.003252166695820915
Australia	0.9997684629051299	0.2684301709527972	0.99986705775138	1.7518683079472793-164	0.001709104234940627
Austria	0.9998339988582563	0.8518919507259362	0.999311429461897	1.7542596794824654-177	0.000230046278832078
Azerbaijan	0.99977072988557	0.098204772925098	0.9995633582799516	6.932083721323207-133	0.003103245783860757
Bahrain	0.9911194846925768	3.5357263643587397	0.995588215095005	1.572381634351208e-95	0.00979179131315366
Belarus	0.9960389377303531	3.279716146858391	0.9980513238968617	1.9178372793475144e-111	0.006527936107898003
Belgium	0.9996238988075	2.9767071151663913	0.9998109628465897	1.5821126683295915e-157	0.0020378223913676993
Bolivia	0.998854865279385	-0.05923444378413478	0.9992269013048617	1.0663998762163643e-129	0.00411983101571171
Bosnia and Herzegovina	0.99965352103926	0.040996668199596	0.9997801486151298	6.3026165730128905156	0.002122129802567938
Bulgaria	0.995620451722558	1.118510924594375	0.997868523872191	1.0130556177338516-110	0.00686113709077475
Burkina Faso	0.99977072988557	0.098204772925098	0.9995633582799516	4.0422274863227406e-101	0.00329999135191326
Cameroon	0.9940513400975794	1.1156458642593452	0.9974042878874	8.7738756200562e-106	0.007577163703251098
Canada	0.9997554979447368	1.9159700158816122	0.999819795401834	7.780945768334192e-167	0.001610294087507101
Chile	0.9997530934892907	0.3813359840412785	0.999865867806209	2.631289986586694e-164	0.0079831068367014
China	0.994159083793089	383.13359840412785	0.99709515681433733	1.9861306580768125e-103	0.00392911810103592
Colombia	0.9985189936836513	0.098204772925098	0.9997296215993568054	5.09920513086515056	0.00411983101571171
Cote d'Ivoire	0.998789583073391	0.43650184226628989	0.9989161752693231	1.7582154625539658e-116	0.005748550505321192
Croatia	0.999688134457645	0.9998199054584772	0.999406579135386473	4.0469332151589e-170	0.001481774157179096
Cuba	0.9997811199156591	-0.06828615431763	0.9997992968864998	2.4121553815631076-156	0.0021001081898610143
Cyprus	0.99951083945614	0.052655208423626	0.9997991087361456-151	3.6688760121684745e-151	0.00293848565347755
Czechia	0.9997351709335394	0.6642551173968059	0.999869234047107	1.6439908411969986e-169	0.001504886521637905
Diamond Princess	0.99552039805311	0.27748035039131	0.9997296215993568054	4.2762610563227406e-107	0.000222748632274060892
Egypt	0.999768206373339	0.8389516726150532	0.9993731686839201	6.7629911966583566e-134	0.00370828354565939
Ecuador	0.9935012774434415	12.152244736279044	0.9967489927139267	2.42154628114056656e-101	0.00811846039444909
Egypt	0.9994471913088365	0.3171263998056228	0.9997271166952584	2.8344410043622073e-150	0.002448113418975234
Finland	0.9990348817407664	1.89188847213893218	0.9995644842803996	4.8225560431821016-141	0.0030918524761316965
France	0.9951889043893462	159.6241013920844	0.99759115255894439	2.929396718444476e-107	0.00725406336668216
Germany	0.99977072988557	0.098204772925098	0.9995633582799516	9.739095208314076-159	0.0019370081898610143
Ghana	0.99983105373589	1.5322031169763508	0.9947147452032342	2.785907056386545778e-92	0.01072901057680996
Greece	0.9946517189795672	0.26451595634887614	0.996975246254622383	7.5832236110406475e-147	0.00267006170911963
Guinea	0.99811763597159164	0.10540764169385852	0.9990956069785218	1.3298133249571298e-126	0.004452965879988758
Honduras	0.9983656657619057	0.3589324679000754	0.999487025983409	8.36724883574124e-138	0.00335350373805831
Hungary	0.997953135512421	0.8673166582791509	0.9990940861506465	1.4354108144998e-126	0.004456167271536528
Iceland	0.9996353874904242	0.14866924805811313	0.999831474899307	1.35244100436221249347e-160	0.00424079817950096
India	0.999725203189	0.098204772925098	0.9995633582799516	2.346671931255582	0.00329999135191326
Indonesia	0.9995227127993	0.8429109135827728	0.99963719152618508	1.1156105684759738e-144	0.0028201111570521104
Iran	0.9996312174904752	7.7144276421591181	0.9998462071403861	1.325051353516464-161	0.00183125666443247
Ireland	0.99963216444920422	0.87070367421238814	0.99980479466402506	6.814231907002237e-157	0.002070817166637984
Israel	0.9996699719617813	0.8921825114049965	0.99982915253057	1.5592207588031407e-159	0.001937008135478259
Italy	0.9993787404660769	1.1152559611512128	0.9999687173685209	1.999829151154516-193	0.0008291424443688771
Japan	0.9932421725013838	0.1762553848087616	0.99682072232056	1.970391591232207e-100	0.000222748632274060892
Kazakhstan	0.999725203189	0.4623016670007313	0.999068473367675	1.740791143733643e-124	0.00486117727524096
Korea, South	0.9965680252807996	66.51228056386935	0.997016563022009	1.5362200828941187e-103	0.00978465305341585
Kosovo	0.9834767934845866	1.4842831091176675	0.9991896831738767	2.3888714182948202e-83	0.013202628495867086
Kuwait	0.9951169549098385	1.8740315147358046	0.9973616122555451	1.359212311459796e-107	0.00179229330387118
Kyrgyzstan	0.9988794638420421	0.0326520684622515	0.9993098736283549	6.064807812876636e-132	0.003892128032067597
Latvia	0.9995744512335795	0.02761477484215948	0.9997296215993568054	1.6884975465866217e-143	0.00209060332231578865
Lebanon	0.99977072988557	0.098204772925098	0.9995633582799516	9.27666121515454e-154	0.001937008135478259
Lithuania	0.9982314990530599	0.5862370200119431	0.9992054435773818	3.6412994994201175e-129	0.000417335299220272
Luxembourg	0.9997074366518274	0.38107957052805265	0.9998605293317819	1.551470079460683e-163	0.0017504676832450195
Malaysia	0.9998611423509431	0.0364131078161546	0.9990819152920593	8.64363071272726e-172	0.0014206810488538
Mexico	0.9973956265517406	3.356889104578037	0.9986979032521659	2.0991508718903952e-119	0.00540818641460223
Moldova	0.9991789775352904	0.3139662836861003	0.9995963997269768	1.531318760906906385e-142	0.0029767667590001254
Morocco	0.999725203189	0.9567453838189	0.999831474899307	2.937691655284053e-128	0.00172929330387118
Netherlands	0.999725203189	0.39986526335323	0.999866525171384	1.574691655284053e-163	0.0018385437454517
New Zealand	0.999308535877461	-0.0943047845662703	0.9990905005322707	3.39950629087365577e-170	0.001475911747652048
Niger	0.999619355977112	-0.2430965374474045	0.9997257701101914	3.5456779465619766e-150	0.00245541137121019
North Macedonia	0.9992667541618145	0.160755878686898	0.999552884336367	1.18164080382026576-139	0.003202861135478259
Norway	0.999107030575726	1.982058711528488	0.9995676104143894	0.003080951084134898	0.0043272131084134898
Oman	0.99843678747114934	0.24055544572142023	0.999416170858894	9.713942721465284-128	0.0043272131084134898
Pakistan	0.999725203189	0.857261813522728	0.9996334058312137	1.02424440764576-144	0.003823731167383524
Philippines	0.9988418474743427	1.632376502632737	0.9994371933956959	5.676648556605936e-136	0.0035144270871093713
Poland	0.999678672884534	0.7345828514472079	0.999846528462042	1.1842823540714926e-161	0.0018385439395525993
Portugal	0.999668017931611	1.51375912086332	0.9998320399683934	5.302509891315892e-160	0.0019142438205164481
Qatar	0.99720809309307409	2.69644491172804	0.9981099030036555	3.96321177533234e-118	0.005515508685272895
Romania	0.99974394734659	0.2199803503911719	0.99986814059352	1.04326261041224778e-163	0.001937008135478259
Russia	0.999725203189	0.53427272252603	0.9998505285782	4.081055372247448	0.003501229471171019
San Marino	0.9992018895520894	0.96372049907429	0.9995721957987595	6.298674826105626e-96	0.00965012204056012
Serbia	0.9970161840865511	3.27235608712067	0.9988277260436439	5.593042293911382e-117	0.00567768374244866
Slovakia	0.99731832911433	0.6677554942465349	0.9987178842754606	1.0390966277692576-119	0.005299191837951314
Slovenia	0.999706049638083	0.07963270100202635	0.9998822203261102	7.090522176936742e-167	0.001608570728663825
South Africa	0.9872702691020801	8.72650983737662	0.99359562423911	5.651232352606411e-88	0.01176937674669086
Spain	0.998634626202016	8.127811035717316	0.99917789939207	5.5812745016109027e-174	0.0013440511805090207
Sweden	0.999725203189	0.3623016670007313	0.9998291511722121	0.003829991351224778	0.0043272131084134898
Switzerland	0.9998631976541383	0.8999286339325936	0.9995226352766056e-177	0.001252287403795683	0.0043272131084134898
Thailand	0.999807666971401	0.1579046638414819	0.9998933763621248	7.6633200494612779e-169	0.00153063712029939
Urusia	0.999725203189	0.01992387717912216	0.999670356479736	1.5346208537937292e-146	0.0026908674220112
United Arab Emirates	0.9992163944990503	0.8033033203033438	0.9996101315748577	3.170854613031486e-143	0.002925763108986273
United Kingdom	0.9998330160795298	3.736281736328375	0.9999162704113339	1.283192906178103e-173	0.001354023232956357
Uruguay	0.9983289804266512	0.402024988527447	0.9998389047670056		

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country	slope	intercept	r value	p value	std err
Afghanistan	0.9898405512277467	0.24842019324360417	0.9995159700324534	5.95938342782446e-139	0.00325489995161913426
Angola	0.9998238135274519	0.2477449152074747	0.9995159700324534	7.42771052095705e-141	0.00325489995161913426
Argentina	0.99824894913835684	1.247449150395314	0.9991690470576042	2.8346183984030155e-128	0.00325489995161913426
Armenia	0.9984203092400516	0.5609467380240858	0.9995178993831262	4.969319680924257e-139	0.00325489995161913426
Australia	0.9997684629051299	0.26884301709527972	0.999986705775138	1.7518683079427293e-164	0.0017091042349401627
Austria	0.999839988582563	0.8518919507259852	0.9999311429461897	1.75425962948724654e-177	0.0012300462786032078
Azerbaijan	0.9987663627004143	0.391514762626396	0.9994321357191717	6.8718201243079996e-133	0.0037996248978349897
Bahrain	0.9911194846925768	0.35352263643583797	0.995588315095005	5.2323816364351208e-95	0.00012139133163867
Belarus	0.9999999999999991	2.0000000000000001	0.9999999999999991	1.9999999999999991	0.0000000000000001
Belgium	0.99962734832890875	0.24767071151663913	0.9998109654366597	1.581126682309515e-157	0.000707822391367993
Bosnia and Herzegovina	0.9996539332103926	0.040109966681998596	0.9997950148615128	6.302616583018579e-156	0.000722122129807567938
Bulgaria	0.9956204571722558	1.118510924594375	0.997965528572191	1.013055617738516e-110	0.0066461137053977475
Cameroon	0.9946513400975794	1.1564586442593452	0.9997404393078874	8.737852650650062e-106	0.0007527163703261098
Canada	0.9997539597942368	1.91597015886122	0.999981975401834	7.78094576834192e-167	0.0016102940875071018
Chile	0.9997530930489209	0.3503068166730827	0.9996858637806029	2.631289982466094e-164	0.000716737058388697
China	0.9999999999999999	0.0000000000000001	0.9999999999999999	1.0000000000000001	0.0000000000000001
Colombia	0.9985189836836513	1.2226169963568054	0.999296230679994	1.4774460657913538e-131	0.0003929118101242492
Cote d'Ivoire	0.996798580733913	0.465018426629869	0.998490167699331	1.7582154625559658e-116	0.005748550505331192
Croatia	0.9996898134457645	0.9999000485084772	0.9999900485084473	4.0493321515189e-170	0.001481774157719796
Cuba	0.9997811199156591	-0.068268154341763	0.9997992986864998	2.412155381563107e-156	0.00210010898610143
Czechia	0.99973509335394	0.664255173966059	0.9998969234047107	1.643999411969986e-169	0.00508484252465937
Dominican Republic	0.9999999999999999	0.0000000000000001	0.9999999999999999	1.0000000000000001	0.0000000000000001
Ecuador	0.999305277743431	0.152244736778044	0.996748992173287	2.4213525811465665e-101	0.0021144038443099
Egypt	0.9984471913088365	0.3171763399806528	0.9997727716695284	2.834442053627073e-150	0.0024448134189795234
Finland	0.99903438817407664	0.9818884737893218	0.9996448482083996	4.882556043182101e-141	0.003091852476713169695
France	0.9951890984893462	154.6241013920844	0.997749615594439	2.92393671591353e-107	0.00725400336666216
Germany	0.999857775597863	5.22895067291217	0.999928496871234	9.754484344319664e-177	0.0012534826904274001
Ghana	0.999825052052052	1.520203168763508	0.9999262305205205	9.27880512443868e-192	0.0030720071705191185
Greece	0.999515071717172	0.2745420515124	0.9998534254202383	7.02303119260751e-147	0.00345670071717191185
Hungary	0.9997953153151241	0.867316582791509	0.99990861506465	1.4354150184149498e-126	0.004456167275136528
Iceland	0.9996353806490242	0.148665924805585313	0.9998314788991057	8.50622121249347e-160	0.0019240799590696
India	0.9995139518876539	1.3631770555207368	0.9997544092986714	2.3464491519155714e-152	0.002322516867412553
Indonesia	0.9992593520179951	0.842910915822728	0.9999867182618508	1.115610568475923e-144	0.0028201411579521704
Iran	0.9996931274094752	7.114427642591181	0.99984620714043861	0.0018381425666432547	0.0000000000000001
Iraq	0.9999999999999999	0.0000000000000001	0.9999999999999999	6.0000000000000001	0.0000000000000001
Israel	0.9999999999999999	0.0000000000000001	0.9999999999999999	1.5922170588031407e-159	0.001937008715478359
Italy	0.999937874067069	3.11525698611512	0.9996871713685209	4.509147714153451e-193	0.0002914244368777
Japan	0.9932312625015838	0.5926554806826777	0.9966112223310608	1.595217718304663e-100	0.008533541993604754
Kazakhstan	0.998104088812629	0.462326940062213	0.9999006498769575	1.2467911437393643e-124	0.004681177277524406
Korea, South	0.9965680252807996	66.51228056386935	0.99709165302009	1.5362200828941187e-103	0.00798496530534185
Kuwait	0.9951169549089385	1.874031514735346	0.9979316112553451	3.3592123114597796e-107	0.0079249233801118
Lithuania	0.9999999999999999	0.0000000000000001	0.9999999999999999	3.0000000000000001	0.0000000000000001
Luxembourg	0.9997074366513274	0.381079705280635	0.99998605293318719	1.5514700797460682e-163	0.001750467682450195
Malaysia	0.999861142350431	0.0364131078161546	0.9999081529250093	8.643630712126299e-172	0.001420881048853841
Mexico	0.9973956265517406	3.35688996704578037	0.9986979032521659	2.0991508718903952e-119	0.005340818641406323
Moldova	0.999178975352904	0.399962638368103	0.9999563972967968	1.5313187609609385e-142	0.00297676590001254
Morocco	0.998257894690318	0.9947458638141029	0.9999172205408999	2.5074217998961959e-128	0.0024631108549909907
New Zealand	0.9999999999999999	0.0000000000000001	0.9999999999999999	1.3522000000000001	0.0000000000000001
North Macedonia	0.9992675145161315	-0.09434078456627043	0.999806306322707	3.2390363890746577e-170	0.001473911476159409
Norway	0.99910703057576	1.160755878688598	0.999532884336367	1.1816408038202657e-139	0.0023028761558641093
Oman	0.9984367874114934	0.2405545572142023	0.99995676104143895	3.5182366302789976e-141	0.0030809510841349898
Pakistan	0.997272582603177	4.3258197155987546	0.998621369225682606	1.6822193517244003e-118	0.00546426299398795
Panama	0.9991971037915786	0.8336161871527258	0.99963442081237	1.924242444074657e-144	0.002836931167383524
Philippines	0.9999999999999999	0.0000000000000001	0.9999999999999999	1.0000000000000001	0.0000000000000001
Poland	0.99967887383453	0.734387851472079	0.9998465847920447	1.1842273540174926e-161	0.001373539395525992
Portugal	0.9996868017893161	1.513759310286332	0.9998332039863394	5.320598993135892e-160	0.001914238205154481
Qatar	0.997208093097409	2.696444391172804	0.99861090900305655	3.96321177533234e-118	0.00551550868527285
Romania	0.9997439418734659	0.2749556322639819	0.9998617405822857	1.04262666788314e-163	0.0017429108962278
Russia	0.999366074680361	3.534267728726263	0.99996450802803782	4.816075938722166e-148	0.0025901639257471356
Serbia	0.9999999999999999	0.0000000000000001	0.9999999999999999	5.30300652713306e-117	0.00029927700000000001
Slovakia	0.99713133291433	0.66717494246533	0.9997117542746605	3.0991529183795131e-119	0.00052992770000000001
Slovenia	0.99990649638083	0.0796327000207639	0.9998822203261102	7.090522176926742e-167	0.00160570728866327
South Africa	0.98772072639120801	8.726508353737602	0.999359562743913	5.651232352606411e-88	0.01176962674669086
Spain	0.999834626262016	1.8271811035272316	0.999917788399207	5.58174510169027e-174	0.0013440511080050207
Sweden	0.9993917531975515	1.8282633508151775	0.9999619909489121	6.99546911488138e-148	0.002608310746869832
Switzerland	0.9998631926541383	0.9175793725643925	0.9999286339325936	8.390553253266056e-177	0.00125287403795653
Thailand	0.9999999999999999	0.0000000000000001	0.9999999999999999	7.665330349615669e-169	0.0000000000000001
Turkey	0.9998676953740497	2.0880223209878666	0.9999347313517132	1.18243417395395e-178	0.0013974080704561742
U.S.	0.999865673089612	19.89834635189618	0.9999329466851591	5.24297733627121e-178	0.001213838056740953
Ukraine	0.99902797577565141	0.8613075360971152	0.9995112230883203	9.28977304798174e-139	0.0032755732664776087
United Arab Emirates	0.9992163944999053	0.8033033303063348	0.999610135748577	3.17085461803148e-143	0.002925768108960223
United Kingdom	0.999833016095298	3.736281736232735	0.9999816270411339	1.2831929061781083e-173	0.0013564023329256357
Uzbekistan	0.9979023750763503	0.683895712550499	0.99997030126629032	4.084907325169705e-126	0.004507350814565931

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country	slope	intercept	r value	p value	std err
Algeria	0.9990582733331349	0.576915473940744	0.9995603530789516	7.49717192009273e-141	0.00310654578660976
Argentina	0.99917358729051299	1.2261699631568393	0.9988130709527972	2.6245310572351054	0.00170310234348401627
Australia	0.99976346229051299	0.8518919507259852	0.999311429461897	1.7542596294824654e-177	0.0012300462786032078
Austria	0.998839988582563	3.5352263643583797	0.9955888315095005	1.75232816364351208e-95	0.0097912391313163867
Bahrain	0.9911194846925768				
Belarus	0.996038937703351	3.279716146858391	0.9980513238968617	1.9178372793475144e-111	0.0065227936102898003
Belgium	0.999623482898075	2.9767071151663913	0.9988109624866587	1.5821126683209515e-157	0.002037822391367993
Canada	0.999755497942368	1.15970700158816122	0.9998819795401834	7.780945768341992e-167	0.00161029408750711
China	0.9991590854975089	38113359540417785	0.9970751681433733	2.0246485572056164	0.00798831068365704
Colombia	0.998188936386513	1.22261699631568304	0.999296230679949	1.477460657913538e-131	0.003929118101242492
Czechia	0.9997351709335394	0.6642551173968059	0.9998896234047107	1.6439908411969986e-169	0.015048488521637905
Dominican Republic	0.9987678262073339	0.838951672615052	0.9993731686839201	7.629911966658566e-134	0.003708842544659597
Ecuador					
Egypt	0.9994471913088365	0.31226399806528	0.9997271168952584	2.8344104043627073e-150	0.00244813476595234
Finland	0.999623482898075	0.8518919507259852	0.9988109624866587	4.482361056232313e-151	0.00244813476595234
France	0.99511890984894362	154.6242103920844	0.9975912558594439	2.92939671844475e-107	0.00725402336686216
Germany	0.998857752597863	5.228950687291217	0.9992849868721234	9.754484344319664e-177	0.001253482690247001
Greece	0.9994561718979672	0.9996575420462383	0.999875420462383	7.583236110460756e-147	0.002670061709118123
Hungary	0.99795313512421	0.8673168632971509	0.999094806156465	1.4354150184144998e-126	0.00445616727513652
India	0.9995119705557368	1.38159275632737	0.9997544093867614	0.0023225716607412553	
Indonesia	0.999623482898075	0.892215018612208	0.99982915250357	1.225051353516464e-161	0.001320125664542547
Iran					
Ireland	0.999632164492042	0.114227642591193	0.999846271403861	0.0020708171666373984	0.000725402336686216
Israel	0.9996699796178183	0.8921825140409965	0.999829215250357	6.814231907002237e-157	0.0020708171666373984
Italy	0.9999378704660769	12.15924736273672944	0.9998047966402506	0.0081840640394499	
Japan	0.993212651051838	3.11525586115128	0.99998115115128	4.509147114051435e-193	0.0008291442443688771
Kazakhstan	0.998839988582563	13.5925558610862677	0.9966112223310608	1.5958177183046663e-100	0.008539341993604754
Korea, South	0.99802738057526	0.6531869400092213	0.9999269400092213	0.000795003205341385	0.000795003205341385
Kuwait	0.9951169549989385	1.8704031514735804	0.9973161273555451	1.3592123113597796e-107	0.00170229330277118
Luxembourg	0.9997074366183274	0.381079705286265	0.99986962340931719	1.5514709749460683e-163	0.001704676832450195
Malaysia	0.9998611423509431	0.03641310781631546	0.999908195209593	8.643633071217269e-172	0.0014206811048853841
Mexico	0.9973956265517406	3.356889640578037	0.99869790325256159	2.0991508718903926e-119	0.005340818641406323
Moldova	0.9997189753597904	0.3139662836869103	0.9995963997269768	1.5592270588031470e-159	0.0019370067135478259
Morocco	0.999623482898075	0.9574595813816279	0.99998115115128	4.509147114051435e-193	0.0008291442443688771
Netherlands	0.999711264237777	2.45395775036923	0.9998805256171394	1.3526926652598933e-157	0.00170489541374517
Norway	0.999107305575726	1.9822073886488	0.99966710143895	3.5182366302789976e-141	0.00308051084134388
Pakistan	0.9972725829603177	4.3258197155987546	0.9986395225862606	1.682219351724403e-118	0.005464026299398759
Panama	0.9991971037915786	0.8273617815227258	0.999633420812137	1.92424440476457e-144	0.002836931167383524
Philippines	0.998841847474327	0.13423765026327237	0.99943719359659	5.676648556605936e-136	0.0035144209870937213
Poland	0.999623482898075	0.7434382814517279	0.99984584792042	1.3484223540714996e-161	0.00445616727513652
Portugal	0.999623482898075	0.392215018612208	0.99982915250357	5.9321177533234e-118	0.00191423808756908
Qatar	0.9972080930974709	2.696443391177804	0.998610990306555	1.96321177533234e-118	0.00051508685777985
Romania	0.9997439418734659	0.2749556322639819	0.9998617405822853	4.8162668657883146e-163	0.001742120877227278
Russia	0.999386074680361	8.7265360728726263	0.999980528728726263	0.0025901639257471356	0.0025901639257471356
Serbia	0.997016184086551	3.27235608712067	0.9985277260436439	5.593042293911382e-117	0.0056778734244866
South Africa	0.99872069130801	8.7265360728726263	0.999805803243913	5.651232352604111e-88	0.0117693674669086
Spain	0.99834081862016	0.97811035727316	0.99998115115128	5.651232352604111e-88	0.0117693674669086
Sweden	0.99975751315	1.828227618151279	0.999619984893121	0.995441118101383e-148	0.0036083104680932
Switzerland	0.99986319265451383	0.9715757725643925	0.9999286333925936	8.39395532376605e-177	0.00125278403795683
Thailand	0.9990876669714701	0.1579046638417489	0.9998933736362148	7.663320049612779e-169	0.00153063712029939
Turkey	0.9998669325740497	2.0880232505878666	0.999934163553995e-178	1.53934163553995e-178	0.001194880705861742
US	0.9998656710389612	19.89384635189618	0.9999329466875191	5.242975773627121e-178	0.0012138580956740953
Ukraine	0.9990297577565141	0.861307516971152	0.99995112230883203	9.28977304798174e-139	0.0032755732667476087
United Arab Emirates	0.9992163944990953	0.8033033303063348	0.9996101315748577	3.17085461803148e-143	0.002925768108962263
United Kingdom	0.9998330106795298	3.7362817363282375	0.9999162704113339	1.2831929061781083e-173	0.0013564023329256357

7.7 Gompertz Doppia - Casi minimi 5000

country	slope	intercept	r value	p value	std err
Australia	0.99976346229051299	0.2684301709527972	0.99986975775138	1.7518663719293e-164	0.0017091042349401627
Austria	0.999839988582563	0.8518919507259852	0.9999311429461897	1.917831072694475e-177	0.0012300462786032078
Belarus	0.9960323482898075	3.373168632968391	0.9988130709527972	1.2626638323157e-157	0.003037223223136793
Belgium	0.999623482898075	0.892215018612208	0.999880528728726263	1.2252340714996e-161	0.00445616727513652
Canada					
Canada	0.999755497942368	1.1597071151663912	0.9998819795401834	3.780945768312193e-167	0.001610294087507101
China	0.9997350934892029	0.350388166730827	0.9998658632868029	2.6312889824669094e-164	0.0017167370583880597
Czechia	0.9994159085497309	0.3813359540412785	0.99970751681433733	1.6439908411969986e-169	0.0015048488521637905
Dominican Republic	0.9987678262073339	0.838951672615052	0.999937316868379201	1.629911966658566e-134	0.003708842544659597
Ecuador					
Egypt	0.9999378704660769	0.8518919507259852	0.9988109624866587	4.509147114051435e-151	0.00244813476595234
Finland	0.999623482898075	0.892215018612208	0.999880528728726263	1.2252340714996e-161	0.00445616727513652
France	0.99511890984894362	154.6242103920844	0.9975912558594439	2.92939671844475e-107	0.00725402336686216
Germany	0.998857752597863	5.228950687291217	0.9992849868721234	9.754484344319664e-177	0.001253482690247001
Greece	0.9994561718979672	0.9996575420462383	0.999875420462383	7.583236110460756e-147	0.002670061709118123
Hungary	0.99795313512421	0.867316863297258	0.999933420812137	1.92424440476457e-144	0.00445616727513652
India	0.9995119705557368	1.38159275632737	0.999875420462383	5.676648556605936e-136	0.0035144209870937213
Indonesia	0.9992958310720951	0.8429109135722728	0.99963781621618508	1.1115610568475974e-144	0.002820111157952104
Iran					
Ireland	0.999632164492042	7.114227642591193	0.9998462074103861	1.325051353516464e-161	0.018301425666432547
Israel					
Italy	0.9999378704660769	3.11525586115128	0.99998115115128	4.509147114051435e-193	0.0008291442443688771
Japan	0.993212651051838	13.5925558610862677	0.9966112223310608	1.5958177183046663e-100	0.008539341993604754
Korea, South	0.996568025807996	66.51221038648935	0.9970165360230953	1.50622008941876e-103	0.007949565305341585
Malaysia	0.9998611423509431	0.03641310781631546	0.999908195209593	8.643633071217269e-172	0.0014206811048853841
Mexico	0.997395626517406	3.356889640578037	0.9986979032521659	5.32055932039515892e-160	0.0068042420820516481
Netherlands	0.999711264237777	0.9999372563272373	0.999880528728726263	1.325235263272373e-157	0.003037223223136793
Netherlands					
Netherlands	0.999711264237777	0.9999372563272373	0.999880528728726263	1.325235263272373e-157	0.003037223223136793
Netherlands					
Poland	0.999623482898075	0.7343828145172079	0.999846584792042	1.1848223540714996e-161	0.00183583935235993
Portugal	0.9996860178931611	1.51379310286332	0.99993203998394	5.32055932039515892e-160	0.0068042420820516481
Qatar	0.999711264237777	2.70826364350845	0.9999372563272373	3.325051353516464e-161	0.005340811048853841
Romania	0.9997439418734659	0.2479356322636819	0.9998617405822853	4.816266865783148e-163	0.0017491208772278

7.8 Gompertz Doppia - Casi minimi 10000

country	slope	intercept	r_value	p_value	std_err
Austria	0.999839989030263	0.851891950729852	0.999981096129461897	1.745269294824656e-177	0.001230046233666216
Belgium	0.99965407941368	2.90981516693913	0.999810961294656e-177	1.345209826593193e-157	0.001610294097507107
Canada	0.999755497942368	1.9159760158316122	0.999810961294656e-177	7.78094576834193e-167	0.001610294097507107
Chile	0.9997530934893209	0.3503068166730827	0.999865863780629	2.631288982466094e-164	0.001716737038380597
China	0.9941590854973089	383.13395940412785	0.997051681433733	1.9861306580768125e-103	0.00798831068367012
Ecuador	0.9995012777434415	12.152244736279044	0.9967489921739267	2.4218525811465665e-101	0.00841464039444909
France	0.995189084893462	154.6241013920844	0.9975912558594439	2.929396718444475e-107	0.007254062336666216
Germany	0.9998577752597863	5.2289506877291217	0.9998284968721234	9.754484344319664e-177	0.0012334826991747001
India	0.99965407941368	3.132781035272316	0.999810961294656e-177	1.232051253551646e-162	0.0018381125666432e-47
Iran	0.9996931274099752	7.1144276425911191	0.99984620714093861	1.5576926652599833e-163	0.001750489541874517
Ireland	0.9996321644920422	8.707367421238814	0.9998047966402506	6.814231907902237e-157	0.002070817166637984
Israel	0.9996699796178183	0.8921825140409965	0.999829215253057	1.5592270588031407e-159	0.0019370067135478259
Italy	0.99993787404660769	3.115256986115128	0.9999687173685209	4.50917471153451e-193	0.000829142443688771
Japan	0.9932312625015838	13.592554806862677	0.996611223310608	1.5958177183046663e-100	0.008593541993604754
Korea, South	0.9965680252807996	66.5122805386935	0.997016563022009	1.5362200828941187e-103	0.00798490303341385
Lithuania	0.99965407941368	3.52981035272316	0.999810961294656e-177	1.320512535516464e-162	0.0018381125666432e-47
Netherlands	0.9997112642577617	2.2459899405099323	0.9998605269171394	1.5576926652599833e-163	0.001750489541874517
Pakistan	0.9977225829603177	4.3528197155987546	0.9986369255682606	1.6822193517244003e-118	0.005464026299398759
Poland	0.9996768672884543	0.7343828514472079	0.9998465847920442	1.1848223540174926e-161	0.001835853939552593
Portugal	0.9996680178931611	1.513759310286332	0.9998332039968394	5.320598989315892e-160	0.0019142438205164481
Romania	0.99974398671734659	0.274956322639819	0.9998617405822853	1.0432626866788314e-163	0.001742912088762778
Russia	0.99965407941368	1.9159760158316122	0.999810961294656e-177	1.320512535516464e-162	0.0018381125666432e-47
Spain	0.99983462628079036	8.127811035272316	0.999917788392837	5.581745916159027e-174	0.0013449311800500207
Sweden	0.9993917531975513	1.8282633508151775	0.9996919904891271	6.99546915488183e-148	0.002608310746809832
Switzerland	0.9998631926541383	0.917577725643925	0.9999286339325936	8.393055323526605e-177	0.00125228740375683
Turkey	0.9998676952740497	2.0880232505878666	0.9999347431357132	1.523934163553995e-178	0.0011974880705461742
US	0.9998656701389612	19.89834635189618	0.9999329466875191	5.242975773627121e-178	0.0012138580956740953
United Kingdom	0.9998330160795298	3.7362817363282375	0.9999162704113339	1.2831929061781083e-173	0.0013564023329256357

7.9 Gompertz Doppia - Casi minimi 20000

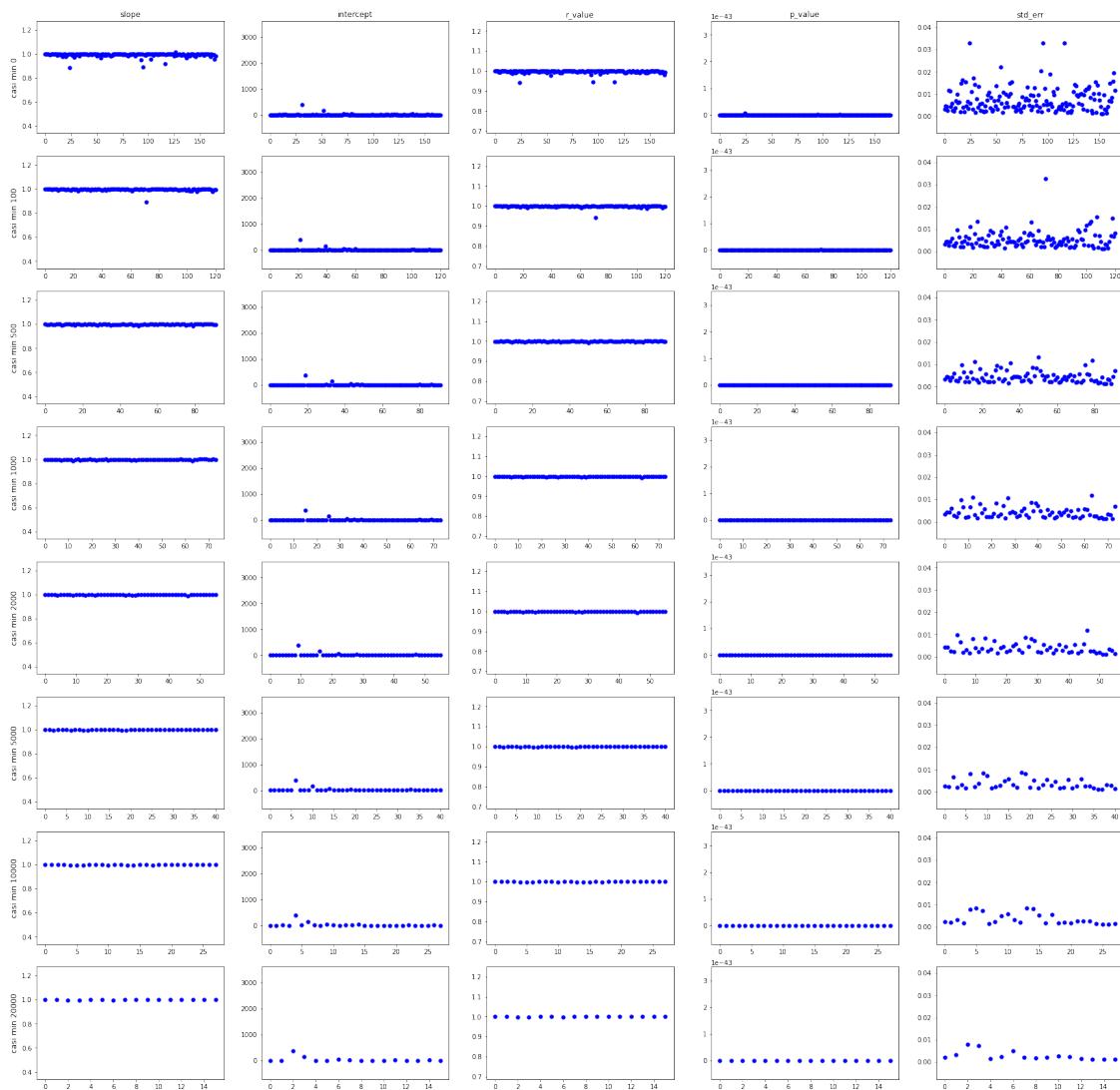
country	slope	intercept	r_value	p_value	std_err
Belgium	0.999524832889075	2.976701171294681	0.9983109624866587	1.582110523029515e-157	0.000207022391367992
Canada	0.999755407941368	1.9159760158316122	0.999810961294656e-177	7.78094576834193e-167	0.001610294097507107
China	0.9941590854973089	383.13395940412785	0.997051681433733	1.9861306580768125e-103	0.00798831068367012
France	0.995189084893462	154.6241013920844	0.9975912558594439	2.929396718444475e-107	0.007254062336666216
Germany	0.9998577752597863	5.2289506877291217	0.9998284968721234	9.754484344319664e-177	0.0012534826902470
India	0.9995139518676539	1.3631770555207368	0.9997544092986714	3.24644915195714e-152	0.0023225716867412553
Iran	0.9996931274094752	7.1144276425911191	0.9998605269171394	1.320512535516464e-162	0.0018381125666432e-47
Italy	0.99965407941368	3.1327811035272316	0.999810961294656e-177	1.320512535516464e-162	0.0018381125666432e-47
Netherlands	0.9997112642577617	2.2459899405099323	0.9998605269171394	1.5576926652599833e-163	0.001750489541874517
Portugal	0.999680178931611	0.999917788392837	0.9999645080283782	5.320598989315892e-160	0.0019142438205164481
Russia	0.9993866074680361	3.534267728726263	0.9999645080283782	4.816107593872216e-148	0.0025901639257471356
Spain	0.9998346262802016	8.127811035272316	0.99991778839207	5.581745016109027e-174	0.0013440511800500207
Switzerland	0.9998631926541383	0.9715757725643925	0.9999286339325936	8.393055323526605e-177	0.00125228740375683
Turkey	0.9998676952740497	2.0880232505878666	0.9999347431357132	1.523934163553995e-178	0.0011974880705461742
US	0.9998656701389612	19.89834635189618	0.9999329466875191	5.242975773627121e-178	0.0012138580956740953
United Kingdom	0.9998330160795298	3.7362817363282375	0.9999162704113339	1.2831929061781083e-173	0.0013564023329256357

8 Comparazione funzioni

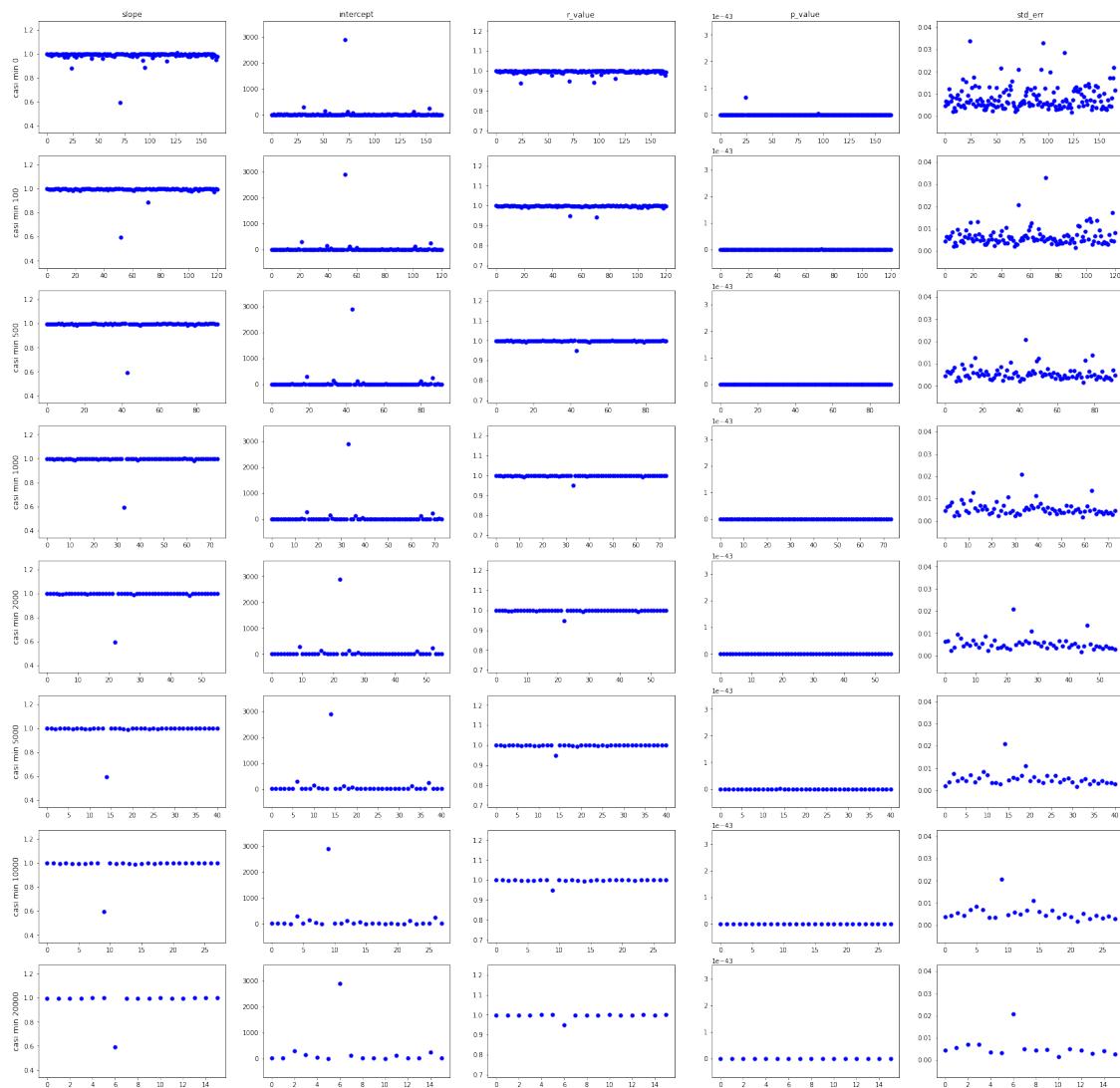
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max slope: 1.019395570275305
min slope: 0.5941305120744029
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max intercept: 2892.4255564678624
min intercept: -0.31439671189685303
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max r_value: 0.9999687173685209
min r_value: 0.9367804790850641
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max p_value: 2.8172605990255234e-43
min p_value: 4.509147714153451e-193
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max std_err: 0.034262771958247576
min std_err: 0.000829142443688771
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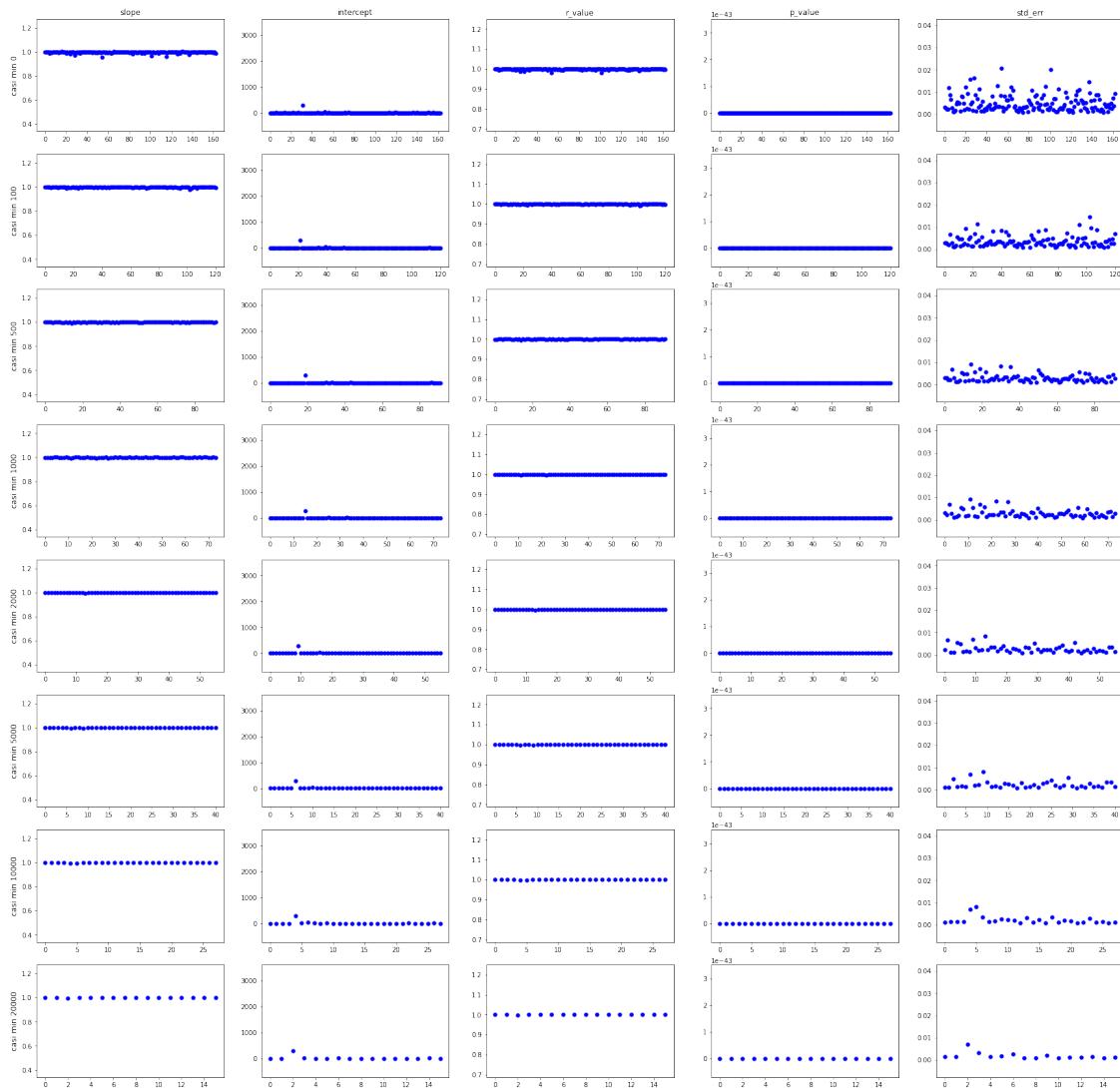
Gompertz Semplice



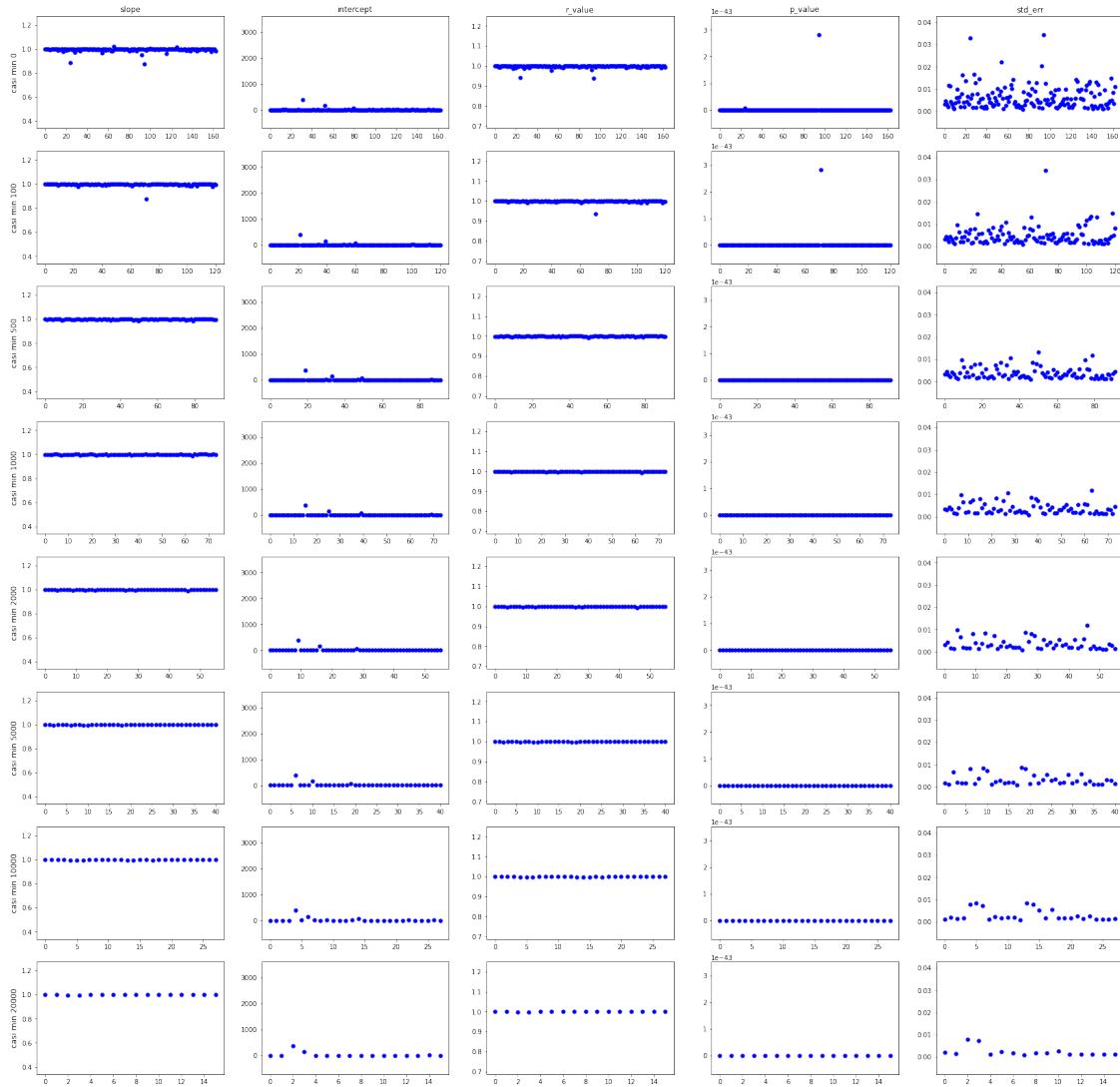
Logistica Semplice



Logistica Doppia



Gompertz Doppia



8.0.1 Casi minimi 0

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	166	93	15438	0.9890021758958953	25.132105072787464	0.995207037877154	4.1389728079768315e-46	0.00625741926842617
gomp	166	93	15438	0.992591008458169	5.0917355314875055	0.9957899154321084	4.8108961510739e-47	0.007503280991235602
doblogit	163	93	15159	0.9966932104900895	2.737227523420471	0.998206680795343	5.24899137396445e-67	0.004996539507541023
dobgomp	163	93	15159	0.9944275601931332	4.722191593910025	0.9968440504989473	1.7628172737981035e-45	0.006281375277220074

8.0.2 Casi minimi 100

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	121	93	11253	0.9916893075798054	34.4397191895982	0.997300243308005	2.398145240233484e-47	0.00644898961413706
gomp	121	93	11253	0.9958158274259802	6.96954517009536	0.997377742780736	1.76201749255773e-47	0.005391669691313085
doblogit	121	93	11253	0.998120727875043	3.67620515416419915	0.99911392760861	1.2340678323963745e-81	0.003624855574716744
dbbgomp	121	93	11253	0.996205502449545	6.361699326331968	0.998071763389818	2.328314544649193e-45	0.0048006298106107

8.0.3 Casi minimi 500

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	92	93	8556	0.994359687379634	45.181528021214584	0.99785331775637	4.23567169801692e-49	0.00537979860129398
gomp	92	93	8556	0.9976304162677327	9.06851515041563	0.998610427804023	2.5966097605304e-85	0.00438697968350196
doblogit	92	93	8556	0.9989216312198014	4.774485473376252	0.9994652275266032	1.414291231143241e-99	0.0029567703090637907
dbbgomp	92	93	8556	0.9980668028474556	8.281314752748745	0.9990243259791822	2.5966608042392325e-85	0.003828996536696967

8.0.4 Casi minimi 1000

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	74	93	6882	0.9915564073309472	56.30835150581216	0.997811358269944	5.265970194291311e-49	0.0054033707347449
gomp	74	93	6882	0.997834278045	11.16179619976841	0.999929427781263	7.659409861037493e-90	0.0041720131197531
doblogit	74	93	6882	0.9989505166315954	5.891660179386013	0.9991771319956316	1.758380170969788e-99	0.00285923632433147
dbbgomp	74	93	6882	0.9982107543553711	10.20913771626918	0.999904401719144	7.6300460150754e-90	0.003079747244559948

8.0.5 Casi minimi 2000

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	56	93	5208	0.99005643110861852	73.7717080942126352	0.997148733518995	6.958603471021804e-49	0.00549219325130923
gomp	56	93	5208	0.998062164366888	14.523613191770918	0.999035803295357	1.099148679518545e-89	0.003924489346119125
doblogit	56	93	5208	0.999128150625028	7.6812356111059525	0.999564881197693	4.7740507291628e-104	0.0026366194067201837
dbbgomp	56	93	5208	0.998307743596944	13.34393311267459	0.9991348496245288	1.0091486795185921e-89	0.00355947381123114

8.0.6 Casi minimi 5000

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	41	93	3813	0.9877433779607803	99.98346659711885	0.9975592446868686	9.50443409208709e-49	0.00518860122950380
gomp	41	93	3813	0.99871124201878	19.29189571982332	0.9991846791556337	4.524365095769194e-102	0.0036253116373791609
doblogit	41	93	3813	0.9992386627314874	10.252894023975862	0.9996196284228773	6.520654545204717e-104	0.0023965324233425457
dbbgomp	41	93	3813	0.998646856726588	17.691136724074017	0.999257704544266	4.49152950277962e-102	0.0032001760033455256

8.0.7 Casi minimi 10000

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	28	93	2604	0.9829705243348943	145.3970080711264	0.9968845496234485	1.391720694205561e-48	0.0056498581464197
gomp	28	93	2604	0.99805643110861852	246.7139974967758	0.9995451334430639	2.435511214979717e-48	0.00545933178521125
doblogit	28	93	2604	0.999248049262427	43.0223415172924	0.99944478451315453	1.24411003886981e-104	0.00284919322642634
dbbgomp	28	93	2604	0.999627872662348	14.548136130462427	0.9994813165459e-104	0.00215465377092	

8.0.8 Casi minimi 20000

Function	Nations	Days	Samples	Slope	Intercept	Rho	p-value	Std Err
logit	16	93	1488	0.972780529696755	246.7139974967758	0.9995451334430639	2.435511214979717e-48	0.00545933178521125
gomp	16	93	1488	0.998818107645206	43.0223415172924	0.99944478451315453	1.24411003886981e-104	0.00284919322642634
doblogit	16	93	1488	0.999406452115803	24.09245941630005	0.999734930156131	3.8730912396909e-110	0.001916239976107792
dbbgomp	16	93	1488	0.9991100439392789	37.599265089059	0.99954538636303	1.245147405929106e-104	0.0023595508286059

