

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

3 Panorama internacional

Datos

Aplicación Shiny disponible en

<http://modestya.securized.net/covid19prediction/>

Número de datos funcionales: 3263

Países/Regiones distintos incorporados: 164

Predicciones:

- ▶ España
- ▶ Andalucía
- ▶ Aragón
- ▶ Asturias
- ▶ I. Baleares
- ▶ Canarias
- ▶ Cantabria
- ▶ Cataluña
- ▶ Castilla-La Mancha
- ▶ Castilla y León
- ▶ C. Valenciana
- ▶ Extremadura
- ▶ País Vasco
- ▶ Galicia
- ▶ Madrid
- ▶ Murcia
- ▶ Navarra
- ▶ La Rioja
- ▶ Mod Lineal
- ▶ Mod NP
- ▶ Mod Aditivo

	σ_R^2			$\sigma_R^2(rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0	0	0	0	0	0	0.666	0.79	0.676
H2	0.002	0.001	0.002	0.002	0.001	0.002	0.681	0.847	0.698
H3	0.004	0.002	0.003	0.003	0.002	0.003	0.744	0.868	0.753
H4	0.007	0.004	0.006	0.006	0.004	0.006	0.743	0.869	0.751
H5	0.01	0.006	0.01	0.01	0.007	0.01	0.757	0.875	0.765

Último dato: Notificación de 2020-05-17 que se publica en la tarde del 2020-05-18.

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	278188	279376	280469	281662	282774	283946
Andalucía	16457	16548	16632	16722	16807	16895
Aragón	7201	7242	7279	7320	7358	7397
Asturias	3354	3368	3380	3394	3406	3420
Islas. Baleares	2098	2104	2109	2115	2120	2126
Canarias	2294	2299	2304	2310	2315	2320
Cantabria	2774	2783	2790	2799	2807	2816
Castilla. La. Mancha	25014	25165	25308	25458	25599	25744
Castilla. y. León	24746	24889	25023	25165	25298	25434
Cataluña	57564	57819	58053	58308	58547	58797
Ceuta	175	176	177	178	179	180
Comunidad. Valenciana	14724	14806	14883	14965	15042	15122
Extremadura	3949	3961	3971	3983	3994	4006
Galicia	10982	11035	11083	11136	11185	11237
Madrid	71595	71779	71944	72134	72309	72503
Melilla	134	134	135	135	135	136
Murcia	2595	2624	2653	2682	2710	2738
Navarra	8335	8426	8514	8604	8691	8777
País. Vasco	18780	18885	18983	19087	19185	19286
La. Rioja	5417	5430	5441	5454	5466	5479

Cuadro: Previsión Confirmados: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.004	0.006	0.011	0.016	0.022	0.025
Andalucía	0.008	0.008	0.017	0.027	0.038	0.047
Aragón	0.008	0.009	0.018	0.028	0.039	0.047
Asturias	0.006	0.006	0.012	0.019	0.026	0.031
Islas.Baleares	0.004	0.004	0.008	0.012	0.017	0.020
Canarias	0.002	0.004	0.006	0.009	0.011	0.012
Cantabria	0.002	0.005	0.009	0.013	0.018	0.020
Castilla.La.Mancha	0.006	0.007	0.012	0.019	0.026	0.031
Castilla.y.León	0.004	0.004	0.007	0.011	0.015	0.016
Cataluña	0.002	0.006	0.008	0.011	0.013	0.014
Ceuta	0.001	0.005	0.008	0.011	0.014	0.014
Comunidad.Valenciana	0.008	0.008	0.016	0.025	0.035	0.043
Extremadura	0.001	0.002	0.003	0.005	0.007	0.007
Galicia	0.009	0.008	0.017	0.026	0.037	0.045
Madrid	0.002	0.004	0.006	0.009	0.012	0.013
Melilla	0.004	0.004	0.008	0.012	0.016	0.019
Murcia	0.015	0.013	0.029	0.045	0.063	0.077
Navarra	0.011	0.011	0.024	0.038	0.054	0.066
País.Vasco	0.009	0.008	0.017	0.026	0.036	0.044
La.Rioja	0.001	0.003	0.004	0.005	0.007	0.006

Cuadro: Previsión Ratio Incr. Confirmados: Mod. lineal - Horizonte 1 – 5 días.

Tabla Ratio Incr. Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	0.004	0.004	0.008	0.012	0.016	0.021
Andalucía	0.008	0.006	0.011	0.016	0.021	0.027
Aragón	0.008	0.006	0.011	0.017	0.022	0.027
Asturias	0.006	0.004	0.008	0.012	0.016	0.020
Islas.Baleares	0.004	0.003	0.005	0.008	0.011	0.013
Canarias	0.002	0.002	0.004	0.007	0.009	0.011
Cantabria	0.002	0.003	0.006	0.009	0.012	0.015
Castilla.La.Mancha	0.006	0.006	0.012	0.018	0.023	0.029
Castilla.y.León	0.004	0.006	0.011	0.017	0.022	0.028
Cataluña	0.002	0.004	0.008	0.013	0.017	0.021
Ceuta	0.001	0.005	0.011	0.016	0.021	0.026
Comunidad.Valenciana	0.008	0.006	0.011	0.016	0.022	0.027
Extremadura	0.001	0.003	0.006	0.009	0.011	0.014
Galicia	0.009	0.005	0.009	0.014	0.019	0.023
Madrid	0.002	0.003	0.005	0.008	0.010	0.013
Melilla	0.004	0.002	0.004	0.007	0.009	0.012
Murcia	0.015	0.011	0.022	0.033	0.044	0.055
Navarra	0.011	0.011	0.021	0.032	0.043	0.053
País.Vasco	0.009	0.006	0.011	0.016	0.022	0.027
La.Rioja	0.001	0.002	0.004	0.007	0.009	0.011

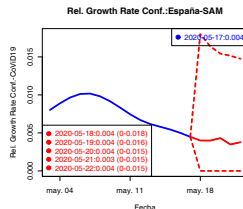
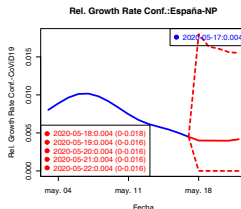
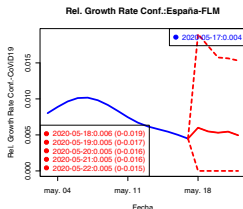
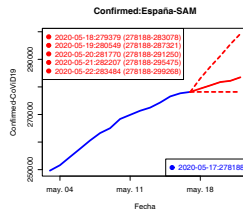
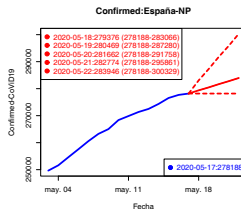
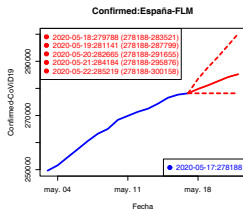
Cuadro: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.004	0.004	0.008	0.013	0.014	0.019
Andalucía	0.008	0.007	0.016	0.026	0.033	0.041
Aragón	0.008	0.008	0.017	0.027	0.033	0.042
Asturias	0.006	0.005	0.010	0.016	0.020	0.026
Islas.Baleares	0.004	0.003	0.005	0.009	0.012	0.016
Canarias	0.002	0.002	0.003	0.005	0.008	0.010
Cantabria	0.002	0.003	0.006	0.010	0.013	0.016
Castilla.La.Mancha	0.006	0.005	0.010	0.015	0.017	0.023
Castilla.y.León	0.004	0.003	0.005	0.008	0.007	0.010
Cataluña	0.002	0.004	0.008	0.008	0.005	0.006
Ceuta	0.001	0.003	0.009	0.012	0.013	0.012
Comunidad.Valenciana	0.008	0.007	0.013	0.022	0.027	0.035
Extremadura	0.001	0.000	0.001	0.001	0.002	0.004
Galicia	0.009	0.007	0.013	0.024	0.030	0.039
Madrid	0.002	0.002	0.003	0.006	0.009	0.011
Melilla	0.004	0.003	0.004	0.008	0.012	0.017
Murcia	0.015	0.014	0.027	0.045	0.056	0.072
Navarra	0.011	0.011	0.023	0.038	0.047	0.060
País.Vasco	0.009	0.007	0.014	0.023	0.028	0.037
La.Rioja	0.001	0.001	0.001	0.002	0.004	0.005

Cuadro: Previsión Ratio Incr. Confirmados: Mod. Aditivo - Horizonte 1 – 5 días.

Confirmados: España

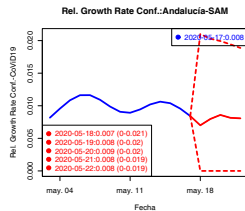
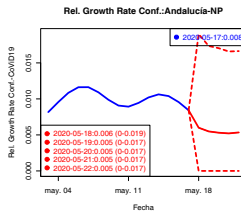
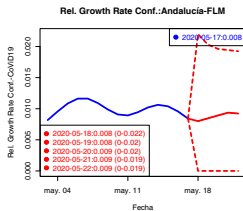
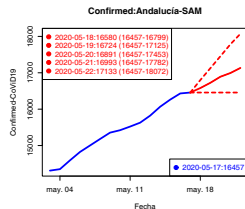
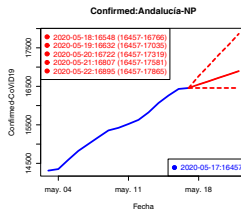
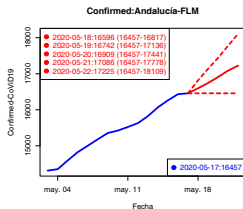


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Andalucía

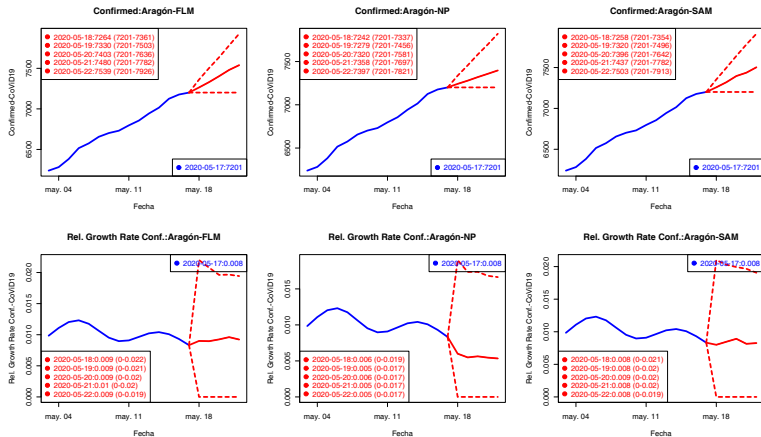


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón



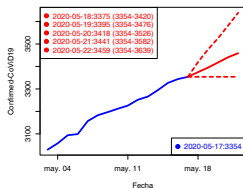
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

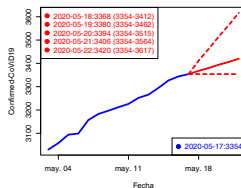
◀ Fallecidos

Confirmados: Asturias

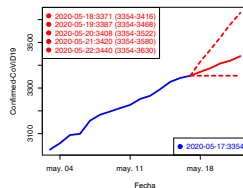
Confirmed: Asturias-FLM



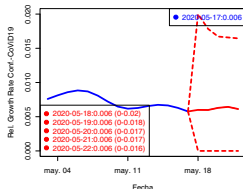
Confirmed: Asturias-NP



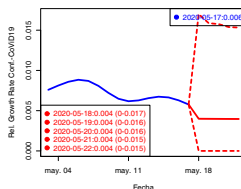
Confirmed: Asturias-SAM



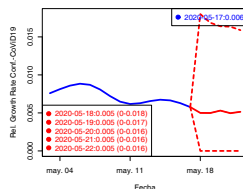
Rel. Growth Rate Conf.: Asturias-FLM



Rel. Growth Rate Conf.: Asturias-NP



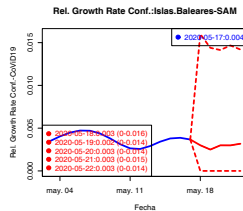
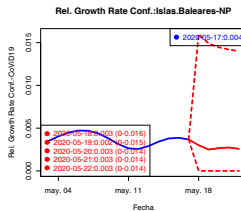
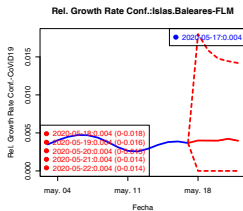
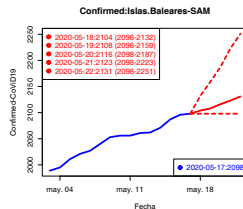
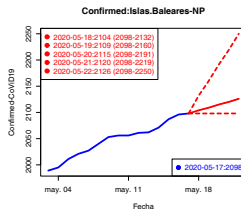
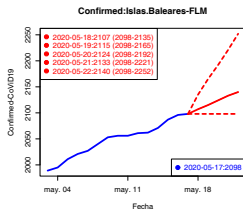
Rel. Growth Rate Conf.: Asturias-SAM



Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

[◀ Confirmados](#)
[◀ Fallecidos](#)

Confirmados: Islas Baleares

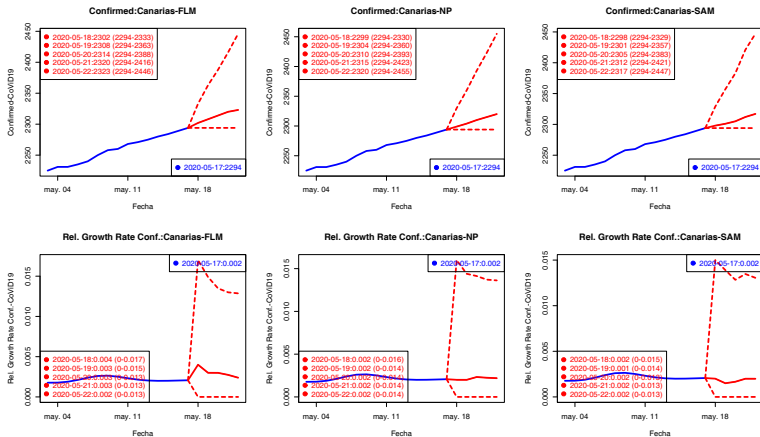


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

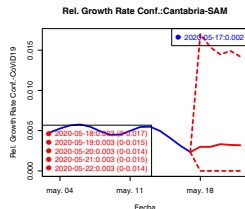
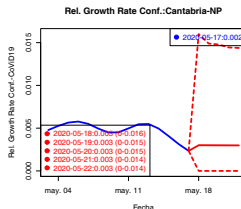
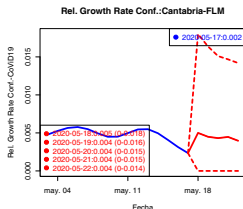
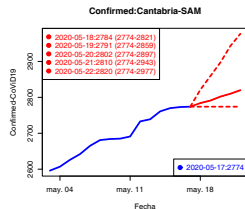
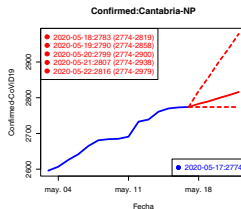
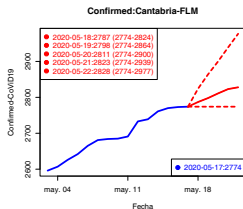


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

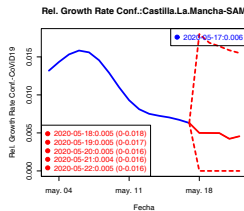
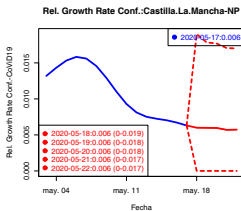
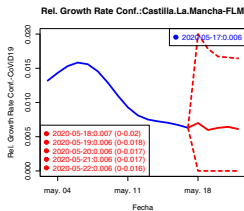
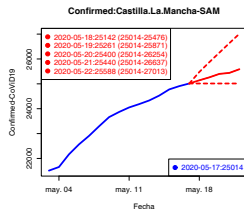
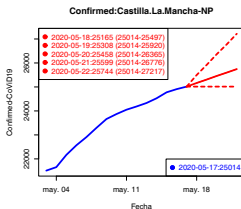
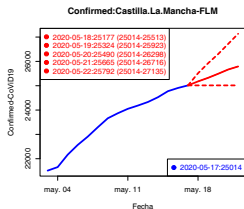
◀ Fallecidos

Confirmados: Cantabria



Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

Confirmados: Castilla-La Mancha

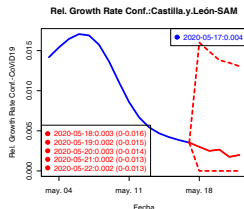
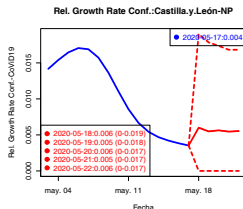
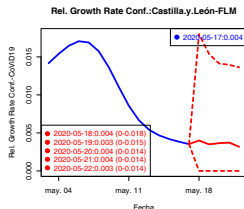
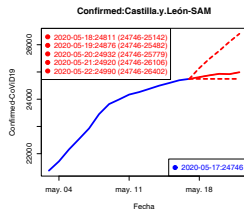
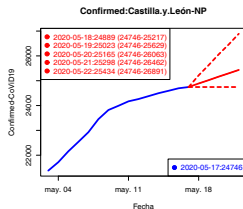
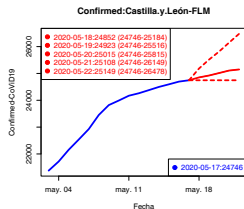


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

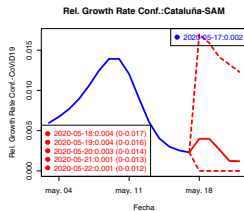
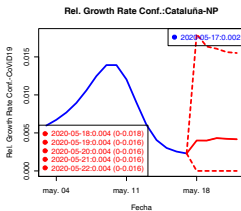
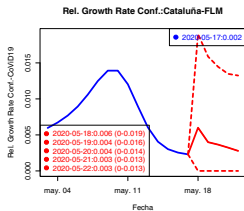
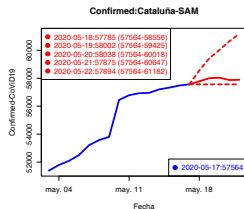
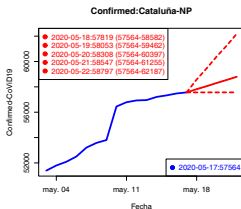
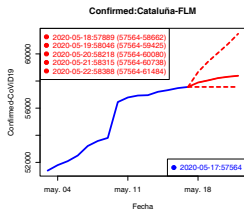


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña



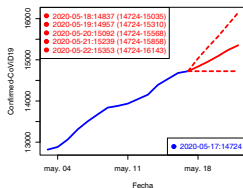
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

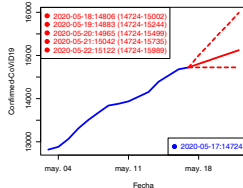
← Fallecidos

Confirmados: C. Valenciana

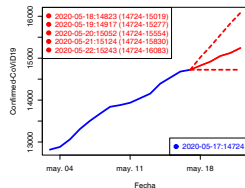
Confirmed:Comunidad.Valenciana-FLM



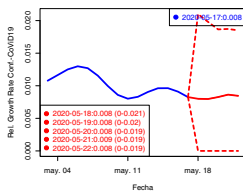
Confirmed:Comunidad.Valenciana-NP



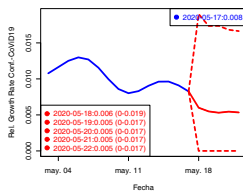
Confirmed:Comunidad.Valenciana-SAM



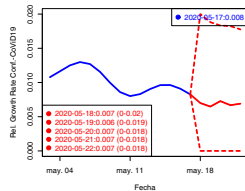
Rel. Growth Rate Conf.:Comunidad.Valenciana-FLM



Rel. Growth Rate Conf.:Comunidad.Valenciana-NP



Rel. Growth Rate Conf.:Comunidad.Valenciana-SAM

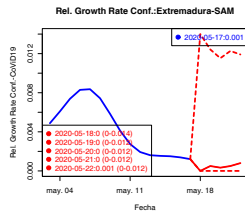
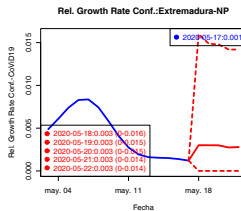
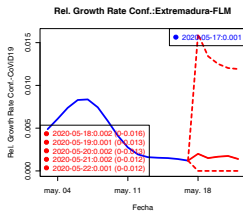
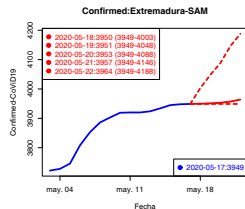
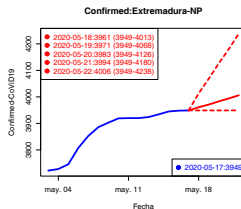
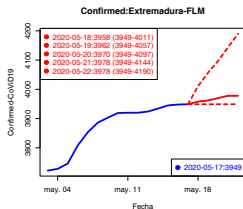


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura



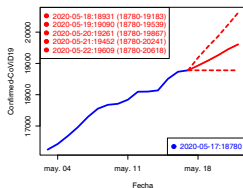
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

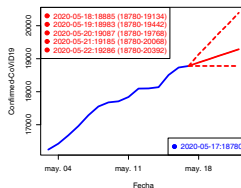
◀ Fallecidos

Confirmados: País Vasco

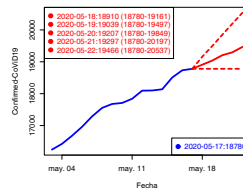
Confirmed:País.Vasco-FLM



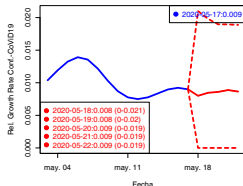
Confirmed:País.Vasco-NP



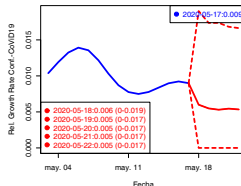
Confirmed:País.Vasco-SAM



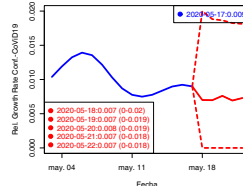
Rel. Growth Rate Conf.:País.Vasco-FLM



Rel. Growth Rate Conf.:País.Vasco-NP



Rel. Growth Rate Conf.:País.Vasco-SAM

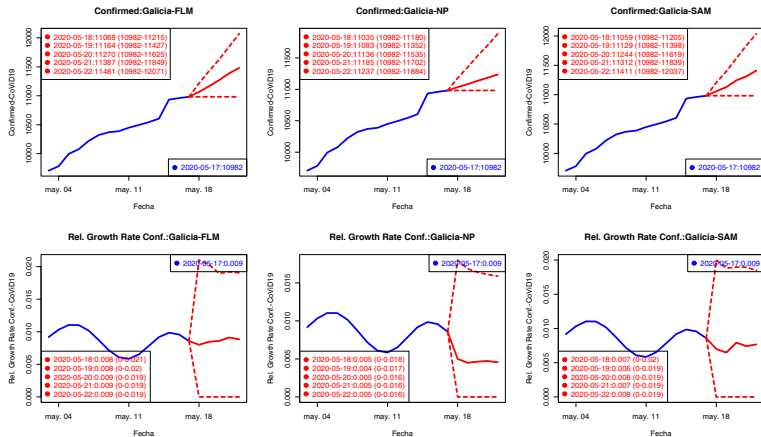


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Galicia

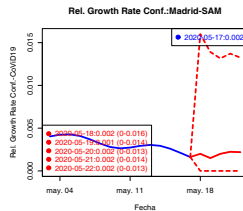
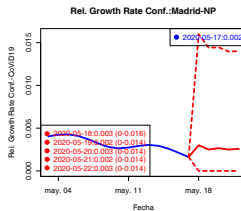
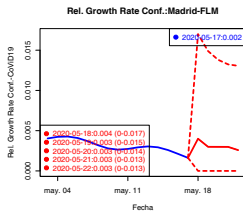
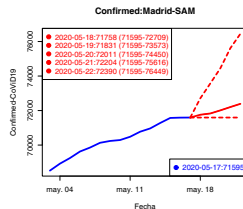
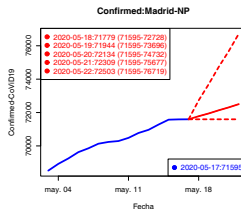
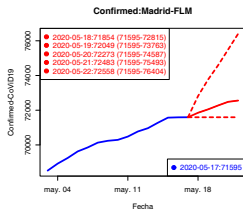


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

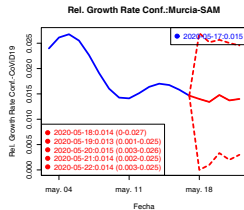
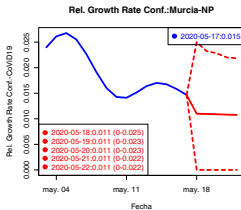
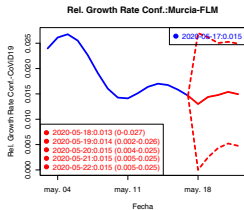
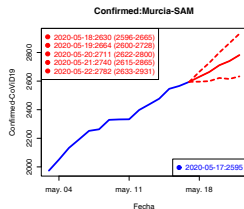
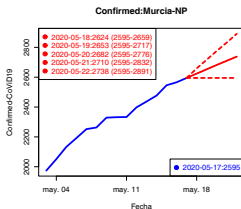
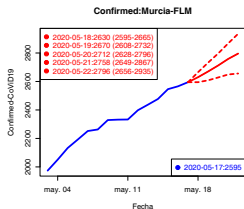


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia



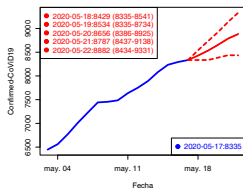
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

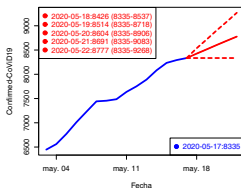
◀ Fallecidos

Confirmados: Navarra

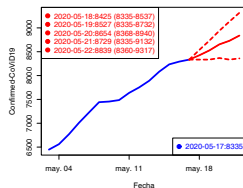
Confirmed:Navarra-FLM



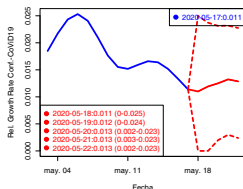
Confirmed:Navarra-NP



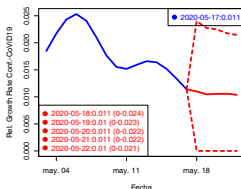
Confirmed:Navarra-SAM



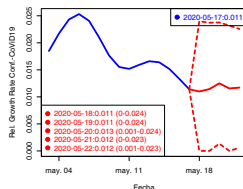
Rel. Growth Rate Conf.:Navarra-FLM



Rel. Growth Rate Conf.:Navarra-NP



Rel. Growth Rate Conf.:Navarra-SAM

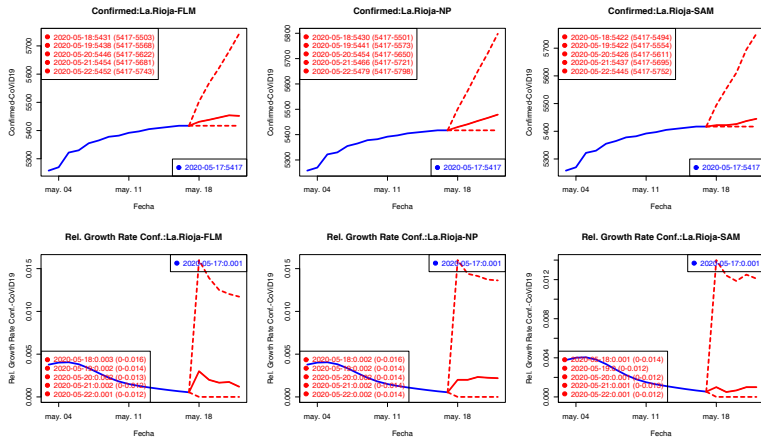


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: La Rioja



Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Table of Contents

- 1 Casos Confirmados
 - Predicciones
- 2 Fallecidos
 - Predicciones Fallecidos
- 3 Panorama internacional

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 3777

Países/Regiones distintos incorporados: 86

Predicciones:

▶ España

▶ Andalucía

▶ Aragón

▶ Asturias

▶ I. Baleares

▶ Canarias

▶ Cantabria

▶ Castilla-La Mancha

▶ Castilla y León

▶ Cataluña

▶ C. Valenciana

▶ Extremadura

▶ País Vasco

▶ Galicia

▶ Madrid

▶ Murcia

▶ Navarra

▶ La Rioja

▶ Mod Lineal

▶ Mod NP

▶ Mod Aditivo

	σ_R^2			$\sigma_R^2(rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0.001	0.001	0	0	0	0	0.59	0.582	0.638
H2	0.002	0.002	0.002	0.002	0.002	0.001	0.635	0.623	0.707
H3	0.003	0.003	0.002	0.003	0.003	0.002	0.71	0.691	0.779
H4	0.005	0.006	0.004	0.007	0.006	0.004	0.742	0.713	0.806
H5	0.007	0.008	0.005	0.009	0.009	0.006	0.772	0.735	0.839

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	27709	27872	28030	28141	28235	28312
Andalucía	1358	1365	1372	1377	1382	1387
Aragón	838	841	844	847	848	850
Asturias	317	320	322	324	327	328
Islas Baleares	218	219	221	222	223	224
Canarias	153	154	154	155	155	155
Cantabria	207	208	209	210	210	210
Castilla La Mancha	2898	2917	2935	2948	2960	2969
Castilla y León	1953	1962	1970	1975	1977	1980
Cataluña	5956	6009	6061	6100	6132	6158
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1370	1378	1385	1391	1396	1401
Extremadura	500	503	506	508	510	511
Galicia	607	610	612	614	615	616
Madrid	8863	8903	8943	8968	8986	8999
Melilla	2	2	2	2	2	2
Murcia	145	146	147	148	149	149
Navarra	503	506	508	510	511	513
País Vasco	1466	1474	1482	1488	1493	1497
La Rioja	351	352	353	354	354	355

Cuadro: Previsión fallecidos: Mod. lineal - Horizonte 1 – 5 días.

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	27709	28034	28352	28663	28951	29242
Andalucía	1358	1374	1389	1404	1418	1432
Aragón	838	848	858	867	876	885
Asturias	317	321	325	328	332	335
Islas Baleares	218	221	223	226	228	230
Canarias	153	155	157	158	160	161
Cantabria	207	209	212	214	216	218
Castilla La Mancha	2898	2933	2968	3001	3033	3064
Castilla y León	1953	1976	1998	2019	2039	2060
Cataluña	5956	6029	6102	6172	6238	6304
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1370	1386	1401	1417	1431	1445
Extremadura	500	506	512	517	522	528
Galicia	607	614	621	627	633	640
Madrid	8863	8964	9062	9159	9247	9338
Melilla	2	2	2	2	2	2
Murcia	145	147	148	150	151	153
Navarra	503	509	515	520	525	531
País Vasco	1466	1483	1500	1517	1532	1548
La Rioja	351	355	359	363	366	370

Cuadro: Previsión fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	27709	27909	27945	28202	28263	28488
Andalucía	1358	1369	1374	1388	1391	1404
Aragón	838	843	846	852	854	859
Asturias	317	320	322	325	327	330
Islas.Baleares	218	220	220	223	223	225
Canarias	153	154	154	156	156	157
Cantabria	207	209	209	211	211	213
Castilla.La.Mancha	2898	2915	2919	2941	2947	2964
Castilla.y.León	1953	1961	1954	1966	1962	1972
Cataluña	5956	6002	6006	6065	6114	6170
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1370	1381	1386	1399	1401	1413
Extremadura	500	503	503	507	507	512
Galicia	607	612	614	620	619	624
Madrid	8863	8926	8939	9022	9017	9089
Melilla	2	2	2	2	2	2
Murcia	145	146	147	149	149	150
Navarra	503	507	508	512	513	517
País.Vasco	1466	1476	1481	1494	1496	1507
La.Rioja	351	353	353	356	355	358

Cuadro: Previsión fallecidos: Mod. Aditivo - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.003	0.006	0.012	0.016	0.019	0.022
Andalucía	0.003	0.005	0.010	0.014	0.018	0.022
Aragón	0.001	0.004	0.008	0.010	0.012	0.014
Asturias	0.007	0.008	0.017	0.023	0.030	0.035
Islas.Baleares	0.003	0.006	0.013	0.018	0.023	0.027
Canarias	0.004	0.004	0.009	0.011	0.014	0.016
Cantabria	0.002	0.005	0.010	0.013	0.015	0.016
Castilla.La.Mancha	0.004	0.006	0.013	0.017	0.021	0.025
Castilla.y.León	0.004	0.005	0.009	0.011	0.012	0.014
Cataluña	0.006	0.009	0.018	0.024	0.030	0.034
Ceuta	0.000	0.002	0.004	0.003	0.002	0.000
Comunidad.Valenciana	0.003	0.006	0.011	0.015	0.019	0.022
Extremadura	0.004	0.006	0.011	0.015	0.019	0.023
Galicia	0.002	0.004	0.008	0.011	0.013	0.015
Madrid	0.002	0.005	0.009	0.012	0.014	0.015
Melilla	0.000	0.003	0.005	0.006	0.006	0.006
Murcia	0.005	0.007	0.013	0.019	0.024	0.029
Navarra	0.002	0.005	0.010	0.013	0.016	0.019
País.Vasco	0.003	0.006	0.011	0.015	0.018	0.021
La.Rioja	0.003	0.003	0.007	0.009	0.010	0.011

Cuadro: Previsión Ratio Incr. Fallecidos: Mod. lineal - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	0.003	0.012	0.023	0.034	0.045	0.055
Andalucía	0.003	0.012	0.023	0.034	0.044	0.055
Aragón	0.001	0.012	0.024	0.035	0.045	0.056
Asturias	0.007	0.012	0.024	0.035	0.046	0.057
Islas.Baleares	0.003	0.012	0.024	0.035	0.045	0.056
Canarias	0.004	0.012	0.023	0.034	0.045	0.055
Cantabria	0.002	0.011	0.022	0.033	0.043	0.053
Castilla.La.Mancha	0.004	0.012	0.024	0.036	0.046	0.057
Castilla.y.León	0.004	0.012	0.023	0.034	0.044	0.055
Cataluña	0.006	0.012	0.024	0.036	0.047	0.058
Ceuta	0.000	0.011	0.021	0.032	0.041	0.050
Comunidad.Valenciana	0.003	0.012	0.023	0.034	0.044	0.055
Extremadura	0.004	0.012	0.023	0.034	0.044	0.055
Galicia	0.002	0.011	0.022	0.033	0.043	0.054
Madrid	0.002	0.011	0.022	0.033	0.043	0.054
Melilla	0.000	0.011	0.021	0.032	0.041	0.050
Murcia	0.005	0.012	0.023	0.034	0.044	0.054
Navarra	0.002	0.012	0.023	0.034	0.044	0.055
País.Vasco	0.003	0.012	0.023	0.035	0.045	0.056
La.Rioja	0.003	0.011	0.022	0.033	0.043	0.053

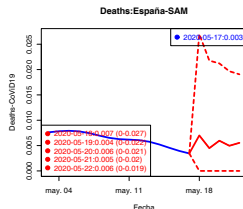
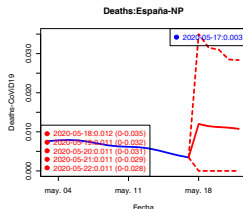
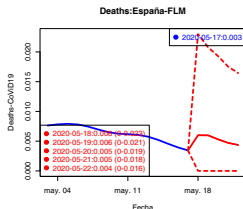
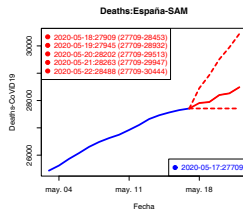
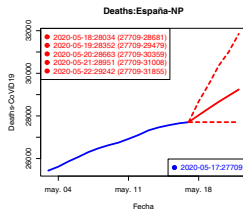
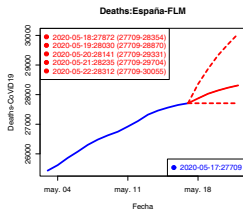
Cuadro: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.003	0.007	0.009	0.018	0.020	0.028
Andalucía	0.003	0.008	0.012	0.022	0.024	0.034
Aragón	0.001	0.006	0.010	0.017	0.019	0.025
Asturias	0.007	0.010	0.015	0.025	0.030	0.040
Islas.Baleares	0.003	0.007	0.011	0.022	0.023	0.031
Canarias	0.004	0.006	0.008	0.017	0.017	0.026
Cantabria	0.002	0.009	0.010	0.019	0.020	0.028
Castilla.La.Mancha	0.004	0.006	0.007	0.015	0.017	0.023
Castilla.y.León	0.004	0.004	0.001	0.006	0.005	0.010
Cataluña	0.006	0.008	0.008	0.018	0.027	0.036
Ceuta	0.000	0.004	0.000	0.004	0.000	0.002
Comunidad.Valenciana	0.003	0.008	0.011	0.021	0.023	0.031
Extremadura	0.004	0.005	0.005	0.015	0.015	0.023
Galicia	0.002	0.008	0.012	0.021	0.020	0.028
Madrid	0.002	0.007	0.009	0.018	0.017	0.026
Melilla	0.000	0.007	0.008	0.017	0.012	0.020
Murcia	0.005	0.010	0.015	0.024	0.027	0.035
Navarra	0.002	0.008	0.010	0.018	0.021	0.028
País.Vasco	0.003	0.007	0.010	0.019	0.020	0.028
La.Rioja	0.003	0.005	0.005	0.014	0.012	0.021

Cuadro: Previsión Ratio Incr. Fallecidos: Mod. Aditivo - Horizonte 1 – 5 días.

Fallecidos: España

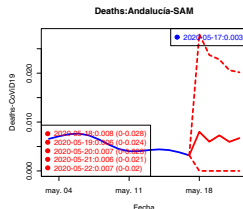
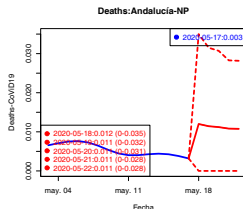
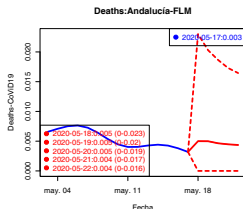
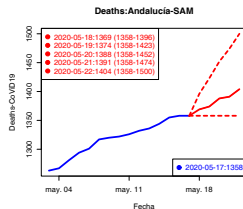
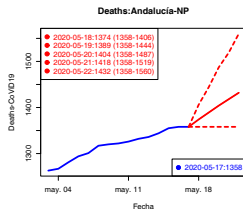
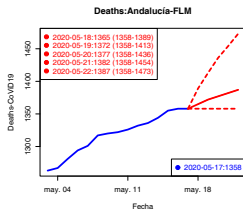


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

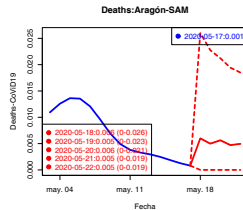
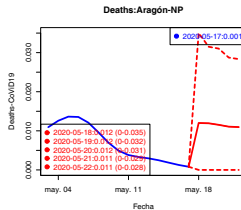
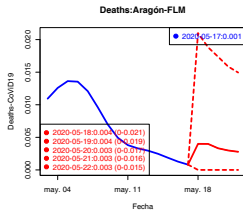
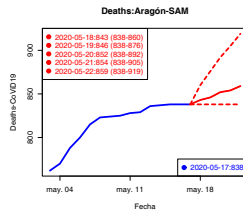
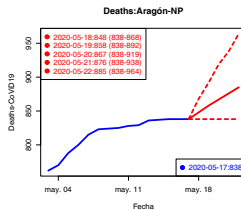
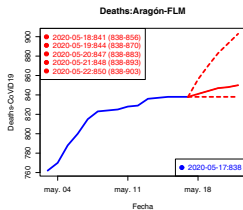
◀ Fallecidos

Fallecidos: Andalucía



Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

Fallecidos: Aragón

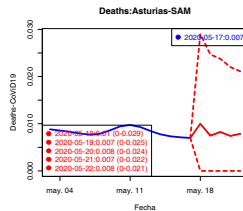
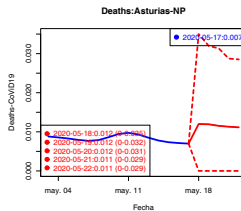
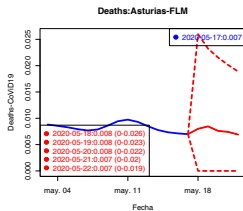
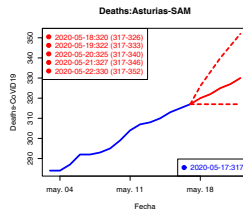
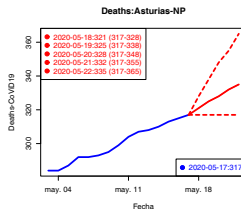
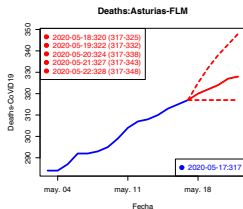


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Asturias

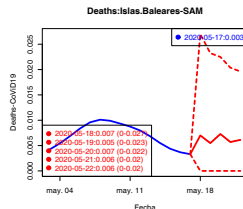
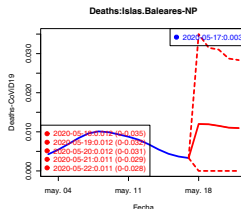
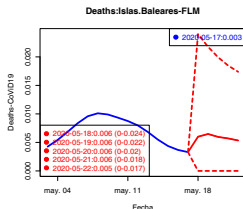
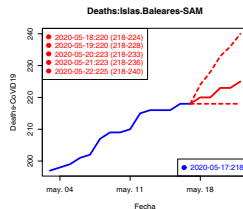
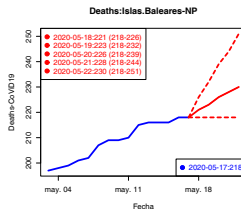
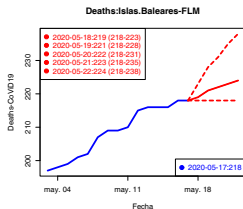


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Islas Baleares

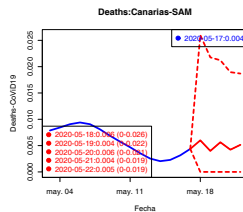
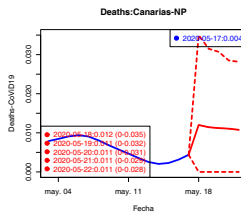
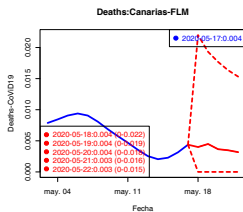
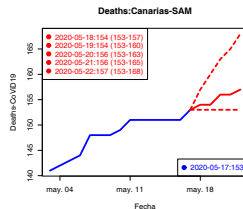
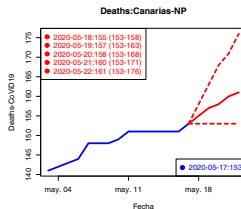
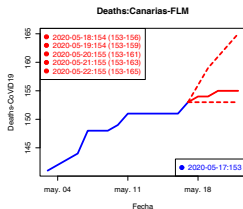


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

[◀ Fallecidos](#)

Fallecidos: Canarias

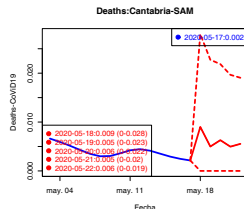
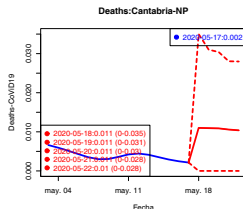
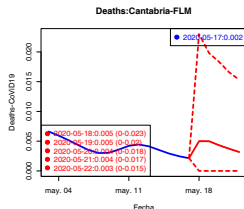
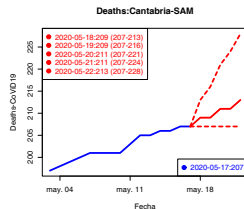
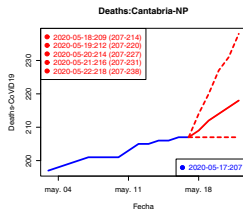
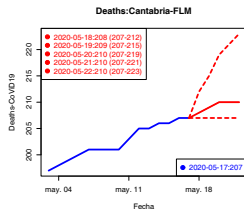


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

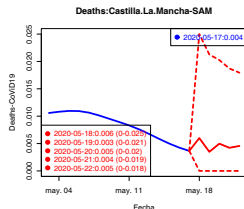
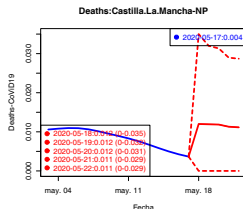
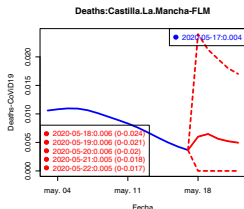
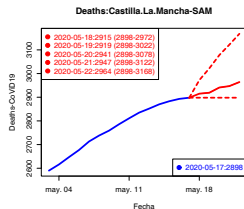
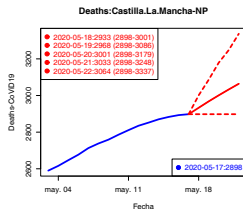
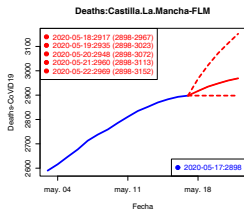
◀ Fallecidos

Fallecidos: Cantabria



Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

Fallecidos: Castilla-La Mancha

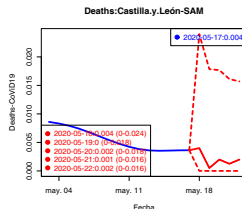
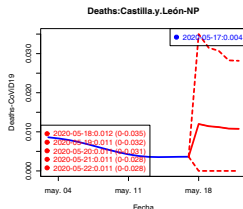
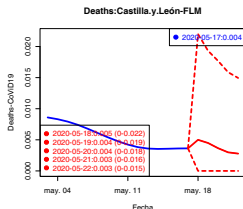
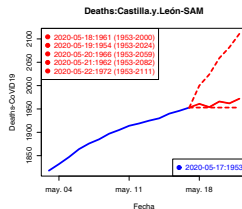
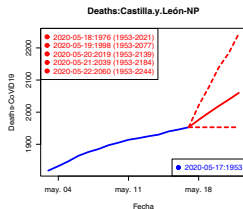
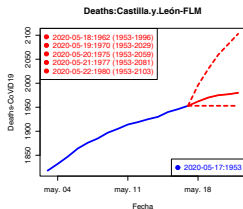


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

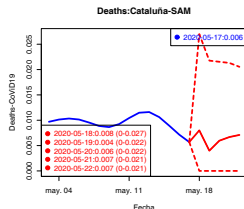
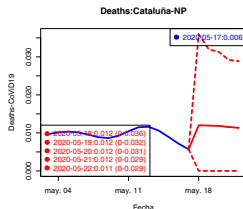
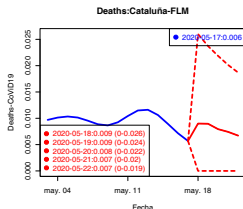
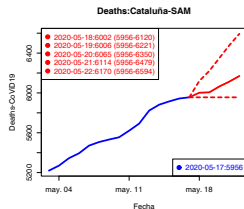
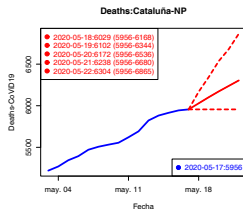
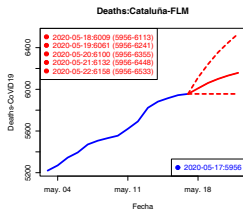


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cataluña

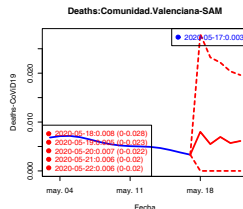
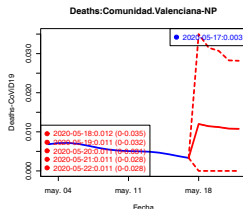
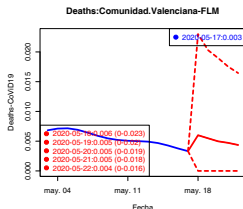
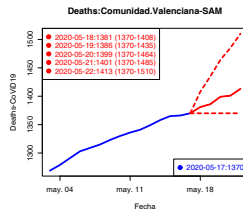
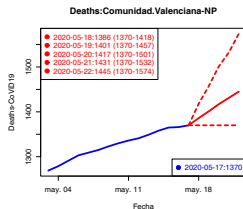
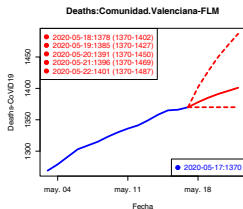


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

[◀ Fallecidos](#)

Fallecidos: C. Valenciana

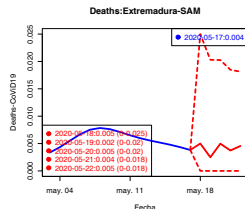
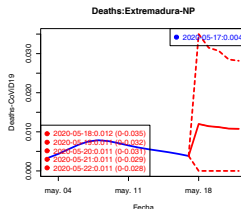
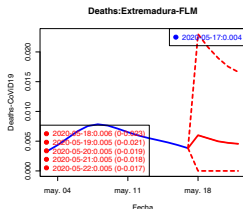
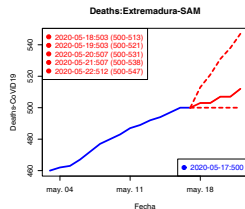
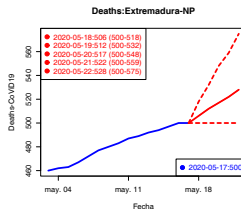
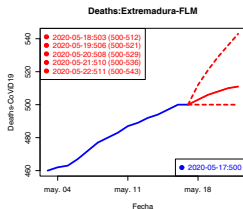


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Extremadura

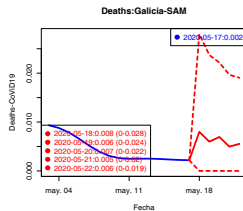
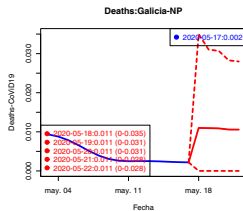
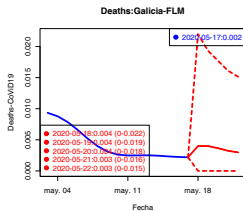
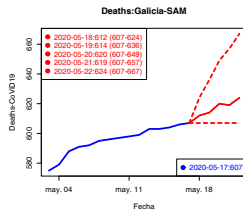
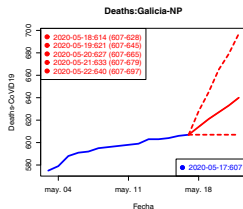
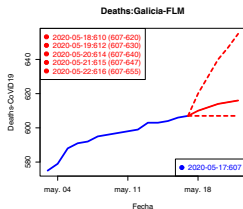


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

[◀ Fallecidos](#)

Fallecidos: Galicia

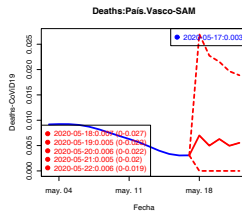
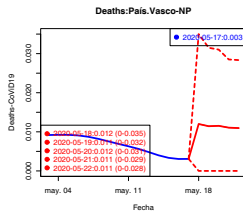
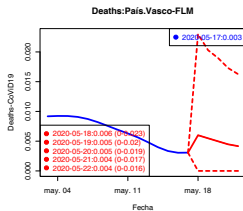
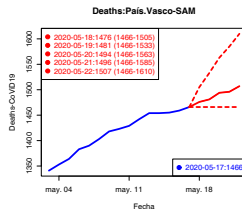
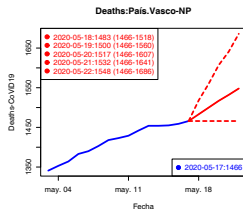
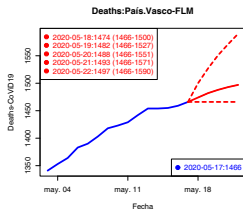


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: País Vasco

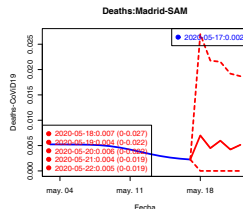
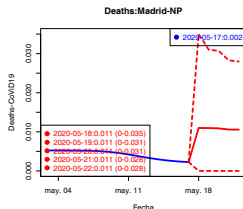
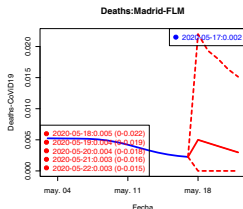
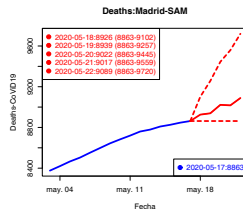
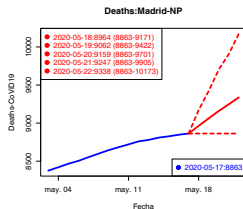
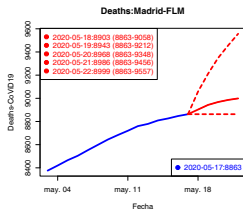


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

[◀ Fallecidos](#)

Fallecidos: Madrid

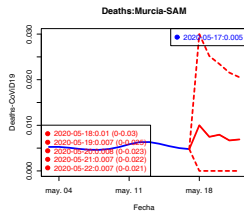
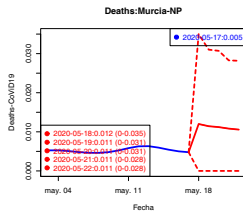
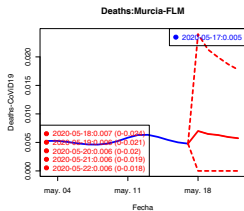
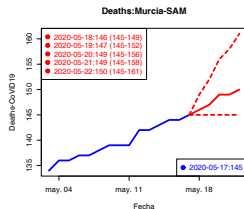
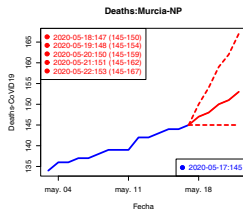
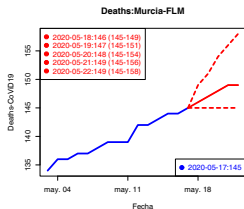


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Murcia

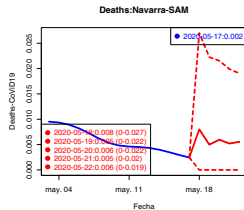
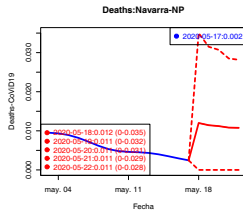
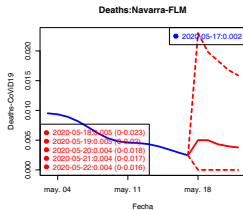
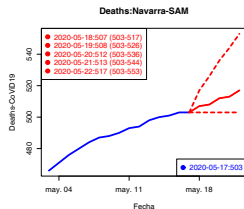
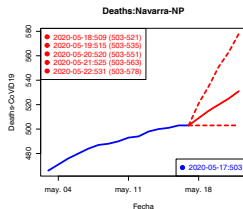
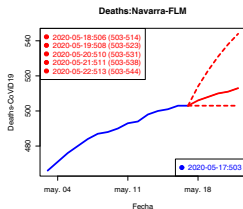


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

[◀ Fallecidos](#)

Fallecidos: Navarra

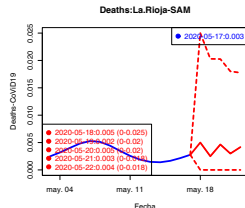
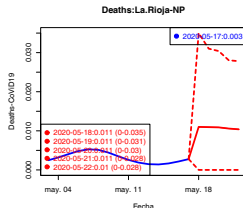
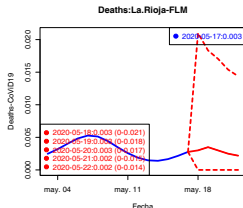
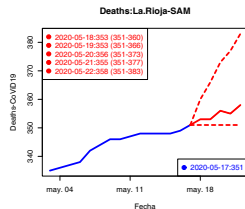
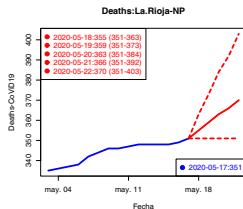
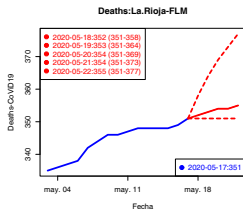


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

[◀ Fallecidos](#)

Fallecidos: La Rioja



Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

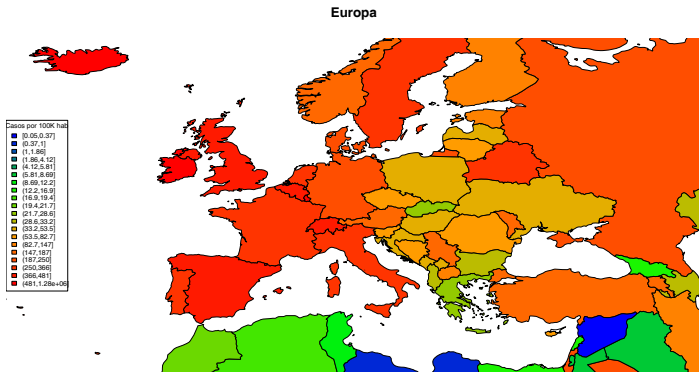
◀ Confirmados

[◀ Fallecidos](#)

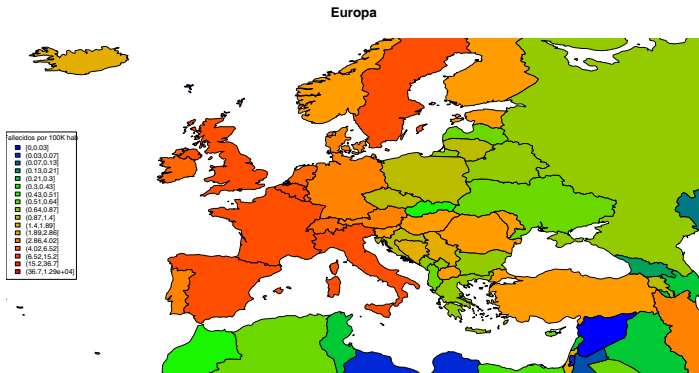
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Europa: Confirmados por 100K hab.

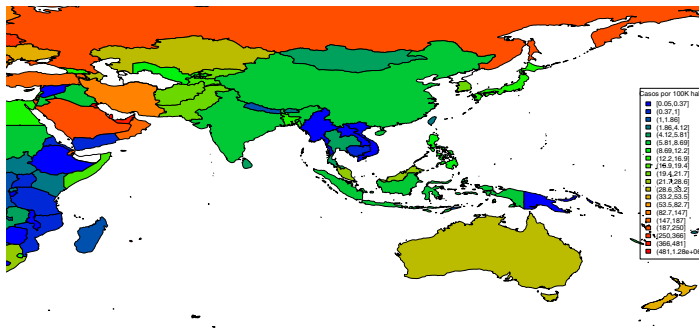


Europa: Fallecidos por 100K hab.



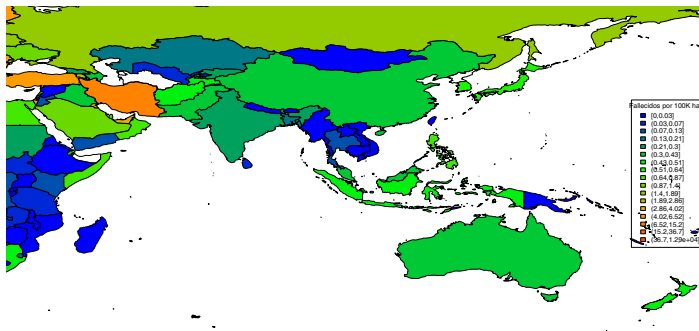
Asia y Oceanía: Casos por 100K hab.

Asia y Oceanía



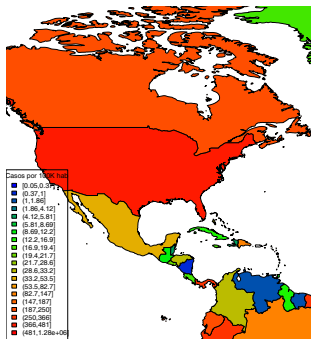
Asia y Oceanía: Fallecidos por 100K hab.

Asia y Oceanía



América: Casos por 100K hab.

América del Norte

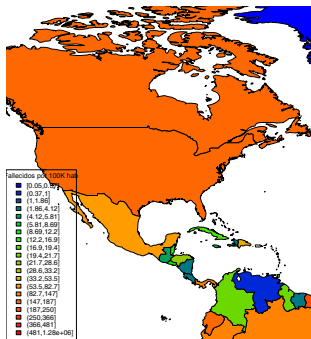


América del sur

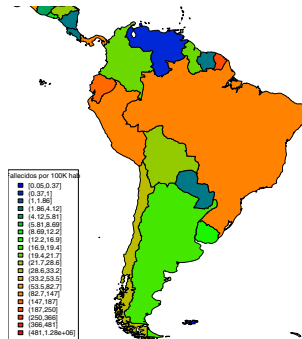


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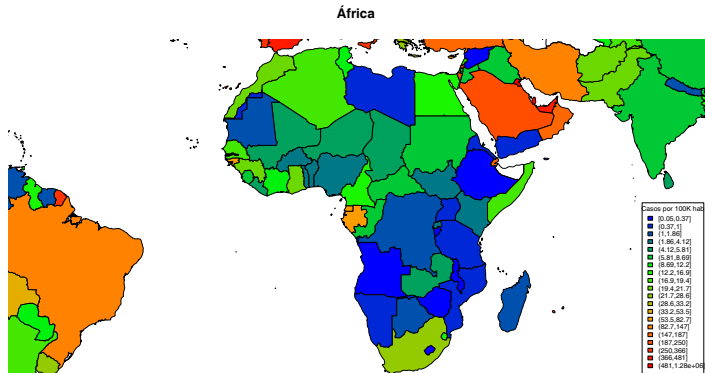
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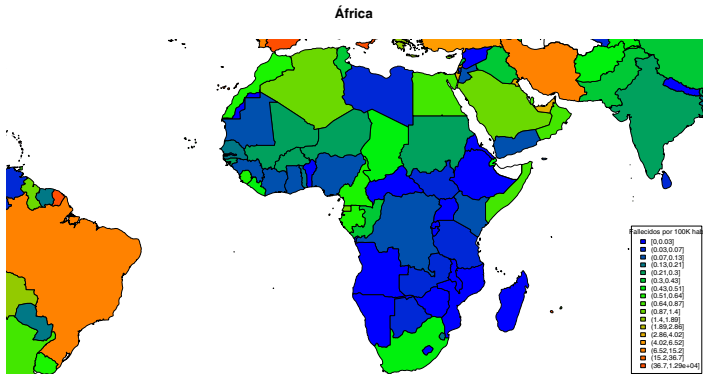
América del sur



África: Casos por 100K hab.



África: Fallecidos por 100K hab.



Breve descripción del Modelo de predicción

Objetivo: Predecir ratio de incremento de casos confirmados a 1, 2, o 3 días: $r^{(k)}(t) = \frac{x_{t+k} - x_t}{x_t + 1}$

Información usada: Pasado de esta variable suavizado (retardo 1) durante los últimos 15 días: $R^{(1)} = \{r^{(1)}(-14), \dots, r^{(1)}(0)\}$.

Datos para alimentar el modelo: https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data/csse_covid_19_time_series/. Algunas series de tiempo (como el Diamond Princess) son filtrados por inconsistencia, presunta falta de veracidad o por anormalmente valores bajos. En la predicción final se reconstruye el número de casos esperado. Se construyen tres modelos funcionales de la regresión general: $r^{(k)}(0) = f(R^{(1)}) + \epsilon$ donde la diferencia radica en la forma de la función f

- Lineal: $f(R^{(1)}) = \int_{-14}^0 R^{(1)}(t)\beta(t)dt$
- NP: f es una estimación no paramétrica tipo núcleo.
- SAM: f es una combinación aditiva de funciones suaves de las componentes principales funcionales.

Para el objetivo de predecir el ratio de incremento de fallecidos, se usa además del pasado de la propia variable, el ratio de incremento pasado de casos confirmados.