

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: 5714

Países/Regiones distintos incorporados: 161

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	0.001	0.001	0.001	0.001	0	0.001	0.555	0.74	0.571
H2	0.002	0.001	0.002	0.002	0.001	0.002	0.677	0.824	0.693
H3	0.004	0.003	0.004	0.004	0.002	0.004	0.724	0.844	0.733
H4	0.007	0.004	0.007	0.007	0.005	0.007	0.743	0.856	0.752
H5	0.012	0.007	0.011	0.012	0.008	0.011	0.746	0.862	0.756

Último dato: 2020-05-12 21:00 que se publica 2020-05-13 12:00.

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	271095	272437	273783	275111	276406	277685
Andalucía	15629	15721	15812	15902	15989	16074
Aragón	6856	6908	6959	7008	7056	7103
Asturias	3252	3268	3283	3299	3314	3329
Islas.Baleares	2063	2068	2074	2079	2084	2090
Canarias	2271	2276	2281	2286	2291	2296
Cantabria	2733	2745	2757	2769	2780	2791
Castilla.La.Mancha	24185	24384	24583	24777	24966	25150
Castilla.y.León	24262	24470	24677	24879	25075	25267
Cataluña	56923	57228	57535	57840	58140	58436
Ceuta	173	175	176	178	179	181
Comunidad.Valenciana	14045	14140	14235	14328	14418	14506
Extremadura	3920	3936	3952	3968	3984	4000
Galicia	10782	10835	10889	10942	10993	11044
Madrid	70227	70396	70568	70742	70917	71095
Melilla	132	132	133	133	133	134
Murcia	2398	2426	2453	2480	2506	2532
Navarra	7752	7849	7945	8038	8129	8218
País.Vasco	18095	18224	18353	18479	18600	18719
La.Rioja	5397	5410	5423	5436	5450	5463

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

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.006	0.009	0.017	0.025	0.032	0.039
Andalucía	0.006	0.009	0.017	0.026	0.032	0.038
Aragón	0.008	0.011	0.020	0.029	0.036	0.043
Asturias	0.006	0.008	0.015	0.022	0.027	0.032
Islas.Baleares	0.002	0.005	0.009	0.013	0.015	0.017
Canarias	0.002	0.004	0.007	0.010	0.013	0.015
Cantabria	0.006	0.007	0.014	0.020	0.025	0.029
Castilla.La.Mancha	0.009	0.011	0.022	0.034	0.043	0.052
Castilla.y.León	0.008	0.012	0.022	0.033	0.042	0.050
Cataluña	0.009	0.011	0.023	0.035	0.048	0.059
Ceuta	0.007	0.011	0.019	0.026	0.031	0.035
Comunidad.Valenciana	0.007	0.009	0.018	0.026	0.033	0.039
Extremadura	0.002	0.006	0.011	0.017	0.020	0.022
Galicia	0.005	0.008	0.016	0.023	0.028	0.033
Madrid	0.002	0.004	0.007	0.010	0.012	0.013
Melilla	0.000	0.001	0.002	0.003	0.003	0.002
Murcia	0.014	0.017	0.031	0.045	0.056	0.068
Navarra	0.014	0.018	0.035	0.049	0.062	0.073
País.Vasco	0.009	0.012	0.023	0.033	0.041	0.049
La.Rioja	0.001	0.004	0.006	0.009	0.010	0.010

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	0.006	0.005	0.010	0.015	0.020	0.024
Andalucía	0.006	0.006	0.012	0.017	0.023	0.028
Aragón	0.008	0.008	0.015	0.022	0.029	0.036
Asturias	0.006	0.005	0.010	0.014	0.019	0.024
Islas.Baleares	0.002	0.003	0.005	0.008	0.010	0.013
Canarias	0.002	0.002	0.004	0.006	0.009	0.011
Cantabria	0.006	0.004	0.009	0.013	0.017	0.021
Castilla.La.Mancha	0.009	0.008	0.016	0.024	0.032	0.040
Castilla.y.León	0.008	0.009	0.017	0.025	0.034	0.041
Cataluña	0.009	0.005	0.011	0.016	0.021	0.027
Ceuta	0.007	0.009	0.018	0.027	0.036	0.044
Comunidad.Valenciana	0.007	0.007	0.014	0.020	0.027	0.033
Extremadura	0.002	0.004	0.008	0.012	0.016	0.020
Galicia	0.005	0.005	0.010	0.015	0.020	0.024
Madrid	0.002	0.002	0.005	0.007	0.010	0.012
Melilla	0.000	0.002	0.005	0.008	0.010	0.013
Murcia	0.014	0.012	0.023	0.034	0.045	0.056
Navarra	0.014	0.013	0.025	0.037	0.049	0.060
País.Vasco	0.009	0.007	0.014	0.021	0.028	0.034
La.Rioja	0.001	0.002	0.005	0.007	0.010	0.012

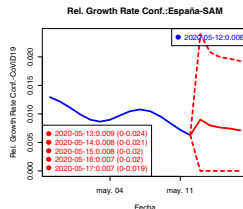
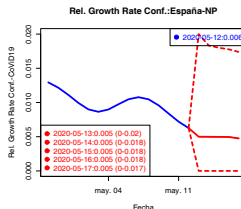
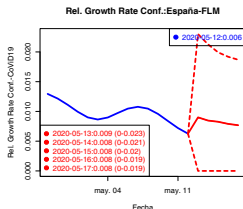
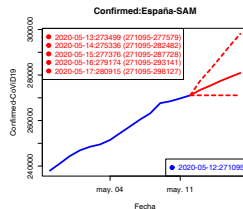
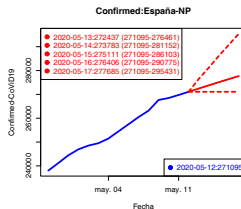
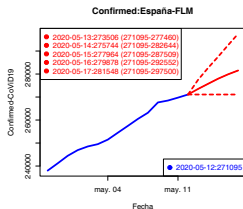
Cuadro: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.006	0.009	0.016	0.023	0.030	0.036
Andalucía	0.006	0.009	0.015	0.022	0.028	0.033
Aragón	0.008	0.010	0.016	0.023	0.027	0.032
Asturias	0.006	0.007	0.011	0.016	0.020	0.024
Islas.Baleares	0.002	0.004	0.006	0.010	0.012	0.015
Canarias	0.002	0.002	0.005	0.007	0.010	0.013
Cantabria	0.006	0.006	0.010	0.014	0.016	0.018
Castilla.La.Mancha	0.009	0.011	0.022	0.033	0.042	0.050
Castilla.y.León	0.008	0.013	0.021	0.031	0.040	0.047
Cataluña	0.009	0.012	0.027	0.040	0.053	0.070
Ceuta	0.007	0.011	0.012	0.013	0.013	0.011
Comunidad.Valenciana	0.007	0.009	0.016	0.023	0.029	0.034
Extremadura	0.002	0.006	0.010	0.014	0.017	0.019
Galicia	0.005	0.009	0.013	0.018	0.022	0.024
Madrid	0.002	0.003	0.004	0.005	0.007	0.008
Melilla	0.000	0.000	0.000	0.000	0.000	0.000
Murcia	0.014	0.020	0.029	0.039	0.047	0.052
Navarra	0.014	0.022	0.032	0.044	0.053	0.060
País.Vasco	0.009	0.012	0.019	0.028	0.033	0.039
La.Rioja	0.001	0.003	0.002	0.003	0.005	0.005

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

Confirmados: España

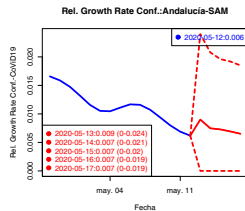
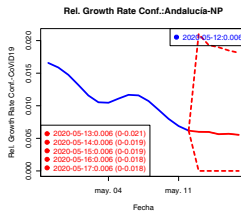
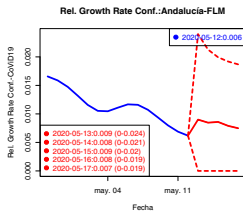
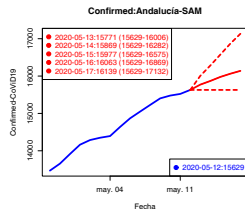
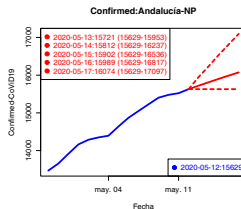
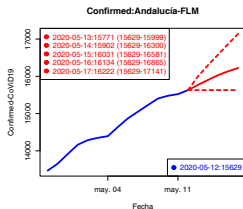


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Andalucía

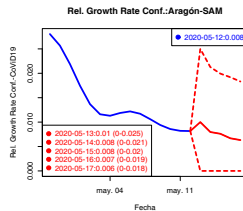
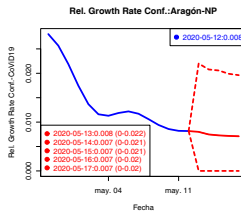
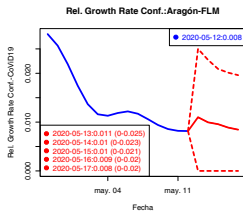
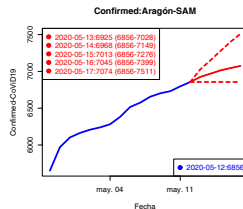
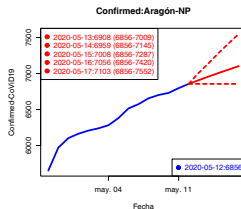
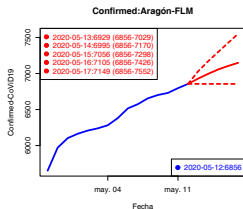


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

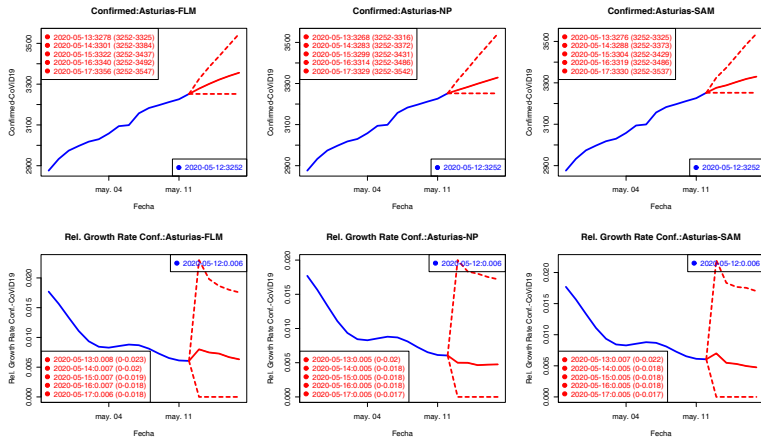


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

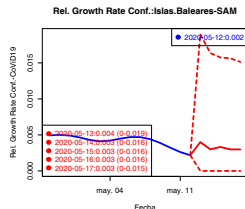
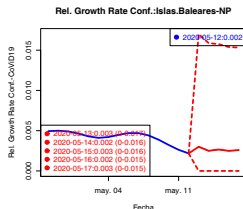
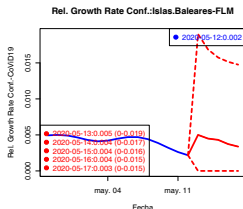
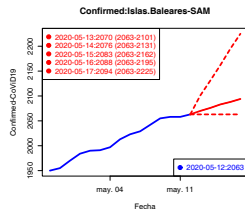
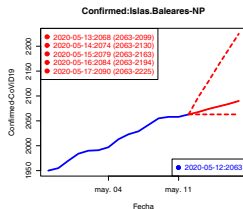
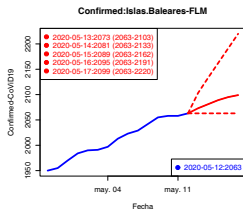


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

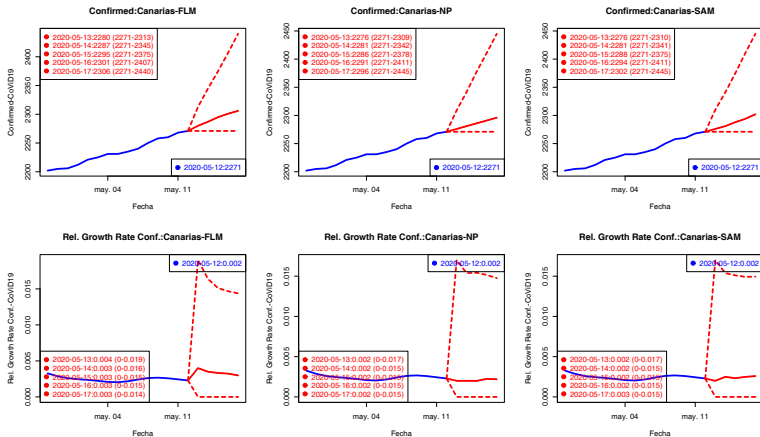


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Canarias

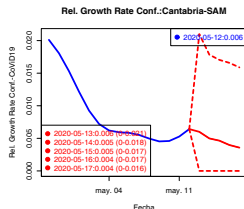
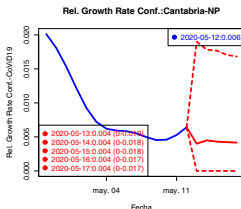
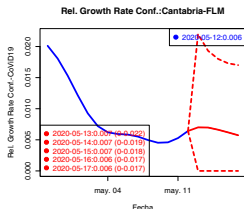
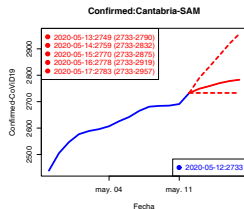
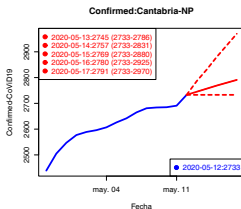
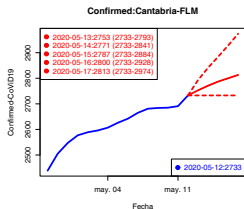


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria



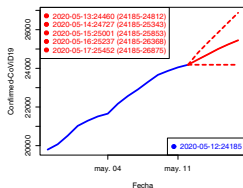
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

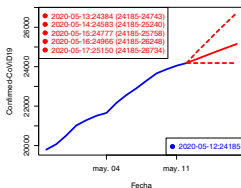
◀ Fallecidos

Confirmados: Castilla-La Mancha

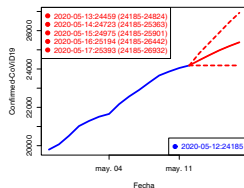
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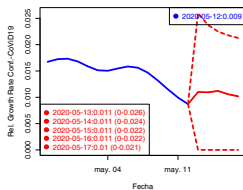
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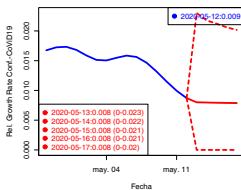
Confirmed:Castilla.La.Mancha-SAM



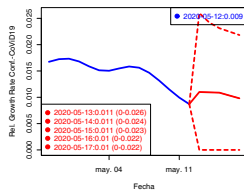
Rel. Growth Rate Conf.:Castilla.La.Mancha-FLM



Rel. Growth Rate Conf.:Castilla.La.Mancha-NP



Rel. Growth Rate Conf.:Castilla.La.Mancha-SAM



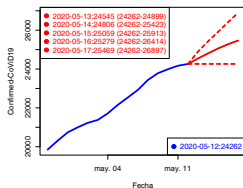
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

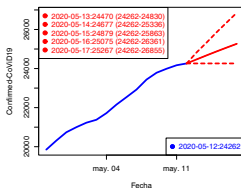
◀ Fallecidos

Confirmados: Castilla y León

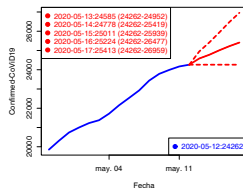
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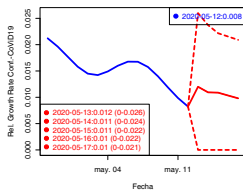
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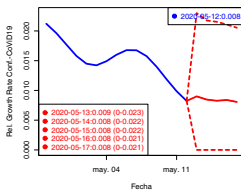
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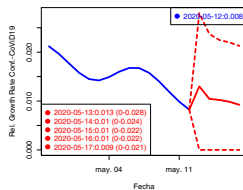
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Rel. Growth Rate Conf.:Castilla.y.León-NP



Rel. Growth Rate Conf.:Castilla.y.León-SAM



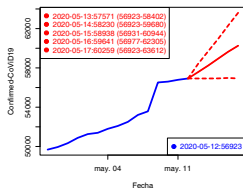
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

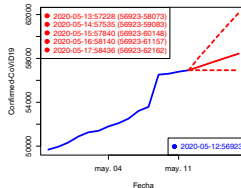
◀ Fallecidos

Confirmados: Cataluña

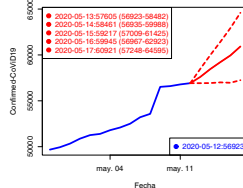
Confirmed:Cataluña-FLM



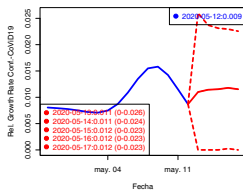
Confirmed:Cataluña-NP



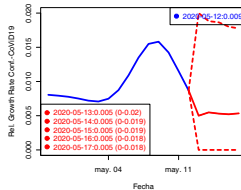
Confirmed:Cataluña-SAM



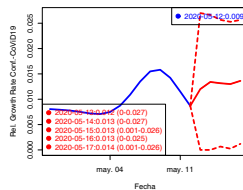
Rel. Growth Rate Conf.:Cataluña-FLM



Rel. Growth Rate Conf.:Cataluña-NP



Rel. Growth Rate Conf.:Cataluña-SAM



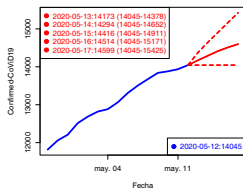
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

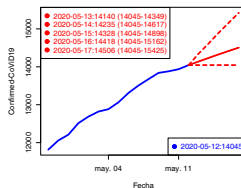
◀ Fallecidos

Confirmados: C. Valenciana

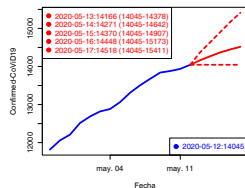
Confirmed:Comunidad.Valenciana-FLM



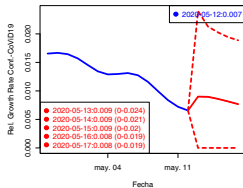
Confirmed:Comunidad.Valenciana-NP



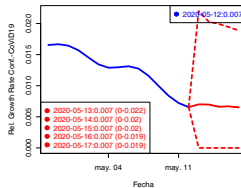
Confirmed:Comunidad.Valenciana-SAM



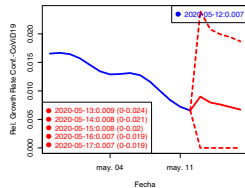
Rel. Growth Rate Conf.:Comunidad.Valenciana-FLM



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



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

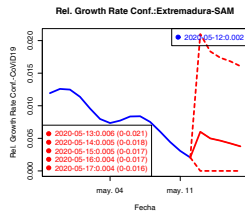
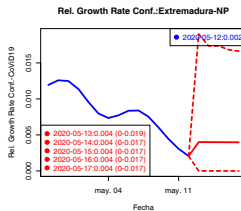
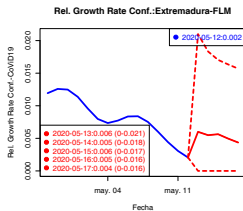
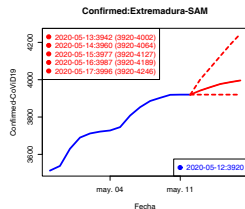
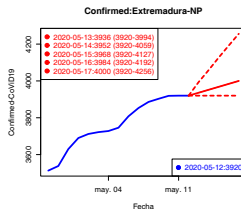
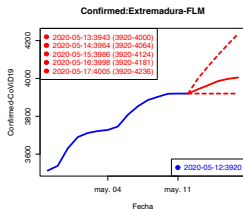


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura

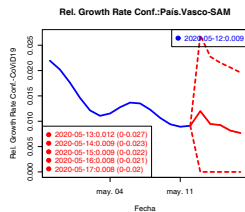
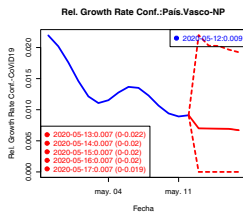
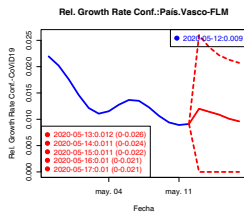
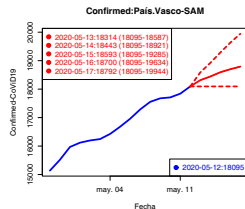
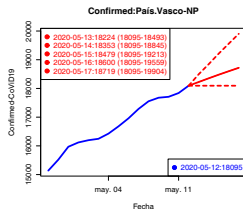
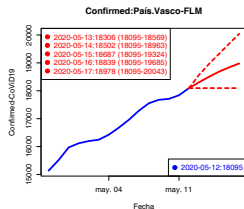


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: País Vasco

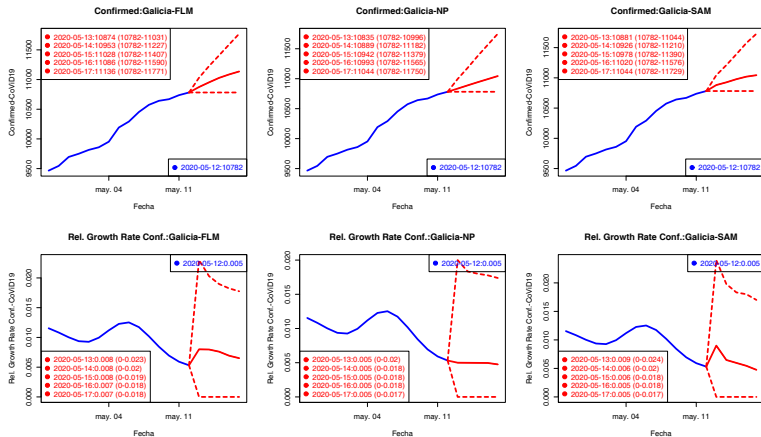


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Galicia

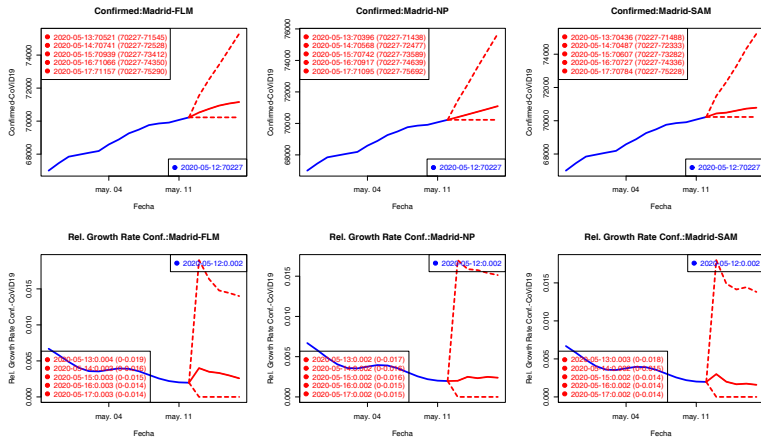


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

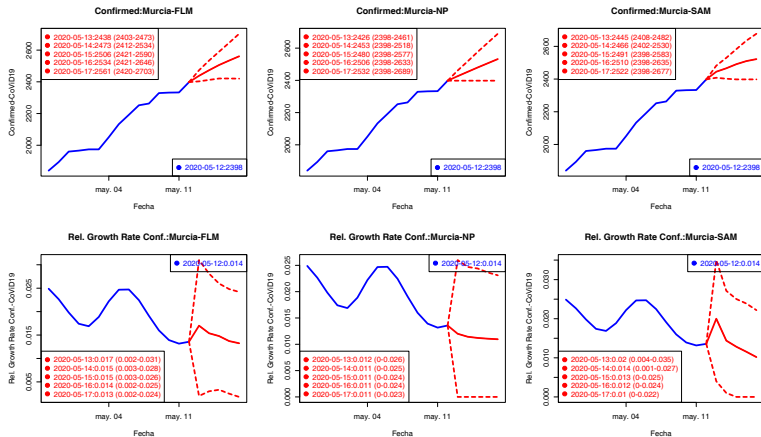


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

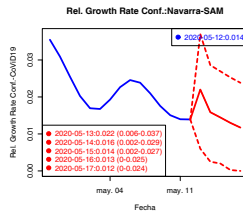
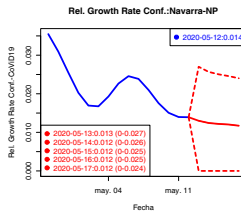
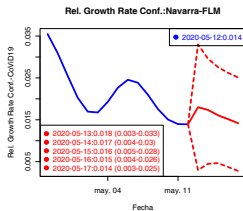
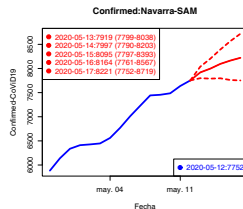
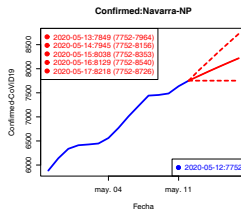
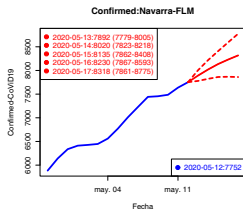


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Navarra

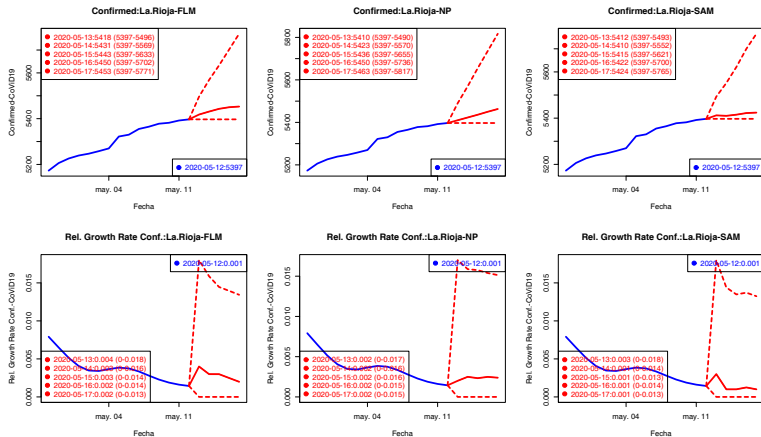


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: La Rioja



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

◀ Confirmados

◀ Fallecidos

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

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 6762

Países/Regiones distintos incorporados: 83

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	0.001	0.001	0.001	0.001	0.524	0.515	0.56
H2	0.002	0.002	0.002	0.002	0.002	0.002	0.633	0.619	0.686
H3	0.004	0.004	0.003	0.004	0.004	0.003	0.688	0.67	0.743
H4	0.006	0.006	0.005	0.007	0.007	0.005	0.724	0.701	0.783
H5	0.009	0.01	0.007	0.013	0.011	0.009	0.74	0.713	0.8

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	27104	27335	27534	27698	27825	27942
Andalucía	1332	1343	1351	1358	1362	1365
Aragón	829	836	842	847	851	855
Asturias	307	310	313	315	318	320
Islas.Baleares	215	217	220	221	223	224
Canarias	151	152	153	154	155	156
Cantabria	205	206	207	208	209	209
Castilla.La.Mancha	2835	2864	2890	2914	2934	2953
Castilla.y.León	1919	1934	1945	1955	1962	1967
Cataluña	5692	5749	5803	5852	5894	5936
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1341	1351	1360	1366	1371	1375
Extremadura	489	493	497	500	502	504
Galicia	597	605	611	614	613	611
Madrid	8760	8822	8872	8912	8940	8966
Melilla	2	2	2	2	2	2
Murcia	142	143	144	144	145	145
Navarra	494	498	501	504	505	506
País.Vasco	1442	1455	1467	1476	1484	1491
La.Rioja	348	350	352	354	355	355

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	27104	27471	27821	28152	28469	28779
Andalucía	1332	1350	1367	1384	1400	1415
Aragón	829	840	851	861	871	880
Asturias	307	311	315	319	323	327
Islas Baleares	215	218	221	224	226	229
Canarias	151	153	155	157	159	160
Cantabria	205	208	210	213	215	217
Castilla La Mancha	2835	2875	2913	2949	2984	3017
Castilla y León	1919	1945	1969	1993	2015	2036
Cataluña	5692	5772	5848	5921	5990	6058
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1341	1359	1376	1392	1408	1423
Extremadura	489	496	502	508	513	519
Galicia	597	607	617	627	636	645
Madrid	8760	8874	8983	9086	9184	9281
Melilla	2	2	2	2	2	2
Murcia	142	144	146	147	149	150
Navarra	494	501	507	513	519	525
País Vasco	1442	1462	1481	1498	1515	1532
La Rioja	348	352	357	361	365	368

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	27104	27284	27488	27704	27938	28149
Andalucía	1332	1340	1348	1356	1363	1371
Aragón	829	835	841	845	853	859
Asturias	307	310	312	314	317	320
Islas Baleares	215	217	219	221	223	224
Canarias	151	152	153	155	156	157
Cantabria	205	206	207	208	210	211
Castilla La Mancha	2835	2859	2884	2909	2938	2965
Castilla y León	1919	1930	1942	1954	1972	1987
Cataluña	5692	5745	5802	5864	5926	5984
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1341	1348	1357	1366	1375	1385
Extremadura	489	492	495	499	503	506
Galicia	597	600	603	602	603	598
Madrid	8760	8807	8867	8933	9009	9072
Melilla	2	2	2	2	2	2
Murcia	142	143	144	145	147	149
Navarra	494	497	499	501	506	509
País Vasco	1442	1452	1462	1472	1485	1496
La Rioja	348	350	352	355	358	360

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.006	0.009	0.016	0.022	0.027	0.031
Andalucía	0.004	0.008	0.014	0.019	0.022	0.025
Aragón	0.003	0.009	0.016	0.022	0.027	0.031
Asturias	0.012	0.010	0.019	0.028	0.035	0.041
Islas.Baleares	0.012	0.011	0.021	0.030	0.037	0.044
Canarias	0.006	0.009	0.016	0.023	0.028	0.033
Cantabria	0.006	0.006	0.011	0.015	0.018	0.021
Castilla.La.Mancha	0.009	0.010	0.020	0.028	0.035	0.042
Castilla.y.León	0.004	0.008	0.014	0.019	0.022	0.025
Cataluña	0.010	0.010	0.020	0.028	0.036	0.043
Ceuta	0.000	0.003	0.005	0.005	0.003	0.001
Comunidad.Valenciana	0.005	0.008	0.014	0.019	0.022	0.025
Extremadura	0.006	0.009	0.017	0.023	0.027	0.032
Galicia	0.003	0.013	0.024	0.029	0.027	0.023
Madrid	0.005	0.007	0.013	0.017	0.021	0.023
Melilla	0.000	0.003	0.005	0.006	0.005	0.004
Murcia	0.008	0.007	0.012	0.017	0.021	0.024
Navarra	0.004	0.008	0.015	0.019	0.022	0.024
País.Vasco	0.007	0.009	0.017	0.024	0.029	0.034
La.Rioja	0.003	0.007	0.012	0.016	0.019	0.021

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	0.006	0.014	0.026	0.039	0.050	0.062
Andalucía	0.004	0.014	0.027	0.039	0.051	0.062
Aragón	0.003	0.014	0.026	0.039	0.050	0.062
Asturias	0.012	0.014	0.027	0.040	0.052	0.064
Islas Baleares	0.012	0.014	0.027	0.040	0.052	0.064
Canarias	0.006	0.014	0.027	0.039	0.050	0.062
Cantabria	0.006	0.013	0.025	0.037	0.048	0.059
Castilla.La Mancha	0.009	0.014	0.027	0.040	0.052	0.064
Castilla.y León	0.004	0.013	0.026	0.038	0.050	0.061
Cataluña	0.010	0.014	0.027	0.040	0.052	0.064
Ceuta	0.000	0.012	0.024	0.035	0.045	0.056
Comunidad Valenciana	0.005	0.013	0.026	0.038	0.050	0.061
Extremadura	0.006	0.013	0.026	0.038	0.050	0.061
Galicia	0.003	0.017	0.034	0.050	0.065	0.080
Madrid	0.005	0.013	0.025	0.037	0.048	0.059
Melilla	0.000	0.012	0.024	0.035	0.045	0.056
Murcia	0.008	0.013	0.025	0.037	0.048	0.059
Navarra	0.004	0.014	0.027	0.039	0.051	0.062
País.Vasco	0.007	0.014	0.027	0.039	0.051	0.062
La Rioja	0.003	0.013	0.025	0.037	0.048	0.058

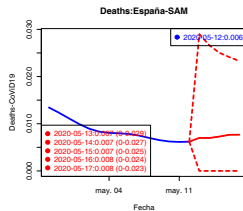
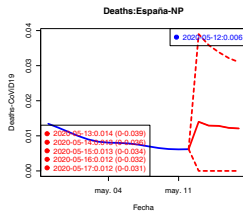
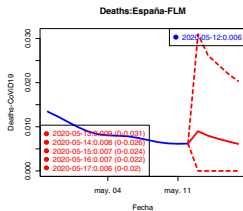
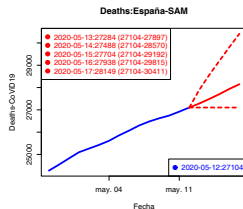
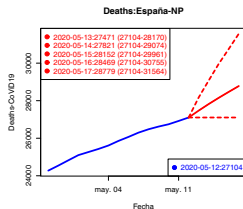
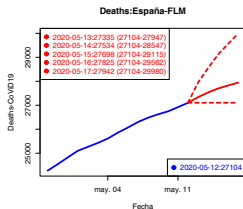
Cuadro: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.006	0.007	0.014	0.022	0.031	0.039
Andalucía	0.004	0.006	0.012	0.018	0.023	0.029
Aragón	0.003	0.008	0.015	0.019	0.030	0.036
Asturias	0.012	0.009	0.017	0.023	0.033	0.041
Islas.Baleares	0.012	0.008	0.017	0.027	0.035	0.041
Canarias	0.006	0.007	0.015	0.025	0.033	0.040
Cantabria	0.006	0.005	0.011	0.015	0.022	0.029
Castilla.La.Mancha	0.009	0.008	0.017	0.026	0.036	0.046
Castilla.y.León	0.004	0.006	0.012	0.018	0.027	0.035
Cataluña	0.010	0.009	0.019	0.030	0.041	0.051
Ceuta	0.000	0.001	0.003	0.004	0.013	0.020
Comunidad.Valenciana	0.005	0.005	0.012	0.019	0.026	0.033
Extremadura	0.006	0.006	0.013	0.021	0.028	0.034
Galicia	0.003	0.005	0.011	0.009	0.011	0.001
Madrid	0.005	0.005	0.012	0.020	0.028	0.036
Melilla	0.000	0.002	0.006	0.013	0.020	0.025
Murcia	0.008	0.006	0.013	0.018	0.034	0.046
Navarra	0.004	0.005	0.010	0.015	0.023	0.031
País.Vasco	0.007	0.007	0.014	0.021	0.029	0.037
La.Rioja	0.003	0.005	0.011	0.019	0.028	0.034

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

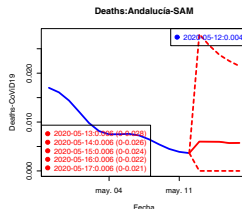
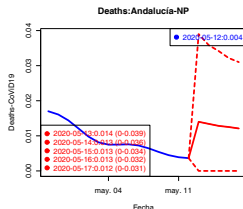
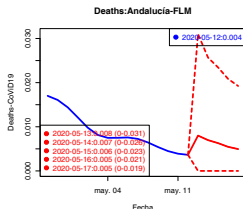
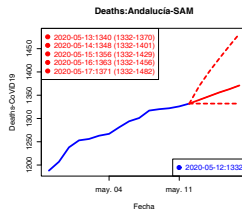
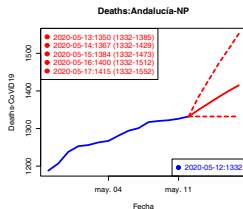
Fallecidos: España



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

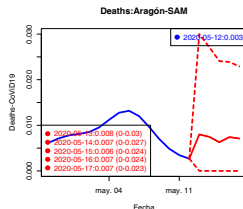
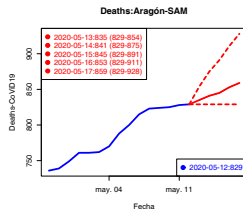
◀ Confirmados

◀ Fallecidos



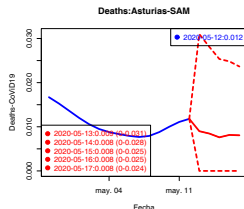
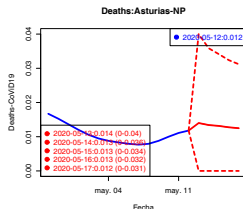
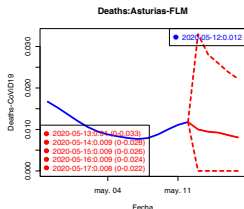
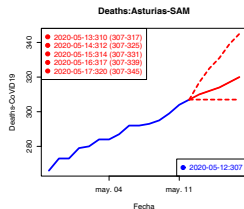
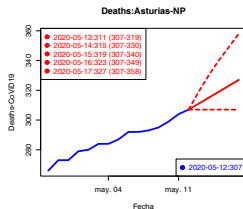
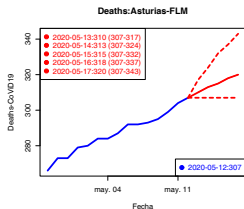
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

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◀ Confirmados ▶ Fallecidos

Fallecidos: Asturias

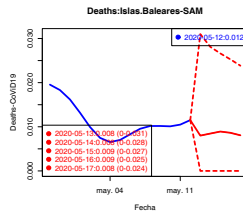
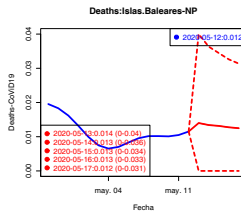
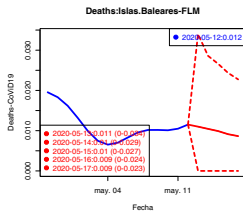
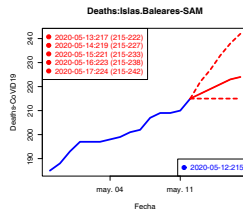
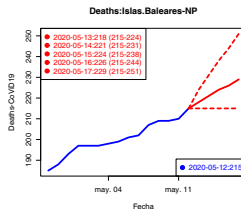
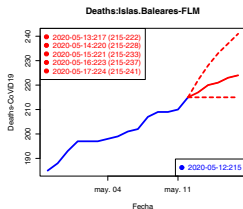


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Islas Baleares

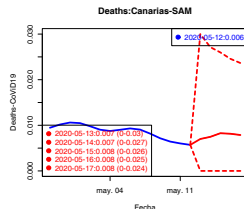
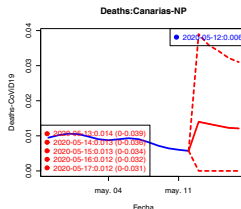
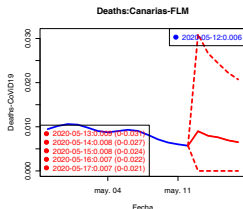
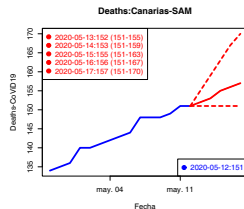
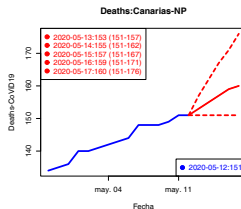
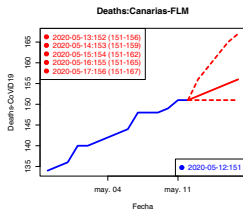


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

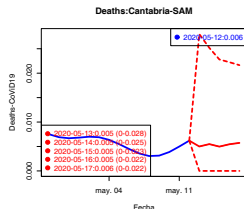
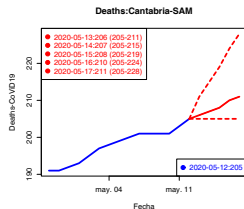
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Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

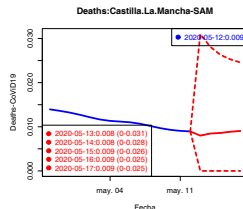
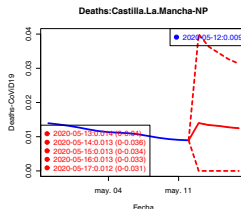
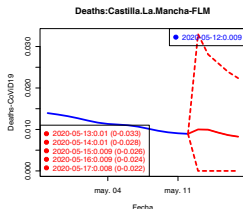
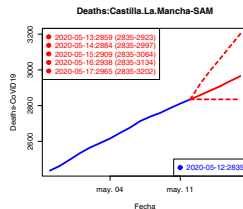
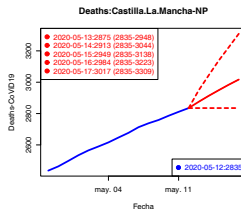
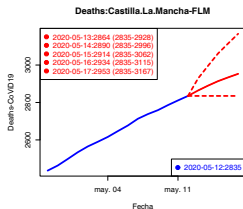
◀ Confirmados

◀ Fallecidos



◀ Confirmados ▶ Fallecidos

Fallecidos: Castilla-La Mancha

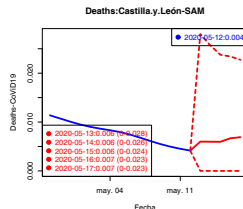
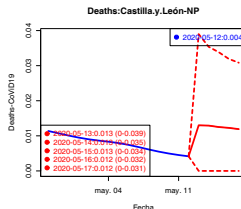
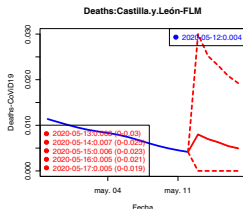
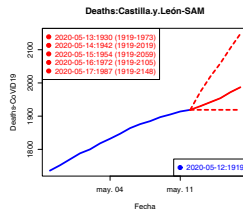
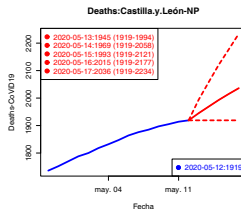
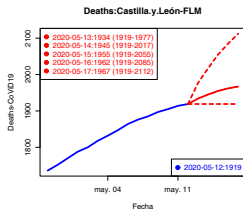


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

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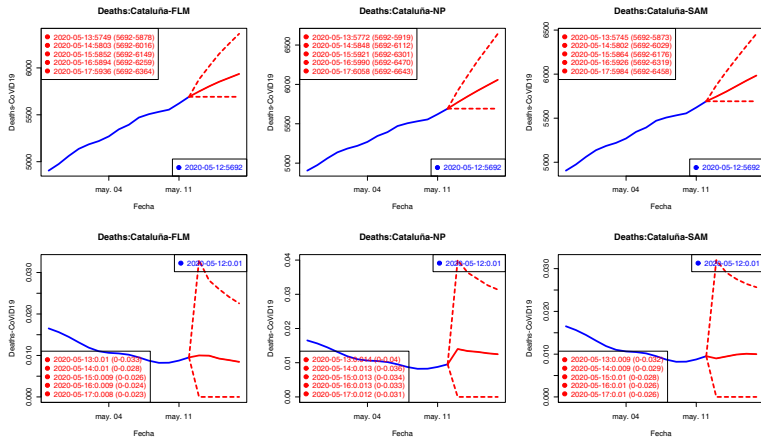


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

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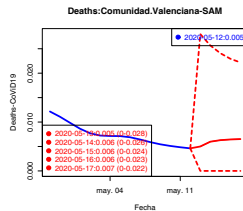
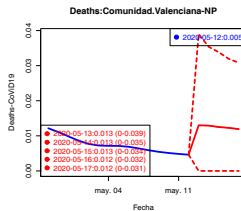
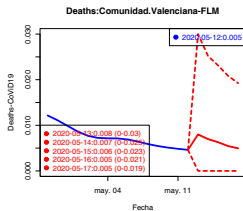
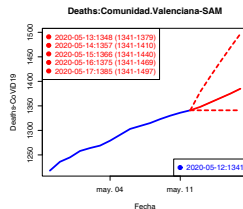
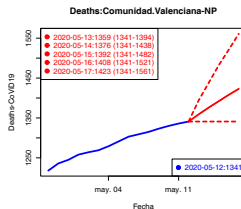
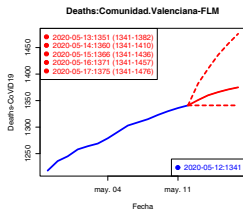


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: C. Valenciana

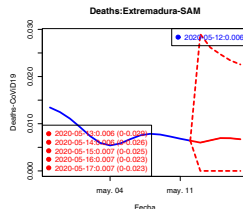
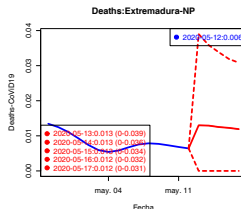
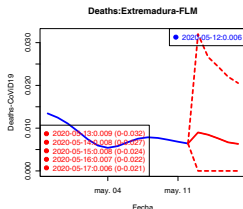
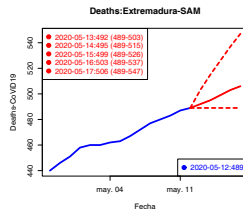
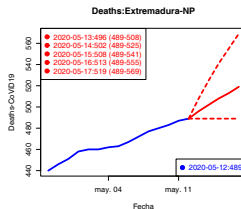
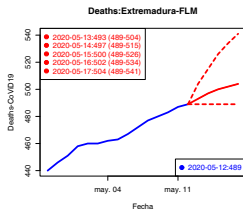


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

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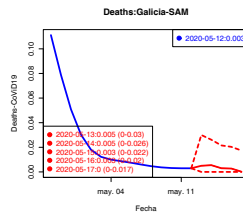
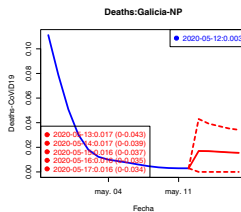
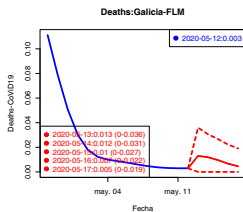
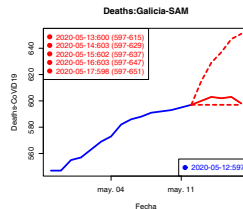
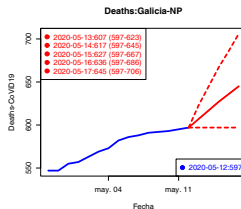
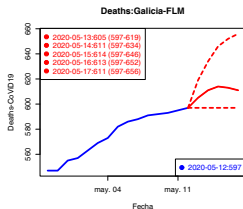


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Galicia



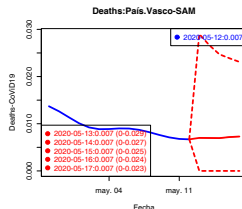
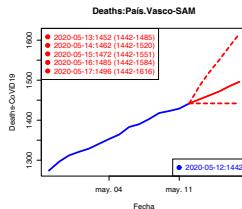
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

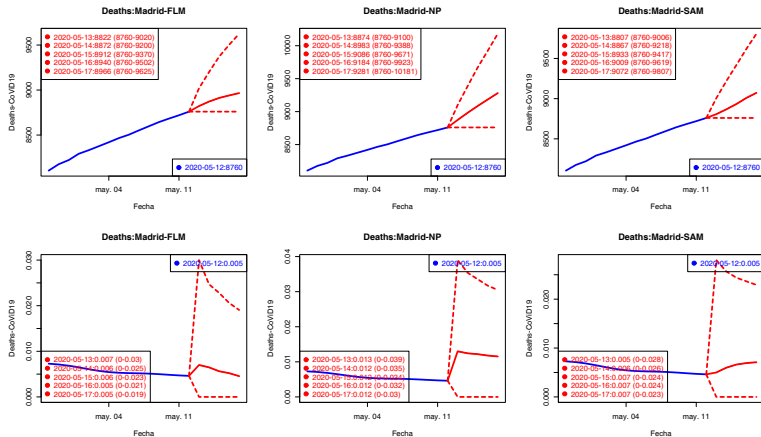
← Fallecidos

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

◀ Fallecidos



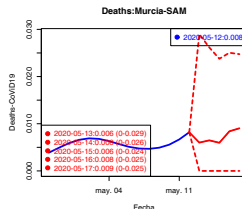
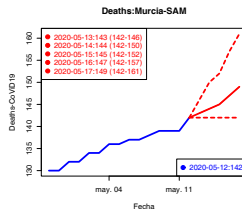
Fallecidos: Madrid



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

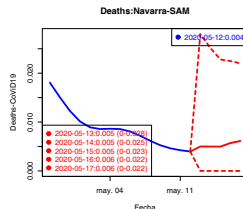
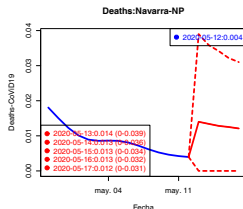
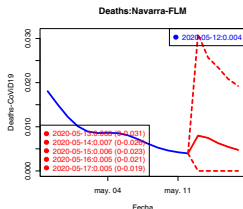
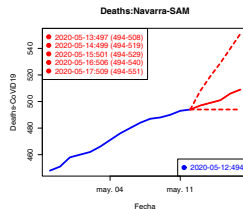
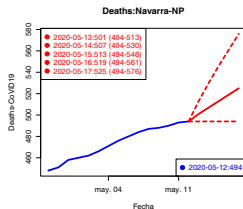
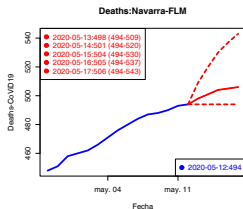
◀ Confirmados

◀ Fallecidos



◀ Confirmados ▶ Fallecidos

Fallecidos: Navarra



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

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

◀ Fallecidos

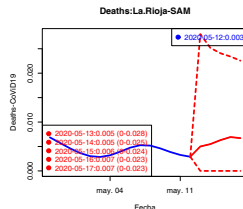
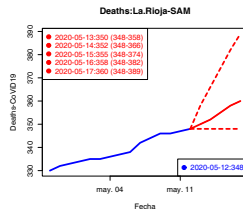
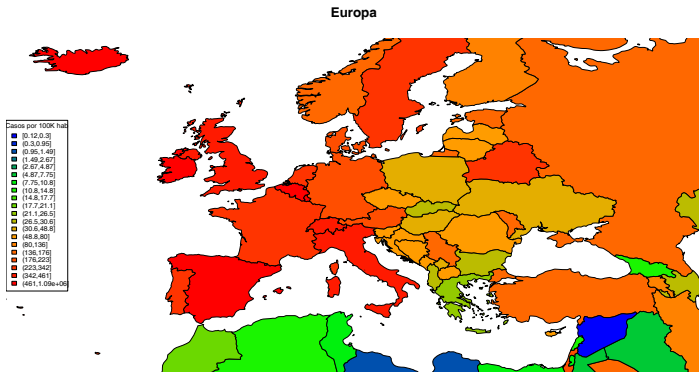


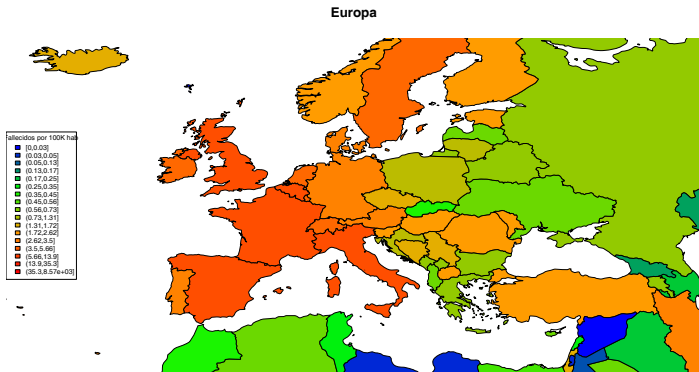
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- 3 Panorama internacional

Europa: Confirmados por 100K hab.

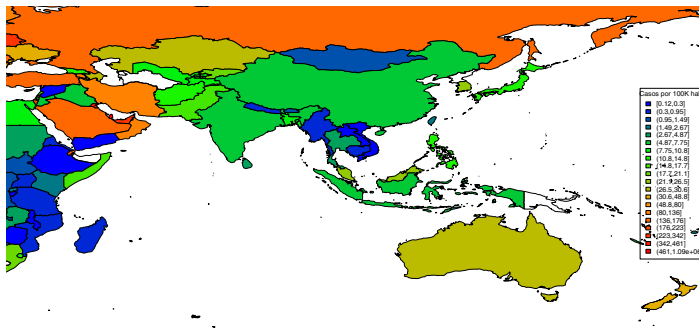


Europa: Fallecidos por 100K hab.



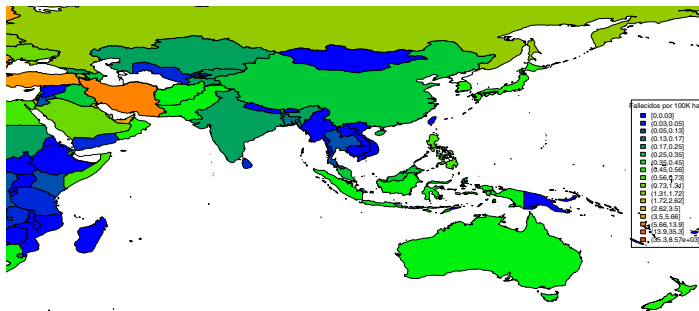
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Asia y Oceanía



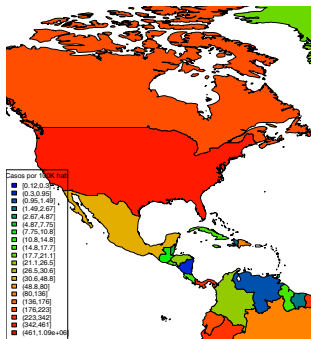
Asia y Oceanía: Fallecidos por 100K hab.

Asia y Oceanía



América: Casos por 100K hab.

América del Norte

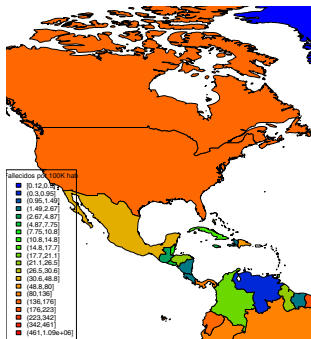


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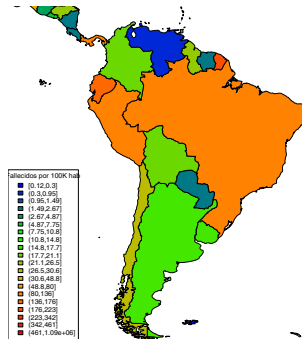


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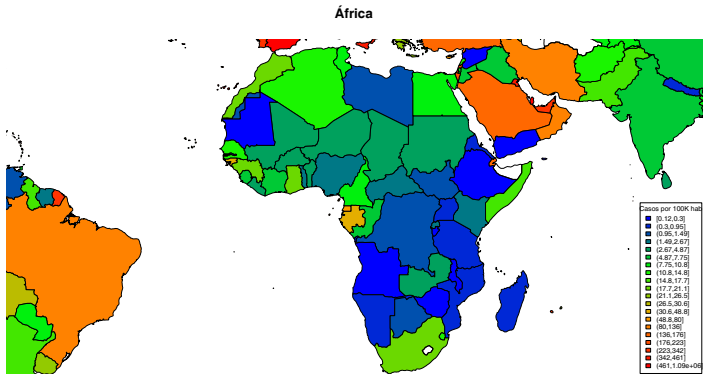
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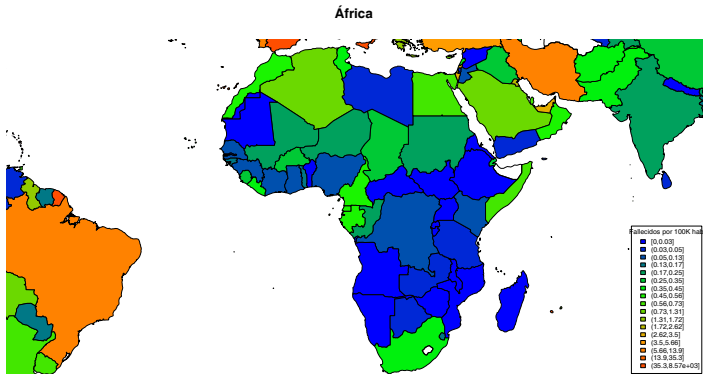
América del sur



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.