

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: 6022

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	0.001	0.001	0.001	0.001	0	0.001	0.554	0.738	0.569
H2	0.002	0.001	0.002	0.002	0.001	0.002	0.678	0.822	0.695
H3	0.004	0.002	0.004	0.004	0.002	0.004	0.726	0.844	0.735
H4	0.007	0.004	0.007	0.007	0.004	0.007	0.745	0.855	0.753
H5	0.011	0.006	0.011	0.011	0.007	0.011	0.748	0.861	0.758

Último dato: 2020-05-14 21:00 que se publica 2020-05-15 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	274367	276410	278098	279680	281008	282288
Andalucía	16068	16240	16398	16549	16699	16862
Aragón	7015	7083	7145	7205	7268	7336
Asturias	3295	3319	3341	3361	3380	3400
Islas.Baleares	2073	2082	2088	2093	2097	2100
Canarias	2280	2289	2297	2304	2309	2314
Cantabria	2761	2780	2797	2812	2829	2846
Castilla.La.Mancha	24527	24748	24932	25100	25248	25389
Castilla.y.León	24512	24713	24871	25017	25133	25242
Cataluña	57107	57612	58026	58403	58615	58749
Ceuta	175	176	176	177	178	179
Comunidad.Valenciana	14392	14536	14668	14794	14910	15037
Extremadura	3934	3951	3959	3963	3963	3961
Galicia	10892	10958	11009	11057	11100	11146
Madrid	71098	71396	71630	71861	72063	72261
Melilla	132	132	132	133	133	132
Murcia	2477	2509	2538	2568	2602	2641
Navarra	8082	8209	8325	8437	8562	8705
País.Vasco	18138	18263	18353	18429	18501	18570
La.Rioja	5409	5425	5435	5445	5450	5455

Cuadro: Previsión Confirmados: Mod. Lineal - Horizonte 1 – 5 días.

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.005	0.007	0.014	0.019	0.024	0.029
Andalucía	0.011	0.011	0.021	0.030	0.039	0.049
Aragón	0.010	0.010	0.019	0.027	0.036	0.046
Asturias	0.007	0.007	0.014	0.020	0.026	0.032
Islas.Baleares	0.002	0.004	0.007	0.010	0.012	0.013
Canarias	0.002	0.004	0.007	0.011	0.013	0.015
Cantabria	0.007	0.007	0.013	0.019	0.025	0.031
Castilla.La.Mancha	0.007	0.009	0.016	0.023	0.029	0.035
Castilla.y.León	0.006	0.008	0.015	0.021	0.025	0.030
Cataluña	0.003	0.009	0.016	0.023	0.026	0.029
Ceuta	0.006	0.005	0.008	0.011	0.016	0.022
Comunidad.Valenciana	0.010	0.010	0.019	0.028	0.036	0.045
Extremadura	0.001	0.004	0.006	0.007	0.007	0.007
Galicia	0.005	0.006	0.011	0.015	0.019	0.023
Madrid	0.003	0.004	0.007	0.011	0.014	0.016
Melilla	0.000	0.002	0.003	0.004	0.004	0.004
Murcia	0.016	0.013	0.025	0.037	0.050	0.066
Navarra	0.019	0.016	0.030	0.044	0.059	0.077
País.Vasco	0.005	0.007	0.012	0.016	0.020	0.024
La.Rioja	0.001	0.003	0.005	0.007	0.008	0.008

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	0.005	0.004	0.009	0.013	0.017	0.022
Andalucía	0.011	0.006	0.011	0.017	0.022	0.027
Aragón	0.010	0.006	0.011	0.016	0.022	0.027
Asturias	0.007	0.004	0.008	0.012	0.016	0.020
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	0.007	0.003	0.007	0.010	0.013	0.017
Castilla.La.Mancha	0.007	0.007	0.015	0.022	0.028	0.035
Castilla.y.León	0.006	0.007	0.014	0.020	0.027	0.033
Cataluña	0.003	0.005	0.010	0.014	0.019	0.024
Ceuta	0.006	0.006	0.013	0.019	0.025	0.031
Comunidad.Valenciana	0.010	0.006	0.012	0.018	0.024	0.030
Extremadura	0.001	0.004	0.007	0.011	0.014	0.018
Galicia	0.005	0.005	0.009	0.014	0.018	0.022
Madrid	0.003	0.002	0.005	0.007	0.010	0.012
Melilla	0.000	0.003	0.005	0.008	0.010	0.013
Murcia	0.016	0.011	0.021	0.031	0.041	0.052
Navarra	0.019	0.011	0.022	0.032	0.043	0.053
País.Vasco	0.005	0.005	0.011	0.016	0.021	0.026
La.Rioja	0.001	0.002	0.004	0.007	0.009	0.011

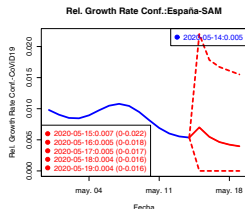
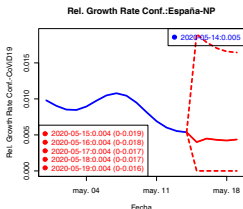
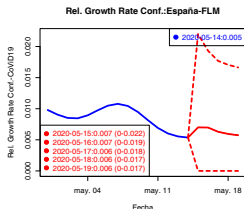
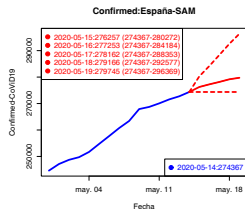
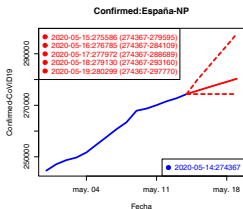
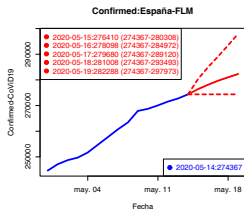
Cuadro: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
- 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.005	0.007	0.011	0.014	0.017	0.020
Andalucía	0.011	0.009	0.016	0.023	0.030	0.036
Aragón	0.010	0.008	0.014	0.020	0.026	0.032
Asturias	0.007	0.006	0.010	0.014	0.018	0.022
Islas.Baleares	0.002	0.003	0.004	0.005	0.007	0.007
Canarias	0.002	0.002	0.005	0.008	0.010	0.013
Cantabria	0.007	0.005	0.008	0.013	0.017	0.021
Castilla.La.Mancha	0.007	0.009	0.013	0.016	0.021	0.024
Castilla.y.León	0.006	0.008	0.011	0.014	0.017	0.018
Cataluña	0.003	0.013	0.016	0.021	0.025	0.026
Ceuta	0.006	0.003	0.001	0.001	0.000	0.002
Comunidad.Valenciana	0.010	0.008	0.014	0.020	0.026	0.030
Extremadura	0.001	0.004	0.003	0.000	0.000	0.000
Galicia	0.005	0.005	0.007	0.008	0.009	0.010
Madrid	0.003	0.002	0.004	0.006	0.008	0.010
Melilla	0.000	0.000	0.002	0.003	0.003	0.004
Murcia	0.016	0.011	0.020	0.028	0.035	0.044
Navarra	0.019	0.015	0.027	0.036	0.046	0.056
País.Vasco	0.005	0.007	0.007	0.008	0.010	0.011
La.Rioja	0.001	0.001	0.002	0.002	0.003	0.004

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

Confirmados: España



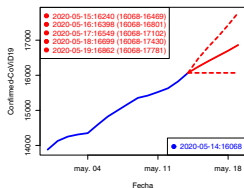
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

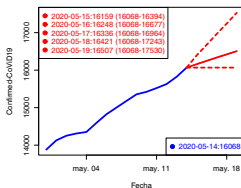
◀ Fallecidos

Confirmados: Andalucía

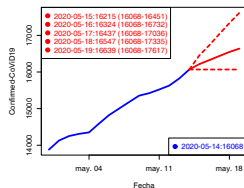
Confirmed:Andalucía-FLM



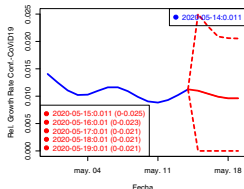
Confirmed:Andalucía-NP



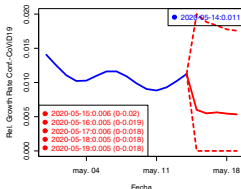
Confirmed:Andalucía-SAM



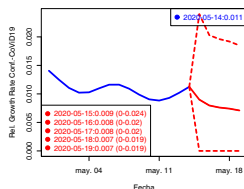
Rel. Growth Rate Conf.:Andalucia-FLM



Rel. Growth Rate Conf.:Andalucia-NP



Rel. Growth Rate Conf.:Andalucia-SAM

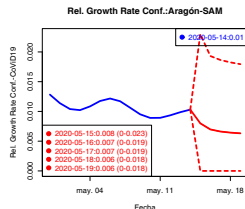
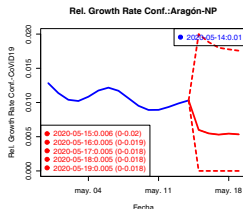
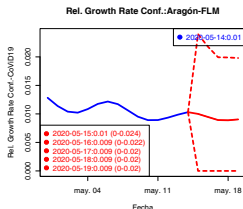
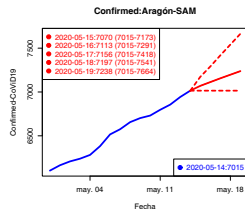
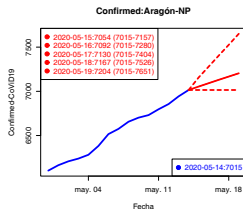
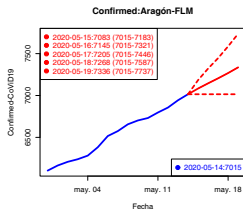


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

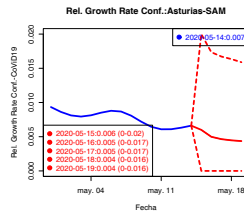
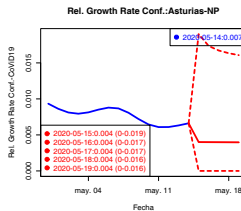
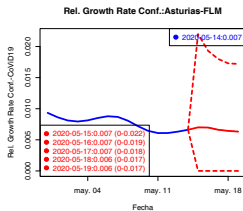
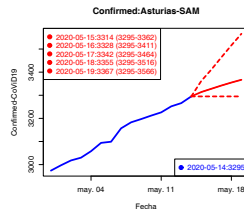
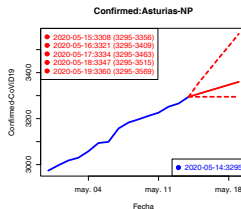
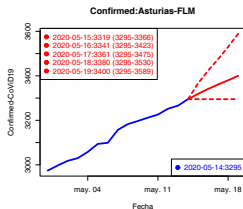


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

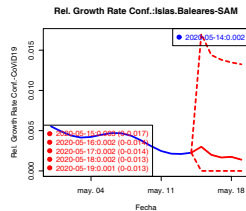
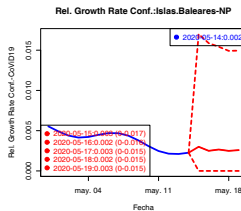
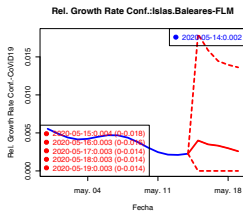
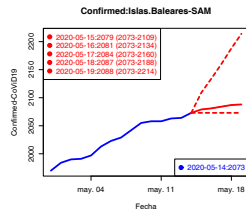
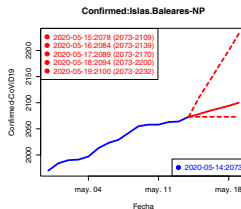
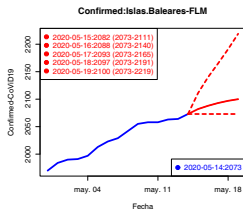


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

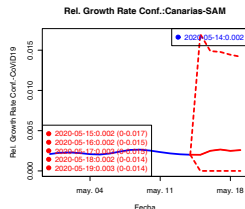
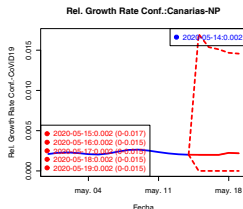
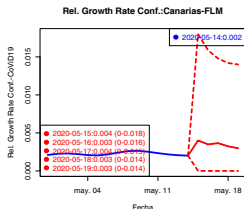
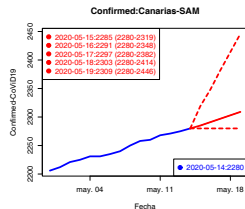
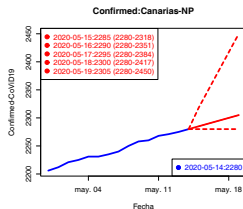
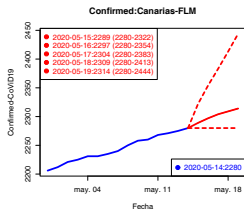


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

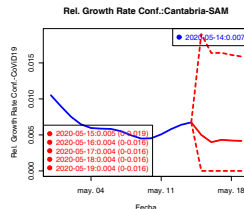
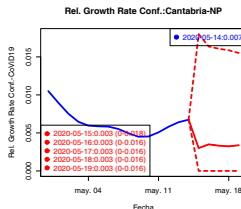
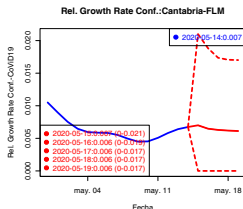
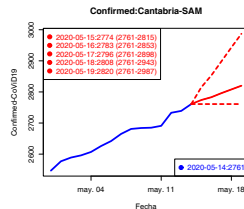
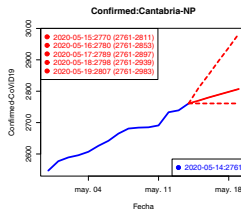
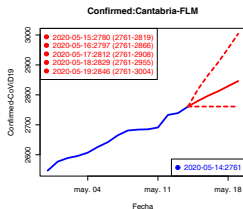


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

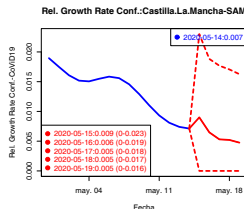
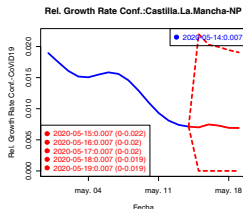
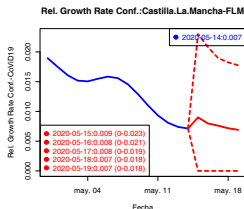
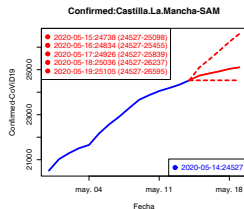
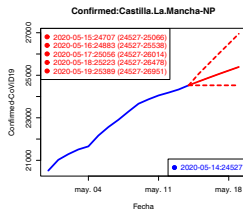
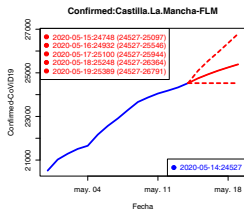


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla-La Mancha

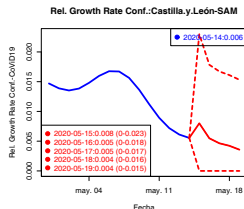
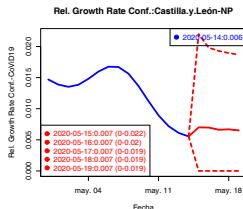
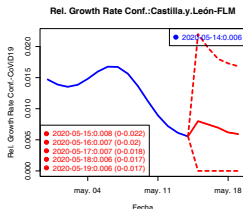
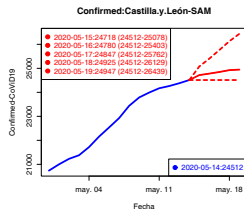
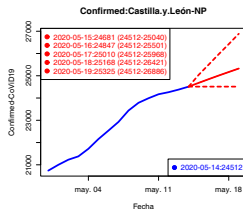
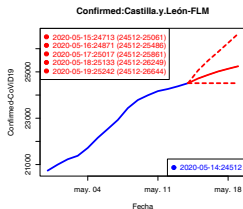


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

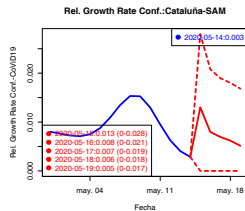
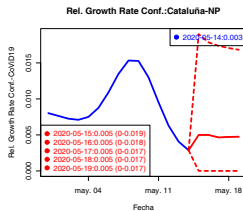
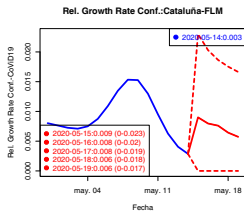
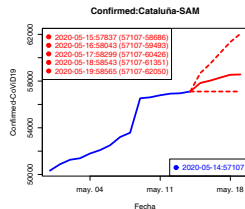
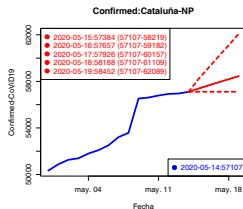
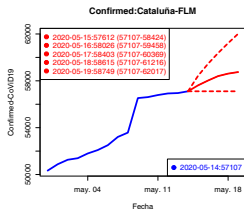


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña

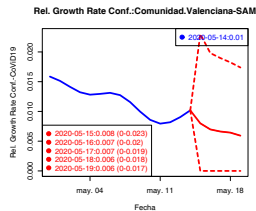
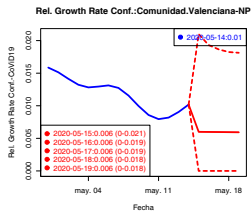
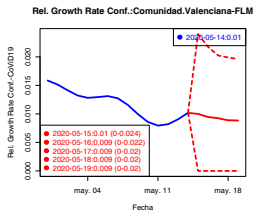
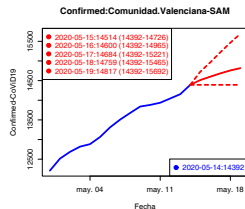
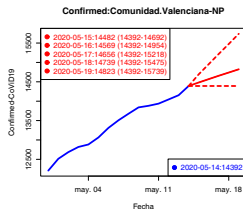
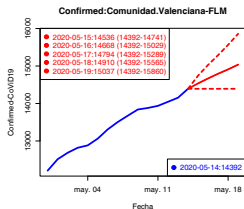


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: C. Valenciana

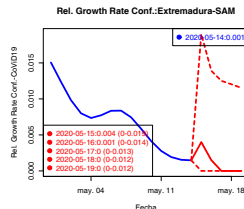
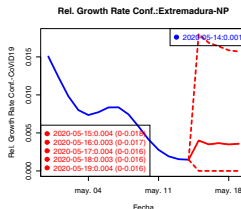
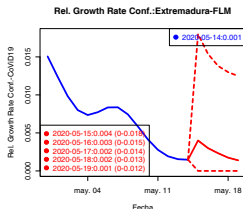
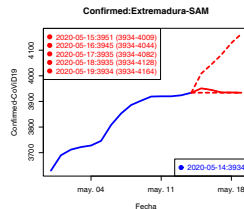
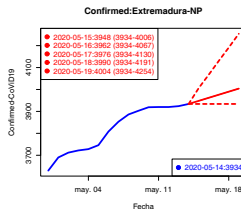
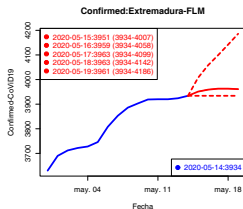


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura



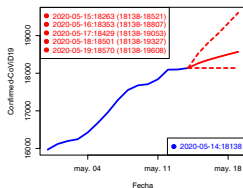
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

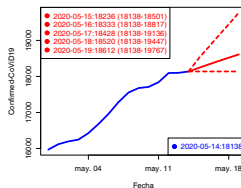
◀ Fallecidos

Confirmados: País Vasco

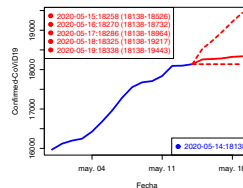
Confirmed:País.Vasco-FLM



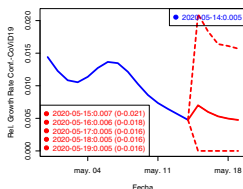
Confirmed:País.Vasco-NP



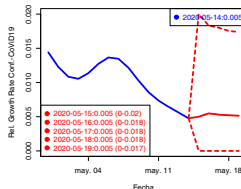
Confirmed:País.Vasco-SAM



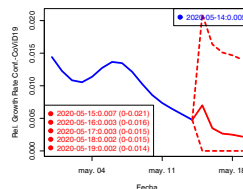
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Rel. Growth Rate Conf.:País.Vasco-NP



Rel. Growth Rate Conf.:País.Vasco-SAM



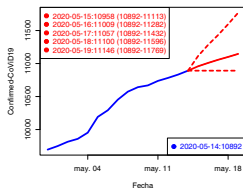
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

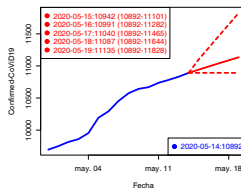
◀ Fallecidos

Confirmados: Galicia

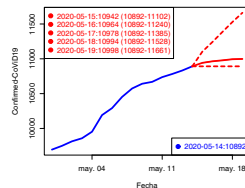
Confirmed:Galicia-FLM



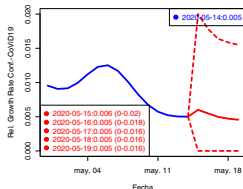
Confirmed:Galicia-NP



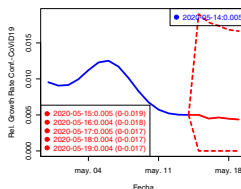
Confirmed:Galicia-SAM



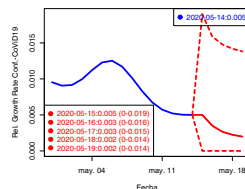
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Rel. Growth Rate Conf.:Galicia-NP



Rel. Growth Rate Conf.:Galicia-SAM

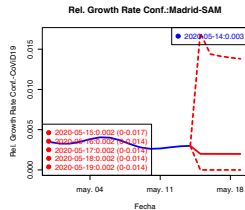
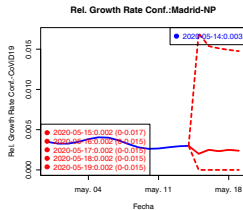
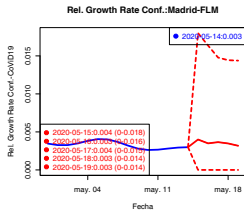
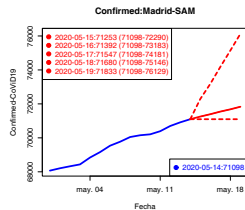
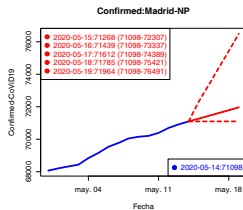
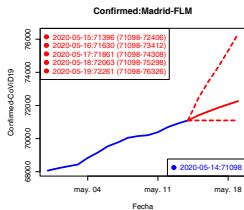


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

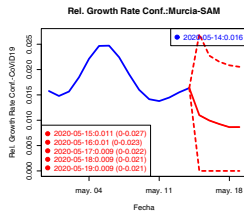
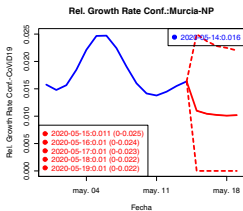
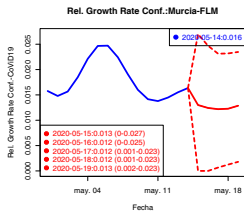
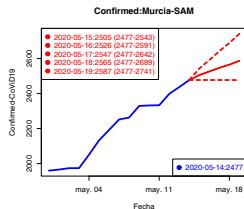
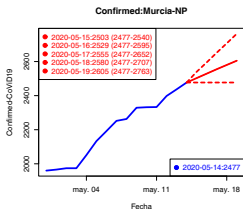
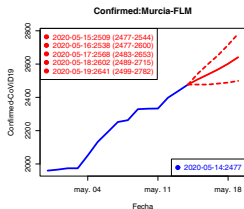


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

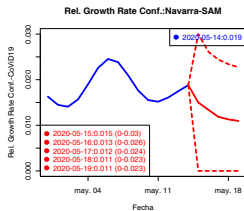
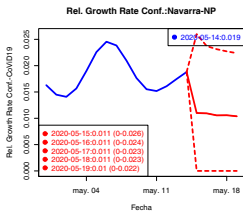
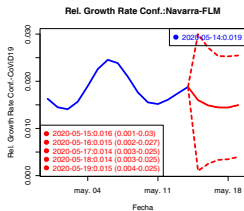
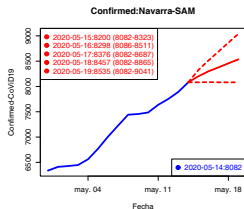
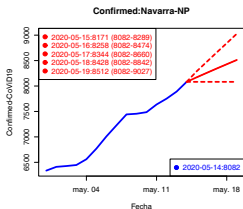
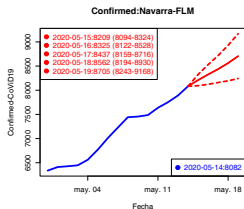


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Navarra

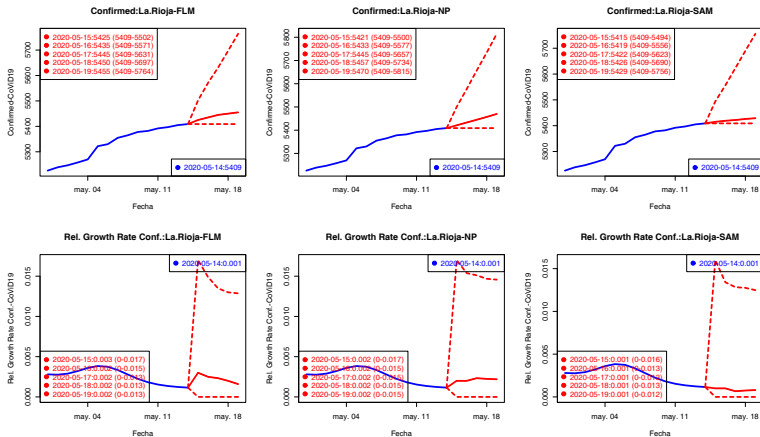


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ 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: 6928

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	0.001	0	0.539	0.527	0.572
H2	0.002	0.002	0.002	0.002	0.002	0.001	0.643	0.627	0.701
H3	0.003	0.004	0.003	0.004	0.004	0.003	0.7	0.679	0.763
H4	0.005	0.006	0.004	0.007	0.007	0.005	0.736	0.707	0.796
H5	0.008	0.009	0.006	0.011	0.01	0.008	0.756	0.719	0.813

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	27459	27665	27836	27984	28115	28233
Andalucía	1344	1353	1360	1366	1370	1374
Aragón	837	843	847	852	855	858
Asturias	310	313	315	318	320	322
Islas.Baleares	216	218	220	221	223	224
Canarias	151	152	153	153	154	154
Cantabria	206	207	208	209	210	211
Castilla.La.Mancha	2870	2896	2917	2936	2953	2968
Castilla.y.León	1930	1942	1950	1956	1961	1964
Cataluña	5882	5945	6000	6052	6103	6150
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1358	1367	1374	1381	1387	1392
Extremadura	494	498	501	503	505	507
Galicia	601	604	607	608	610	610
Madrid	8809	8861	8904	8938	8967	8992
Melilla	2	2	2	2	2	2
Murcia	143	144	145	145	146	147
Navarra	500	503	506	508	510	512
País.Vasco	1454	1465	1474	1481	1488	1493
La.Rioja	348	350	351	352	353	353

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	27459	27799	28128	28448	28760	29065
Andalucía	1344	1361	1377	1392	1407	1422
Aragón	837	848	858	868	877	887
Asturias	310	314	318	321	325	329
Islas Baleares	216	219	221	224	227	229
Canarias	151	153	155	157	158	160
Cantabria	206	208	211	213	215	218
Castilla-La Mancha	2870	2907	2943	2978	3012	3046
Castilla y León	1930	1954	1977	1999	2020	2042
Cataluña	5882	5959	6033	6105	6176	6245
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1358	1375	1391	1406	1421	1436
Extremadura	494	500	506	512	517	523
Galicia	601	608	615	622	629	636
Madrid	8809	8914	9016	9115	9212	9306
Melilla	2	2	2	2	2	2
Murcia	143	145	146	148	150	151
Navarra	500	506	512	518	524	529
País Vasco	1454	1472	1490	1507	1523	1540
La Rioja	348	352	356	360	364	367

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	27459	27631	27819	28064	28325	28539
Andalucía	1344	1352	1362	1373	1383	1391
Aragón	837	841	847	854	860	866
Asturias	310	312	315	318	322	324
Islas Baleares	216	218	219	222	223	225
Canarias	151	152	153	154	155	156
Cantabria	206	207	209	210	212	213
Castilla-La Mancha	2870	2890	2907	2929	2953	2973
Castilla y León	1930	1939	1946	1959	1974	1985
Cataluña	5882	5936	5981	6047	6135	6197
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1358	1366	1375	1386	1397	1407
Extremadura	494	497	499	503	507	509
Galicia	601	604	607	610	614	618
Madrid	8809	8851	8916	8995	9064	9127
Melilla	2	2	2	2	2	2
Murcia	143	144	145	146	148	149
Navarra	500	503	507	511	517	521
País Vasco	1454	1462	1470	1482	1495	1505
La Rioja	348	349	351	354	357	359

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.006	0.007	0.014	0.019	0.024	0.028
Andalucía	0.004	0.006	0.012	0.016	0.019	0.022
Aragón	0.004	0.007	0.012	0.017	0.022	0.025
Asturias	0.008	0.009	0.017	0.024	0.032	0.038
Islas.Baleares	0.007	0.009	0.018	0.025	0.030	0.036
Canarias	0.002	0.007	0.012	0.016	0.020	0.022
Cantabria	0.005	0.006	0.010	0.015	0.019	0.022
Castilla.La.Mancha	0.007	0.009	0.017	0.023	0.029	0.034
Castilla.y.León	0.003	0.006	0.010	0.014	0.016	0.017
Cataluña	0.014	0.011	0.020	0.029	0.038	0.046
Ceuta	0.000	0.003	0.004	0.004	0.003	0.002
Comunidad.Valenciana	0.006	0.007	0.012	0.017	0.021	0.025
Extremadura	0.005	0.008	0.014	0.019	0.022	0.026
Galicia	0.003	0.005	0.009	0.012	0.014	0.016
Madrid	0.003	0.006	0.011	0.015	0.018	0.021
Melilla	0.000	0.003	0.004	0.004	0.004	0.003
Murcia	0.007	0.007	0.012	0.017	0.022	0.026
Navarra	0.005	0.006	0.012	0.017	0.021	0.025
País.Vasco	0.005	0.008	0.014	0.019	0.023	0.027
La.Rioja	0.001	0.005	0.009	0.011	0.013	0.014

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	0.012	0.024	0.036	0.047	0.058
Andalucía	0.004	0.012	0.024	0.036	0.047	0.058
Aragón	0.004	0.013	0.025	0.037	0.048	0.060
Asturias	0.008	0.013	0.025	0.037	0.048	0.060
Islas.Baleares	0.007	0.013	0.025	0.037	0.048	0.060
Canarias	0.002	0.012	0.025	0.036	0.048	0.059
Cantabria	0.005	0.012	0.024	0.035	0.046	0.056
Castilla.La.Mancha	0.007	0.013	0.026	0.038	0.050	0.061
Castilla.y.León	0.003	0.012	0.024	0.036	0.047	0.058
Cataluña	0.014	0.013	0.026	0.038	0.050	0.062
Ceuta	0.000	0.011	0.022	0.032	0.043	0.053
Comunidad.Valenciana	0.006	0.012	0.024	0.035	0.047	0.057
Extremadura	0.005	0.012	0.024	0.036	0.047	0.058
Galicia	0.003	0.012	0.024	0.036	0.047	0.058
Madrid	0.003	0.012	0.024	0.035	0.046	0.056
Melilla	0.000	0.011	0.022	0.032	0.043	0.053
Murcia	0.007	0.012	0.024	0.035	0.046	0.057
Navarra	0.005	0.012	0.024	0.036	0.047	0.058
País.Vasco	0.005	0.012	0.025	0.036	0.048	0.059
La.Rioja	0.001	0.012	0.023	0.034	0.045	0.055

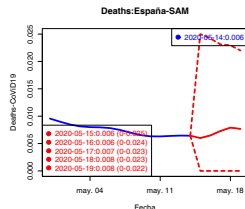
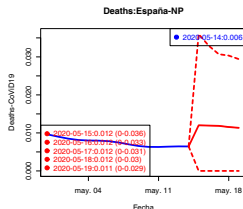
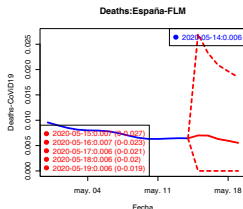
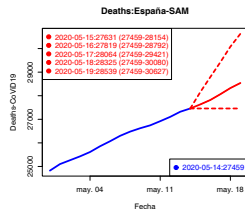
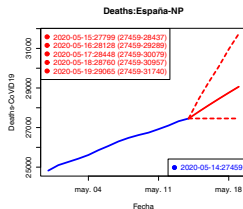
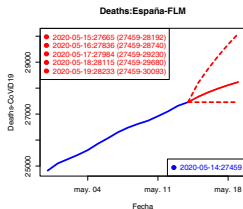
Cuadro: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.006	0.006	0.013	0.022	0.032	0.039
Andalucía	0.004	0.006	0.013	0.021	0.029	0.035
Aragón	0.004	0.005	0.012	0.021	0.028	0.035
Asturias	0.008	0.008	0.017	0.027	0.038	0.046
Islas.Baleares	0.007	0.007	0.015	0.026	0.034	0.040
Canarias	0.002	0.005	0.012	0.020	0.026	0.032
Cantabria	0.005	0.005	0.013	0.021	0.029	0.036
Castilla.La.Mancha	0.007	0.007	0.013	0.021	0.029	0.036
Castilla.y.León	0.003	0.005	0.008	0.015	0.023	0.028
Cataluña	0.014	0.009	0.017	0.028	0.043	0.054
Ceuta	0.000	0.002	0.004	0.011	0.018	0.022
Comunidad.Valenciana	0.006	0.006	0.013	0.020	0.029	0.036
Extremadura	0.005	0.005	0.010	0.018	0.025	0.031
Galicia	0.003	0.004	0.009	0.015	0.022	0.028
Madrid	0.003	0.005	0.012	0.021	0.029	0.036
Melilla	0.000	0.002	0.006	0.012	0.016	0.021
Murcia	0.007	0.006	0.013	0.023	0.033	0.040
Navarra	0.005	0.006	0.013	0.023	0.033	0.043
País.Vasco	0.005	0.006	0.011	0.019	0.028	0.035
La.Rioja	0.001	0.003	0.009	0.018	0.025	0.032

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

Fallecidos: España

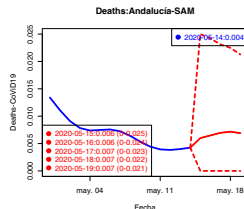
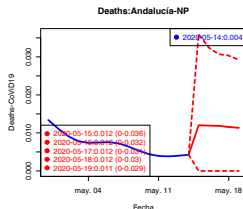
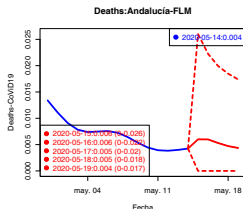
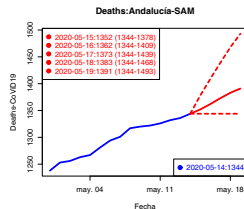
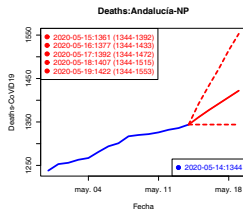
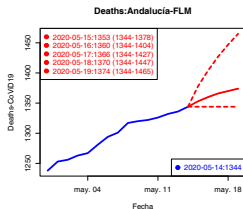


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

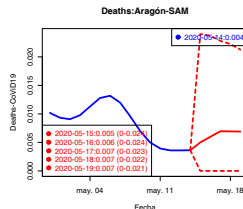
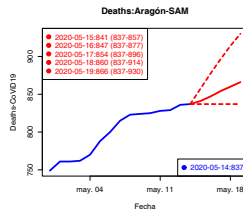
Fallecidos: Andalucía



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

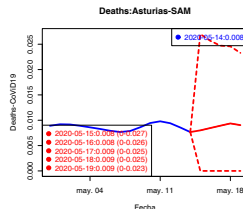
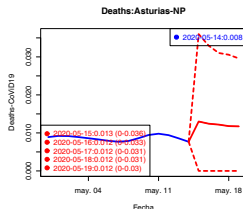
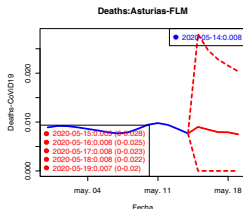
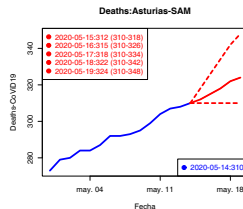
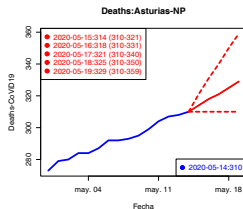
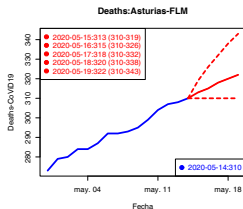
◀ Confirmados

◀ Fallecidos



◀ Confirmados ▶ Fallecidos

Fallecidos: Asturias

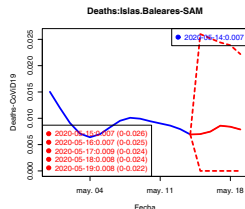
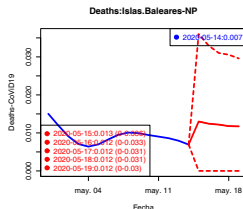
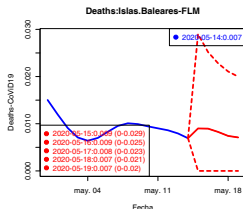
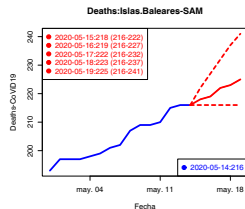
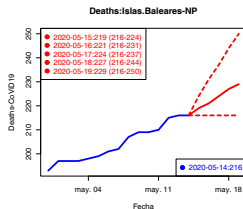
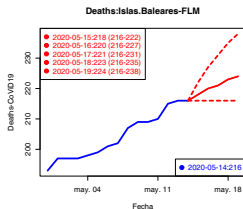


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Islas Baleares

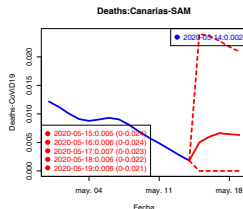
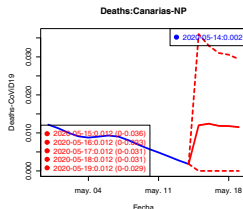
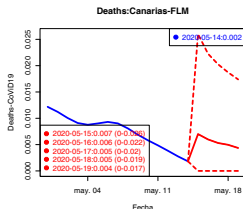
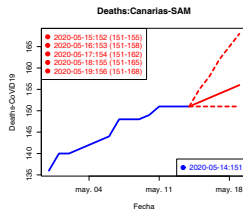
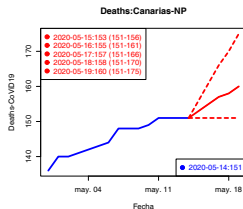
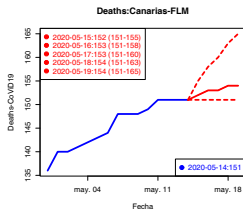


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Canarias

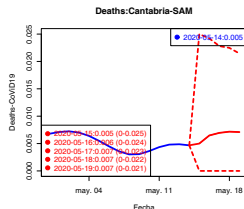
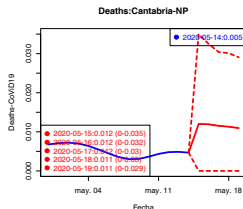
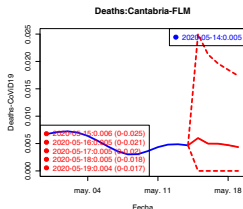
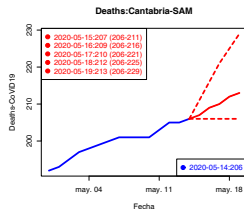
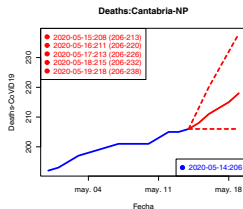
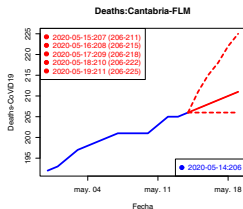


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cantabria

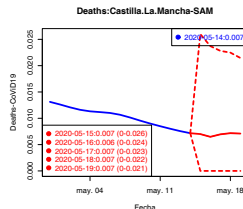
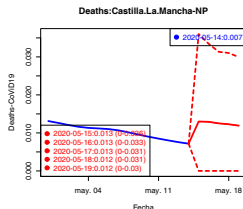
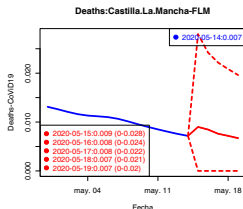
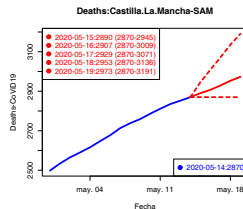
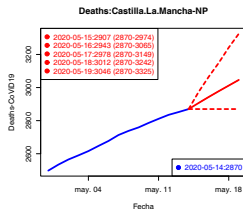
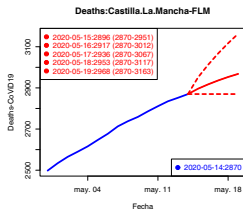


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla-La Mancha

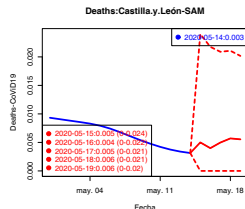
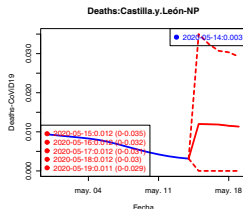
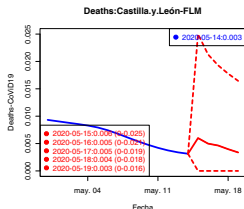
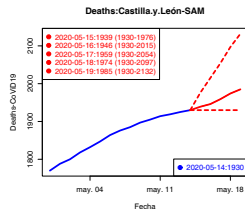
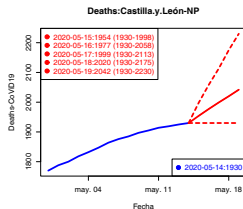
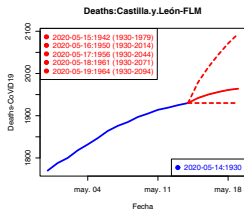


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

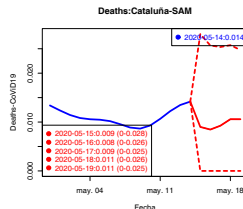
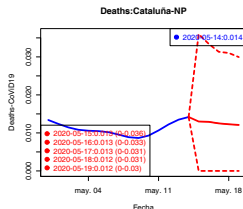
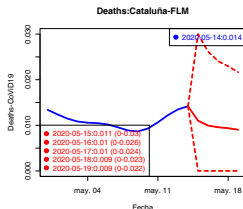
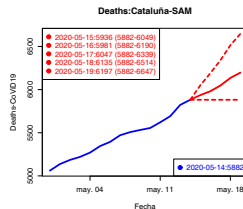
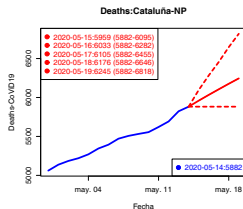
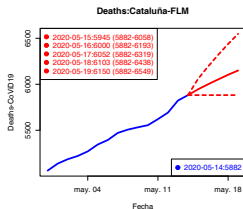


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cataluña

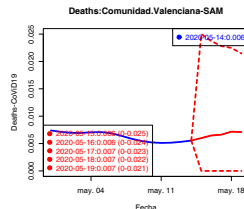
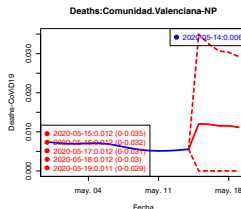
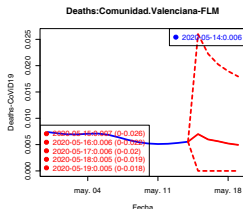
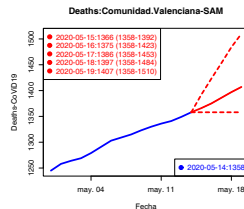
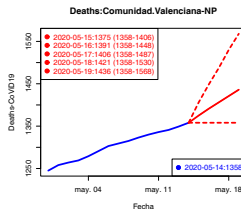
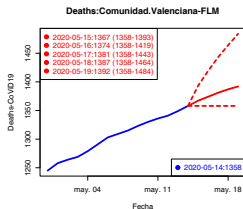


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: C. Valenciana

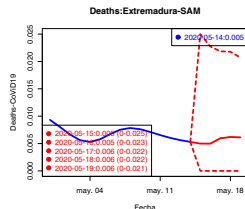
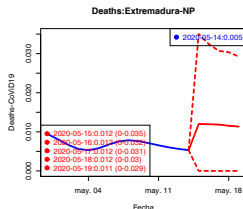
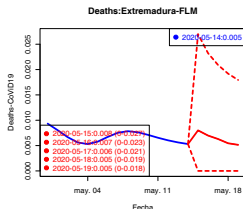
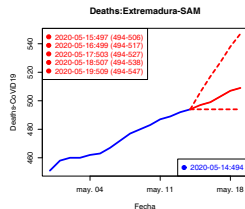
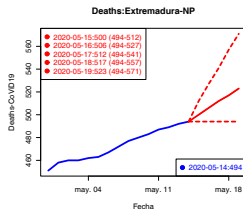
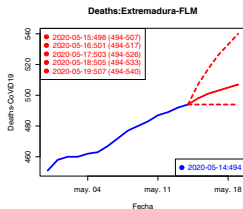


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Extremadura

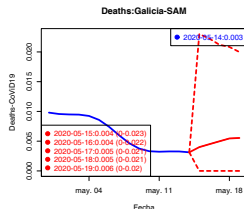
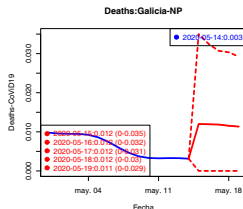
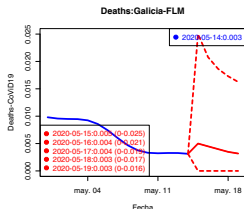
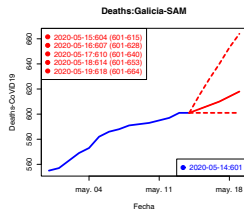
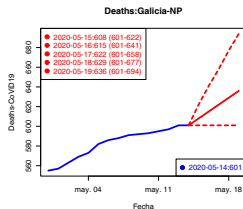
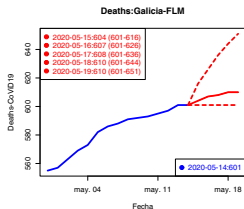


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Galicia

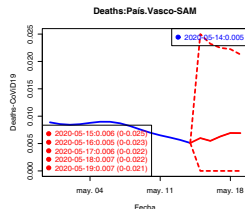
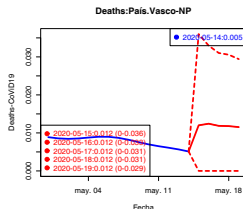
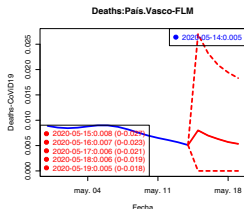
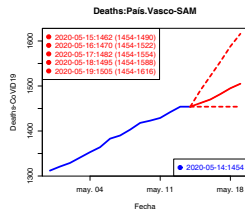
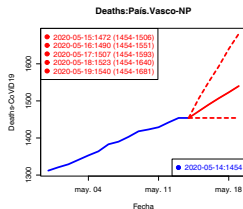
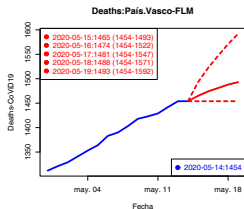


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: País Vasco

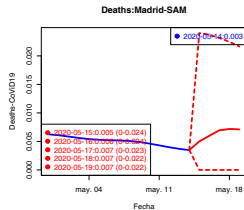
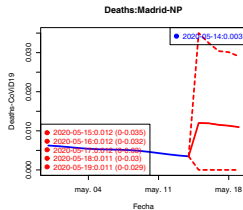
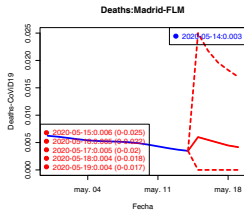
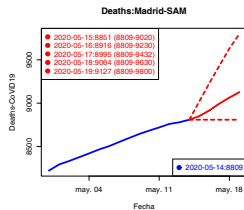
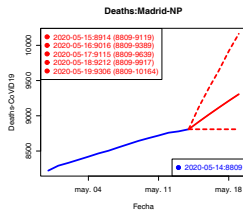
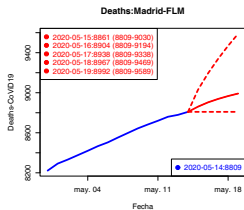


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Madrid

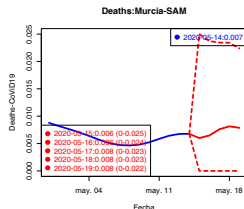
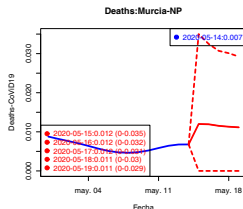
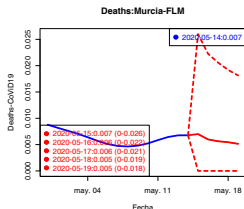
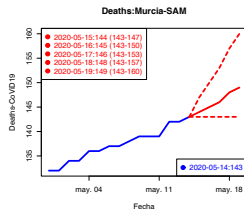
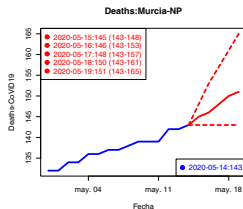
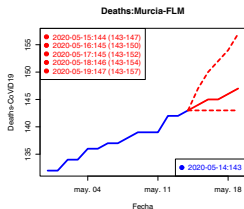


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Murcia

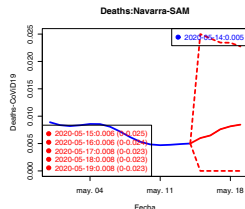
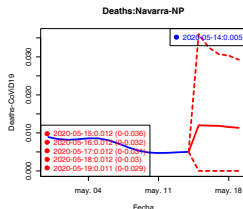
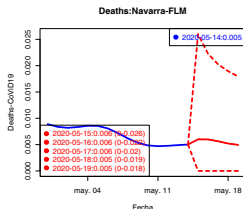
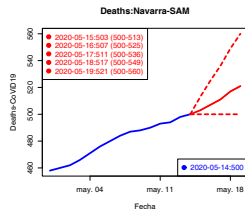
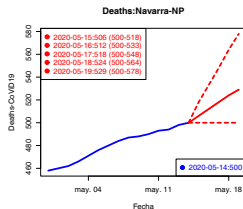
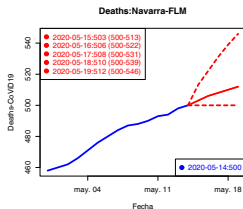


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Navarra

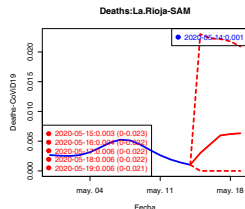
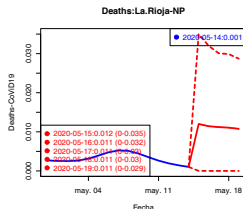
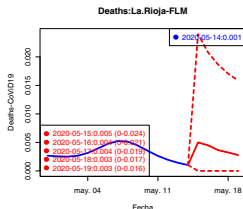
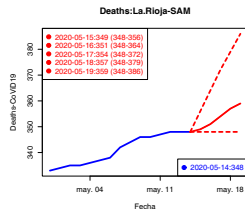
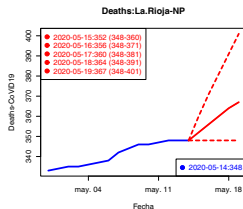
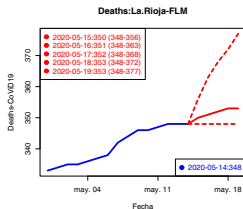


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: La Rioja



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

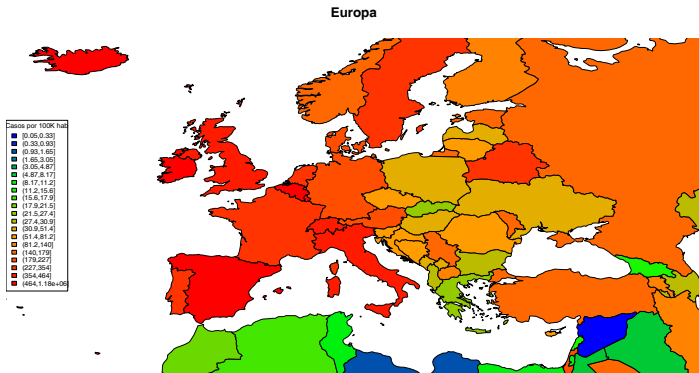
◀ Confirmados

◀ Fallecidos

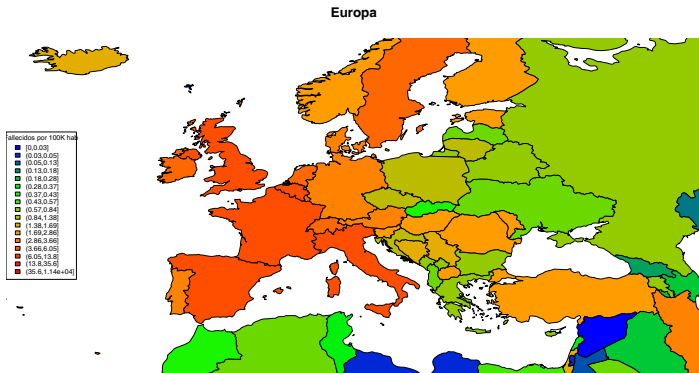
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- 3 Panorama internacional

Europa: Confirmados por 100K hab.

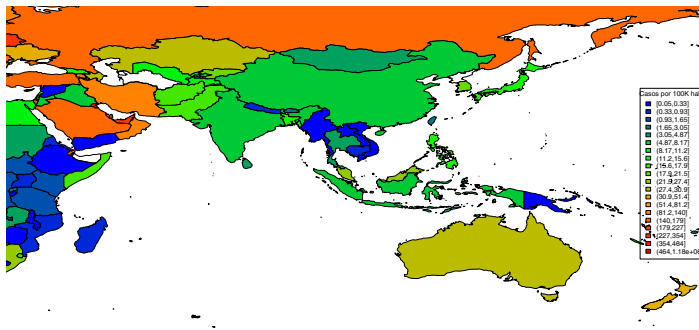


Europa: Fallecidos por 100K hab.



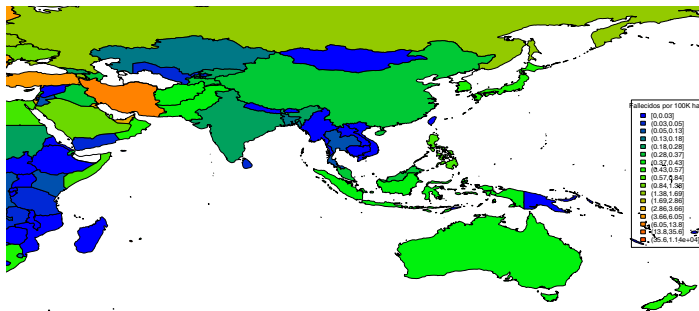
Asia y Oceanía: Casos por 100K hab.

Asia y Oceanía

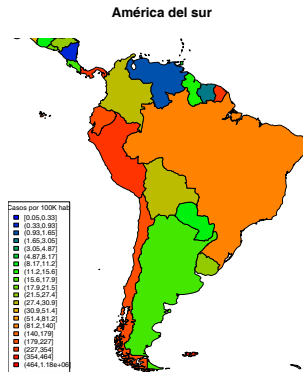


Asia y Oceanía: Fallecidos por 100K hab.

Asia y Oceanía

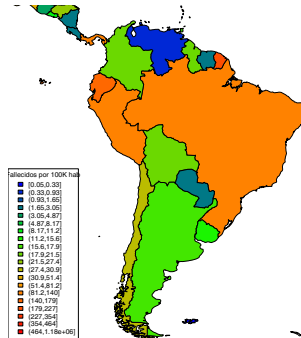
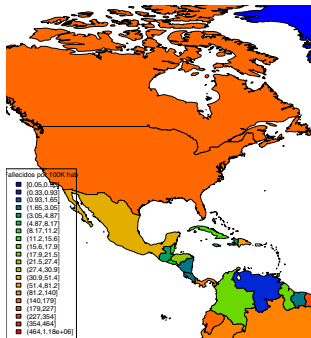


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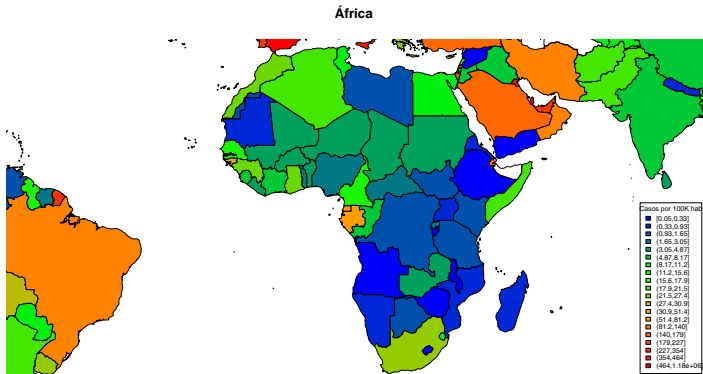


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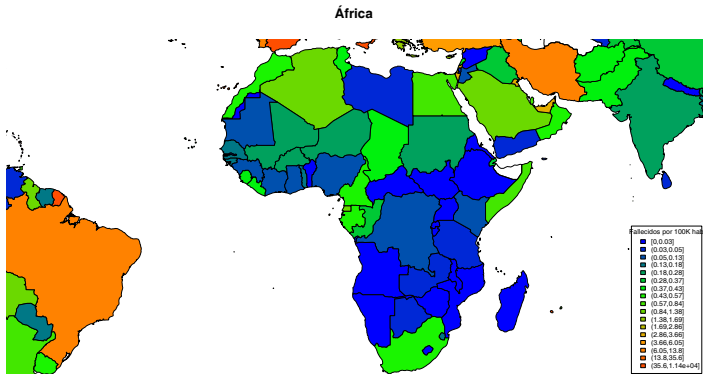
América del sur



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.