

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: 6143

Países/Regiones distintos incorporados: 165

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	0.001	0.001	0.521	0.732	0.529
H2	0.003	0.002	0.003	0.003	0.002	0.003	0.647	0.809	0.659
H3	0.006	0.003	0.006	0.006	0.004	0.006	0.692	0.831	0.703
H4	0.01	0.006	0.01	0.011	0.007	0.01	0.712	0.841	0.721
H5	0.016	0.01	0.015	0.018	0.011	0.018	0.719	0.843	0.729

Último dato: 2020-05-09 21:00 que se publica 2020-05-10 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	264663	266206	267558	268733	269830	270799
Andalucía	15403	15573	15752	15943	16141	16350
Aragón	6702	6767	6840	6919	6997	7082
Asturias	3197	3225	3254	3284	3314	3344
Islas.Baleares	2055	2068	2081	2094	2107	2121
Canarias	2258	2268	2278	2287	2296	2305
Cantabria	2684	2699	2714	2730	2744	2761
Castilla.La.Mancha	23662	24004	24358	24734	25127	25535
Castilla.y.León	23786	24157	24556	24979	25419	25879
Cataluña	53729	54115	54480	54844	55197	55549
Ceuta	169	171	173	175	177	179
Comunidad.Valenciana	13840	14012	14190	14377	14571	14775
Extremadura	3903	3934	3967	4003	4040	4080
Galicia	10642	10765	10895	11033	11170	11312
Madrid	69662	69939	70186	70400	70569	70738
Melilla	132	133	133	133	133	134
Murcia	2329	2377	2432	2490	2549	2611
Navarra	7455	7596	7757	7935	8116	8306
País.Vasco	17677	17890	18126	18380	18639	18915
La.Rioja	5378	5404	5429	5453	5473	5494

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

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.009	0.006	0.011	0.015	0.020	0.023
Andalucía	0.012	0.011	0.023	0.035	0.048	0.062
Aragón	0.011	0.010	0.021	0.032	0.044	0.057
Asturias	0.009	0.009	0.018	0.027	0.036	0.046
Islas.Baleares	0.006	0.006	0.013	0.019	0.025	0.032
Canarias	0.003	0.005	0.009	0.013	0.017	0.021
Cantabria	0.005	0.006	0.011	0.017	0.022	0.028
Castilla.La.Mancha	0.016	0.014	0.029	0.045	0.062	0.079
Castilla.y.León	0.018	0.016	0.032	0.050	0.069	0.088
Cataluña	0.007	0.007	0.014	0.021	0.027	0.034
Ceuta	0.009	0.011	0.023	0.036	0.048	0.059
Comunidad.Valenciana	0.013	0.012	0.025	0.039	0.053	0.068
Extremadura	0.008	0.008	0.016	0.026	0.035	0.045
Galicia	0.011	0.012	0.024	0.037	0.050	0.063
Madrid	0.003	0.004	0.008	0.011	0.013	0.015
Melilla	0.001	0.005	0.008	0.010	0.011	0.012
Murcia	0.022	0.021	0.044	0.069	0.094	0.121
Navarra	0.021	0.019	0.040	0.064	0.089	0.114
País.Vasco	0.013	0.012	0.025	0.040	0.054	0.070
La.Rioja	0.003	0.005	0.010	0.014	0.018	0.022

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	0.009	0.005	0.010	0.016	0.021	0.026
Andalucía	0.012	0.006	0.013	0.019	0.026	0.032
Aragón	0.011	0.008	0.016	0.025	0.033	0.041
Asturias	0.009	0.006	0.013	0.019	0.025	0.032
Islas.Baleares	0.006	0.003	0.005	0.008	0.011	0.014
Canarias	0.003	0.002	0.004	0.006	0.009	0.011
Cantabria	0.005	0.005	0.010	0.015	0.020	0.025
Castilla.La.Mancha	0.016	0.009	0.019	0.028	0.038	0.047
Castilla.y.León	0.018	0.010	0.021	0.031	0.042	0.052
Cataluña	0.007	0.004	0.008	0.012	0.016	0.020
Ceuta	0.009	0.012	0.024	0.036	0.048	0.059
Comunidad.Valenciana	0.013	0.008	0.016	0.024	0.032	0.040
Extremadura	0.008	0.004	0.008	0.012	0.016	0.020
Galicia	0.011	0.005	0.010	0.016	0.021	0.026
Madrid	0.003	0.003	0.005	0.008	0.011	0.013
Melilla	0.001	0.003	0.007	0.010	0.014	0.017
Murcia	0.022	0.013	0.026	0.040	0.053	0.067
Navarra	0.021	0.015	0.031	0.046	0.062	0.077
País.Vasco	0.013	0.008	0.017	0.026	0.034	0.042
La.Rioja	0.003	0.003	0.006	0.008	0.011	0.014

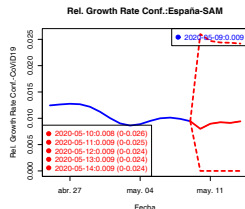
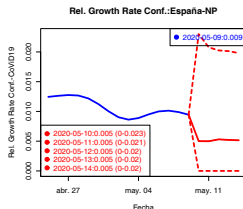
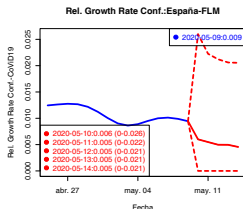
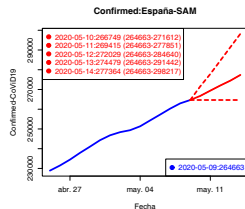
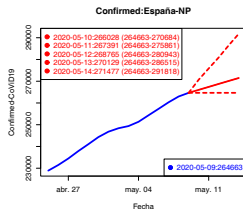
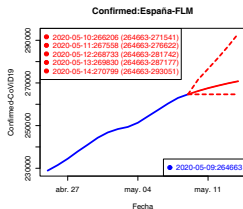
Cuadro: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.009	0.008	0.018	0.028	0.037	0.048
Andalucía	0.012	0.009	0.022	0.034	0.045	0.060
Aragón	0.011	0.007	0.019	0.031	0.042	0.058
Asturias	0.009	0.007	0.016	0.025	0.032	0.042
Islas.Baleares	0.006	0.004	0.010	0.015	0.020	0.026
Canarias	0.003	0.003	0.005	0.008	0.011	0.013
Cantabria	0.005	0.003	0.007	0.011	0.014	0.020
Castilla.La.Mancha	0.016	0.013	0.029	0.045	0.061	0.078
Castilla.y.León	0.018	0.015	0.033	0.052	0.071	0.091
Cataluña	0.007	0.007	0.013	0.020	0.027	0.034
Ceuta	0.009	0.008	0.021	0.033	0.049	0.061
Comunidad.Valenciana	0.013	0.011	0.023	0.035	0.048	0.062
Extremadura	0.008	0.005	0.015	0.023	0.031	0.042
Galicia	0.011	0.010	0.024	0.039	0.051	0.066
Madrid	0.003	0.003	0.007	0.011	0.014	0.018
Melilla	0.001	0.003	0.003	0.001	0.000	0.000
Murcia	0.022	0.019	0.048	0.077	0.105	0.135
Navarra	0.021	0.017	0.044	0.071	0.102	0.131
País.Vasco	0.013	0.010	0.026	0.041	0.056	0.074
La.Rioja	0.003	0.003	0.007	0.011	0.013	0.017

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

Confirmados: España



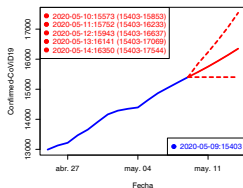
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

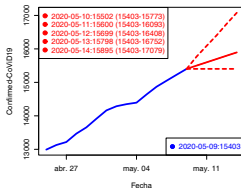
← Fallecidos

Confirmados: Andalucía

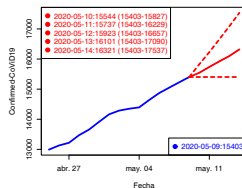
Confirmed:Andalucía-FLM



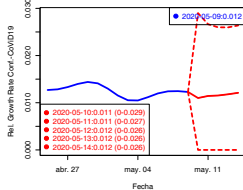
Confirmed:Andalucía-NP



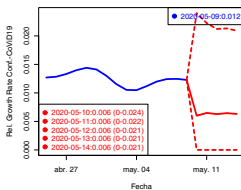
Confirmed:Andalucía-SAM



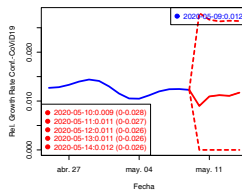
Rel. Growth Rate Conf.:Andalucia-FLM



Rel. Growth Rate Conf.:Andalucia-NP



Rel. Growth Rate Conf.:Andalucia-SAM

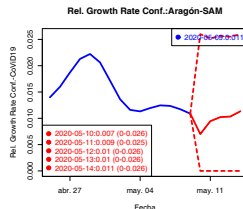
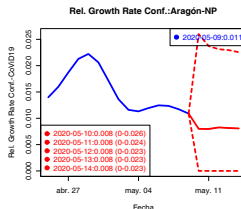
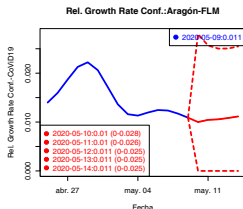
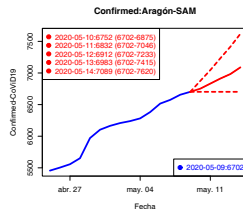
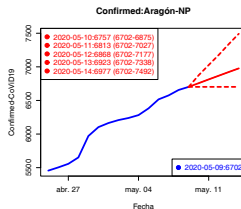
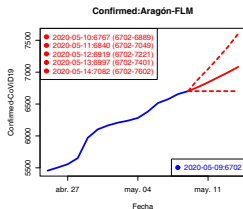


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

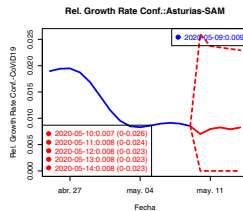
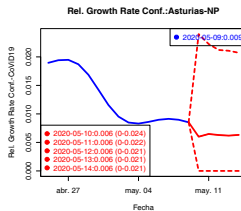
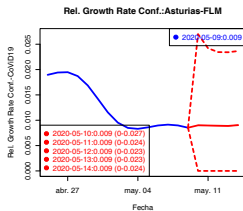
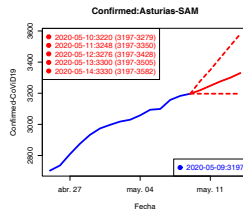
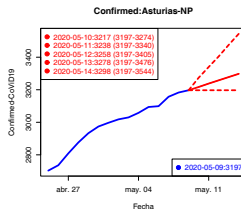
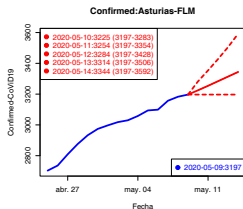


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

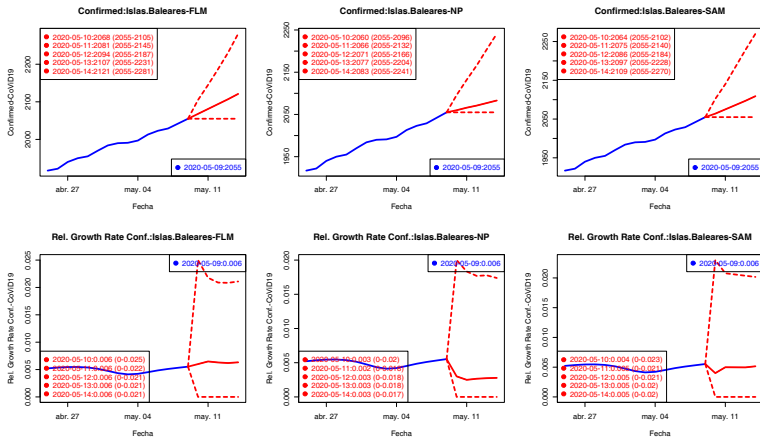


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

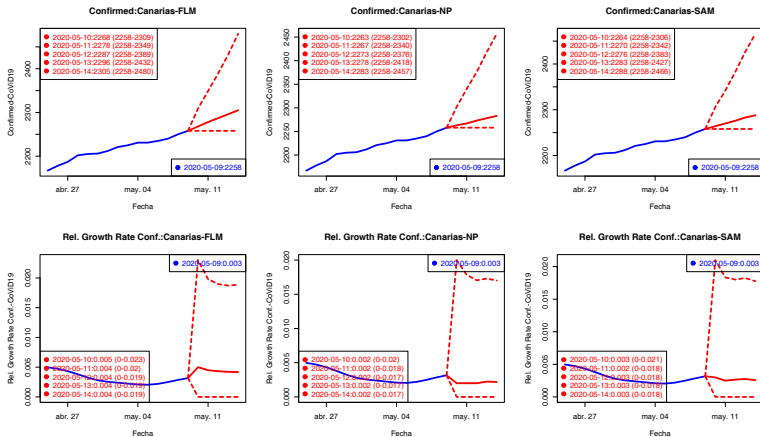


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

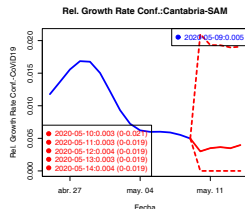
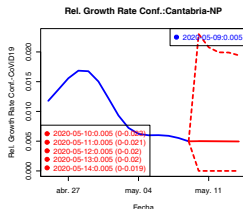
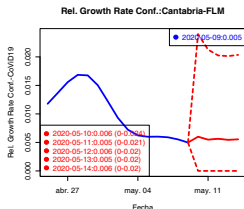
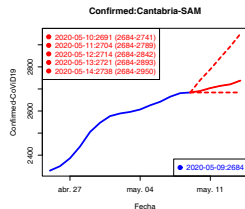
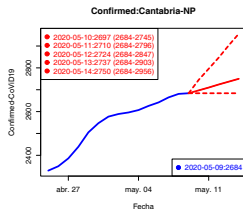
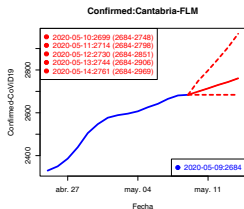


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

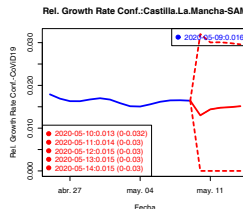
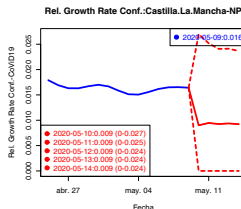
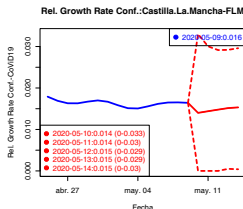
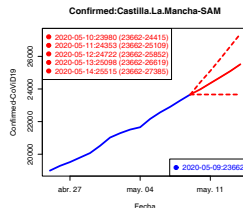
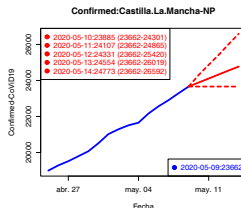
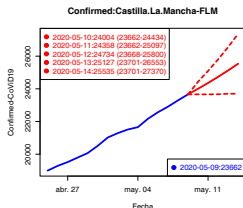


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla-La Mancha

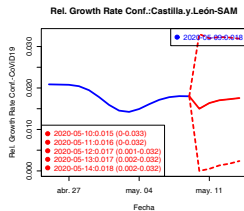
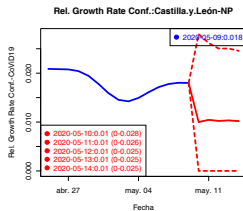
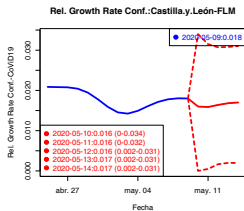
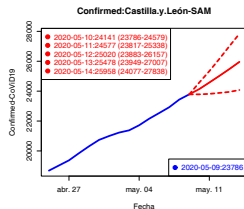
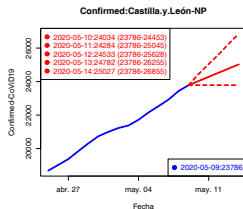
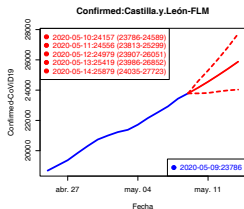


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

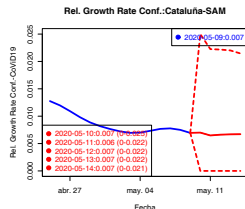
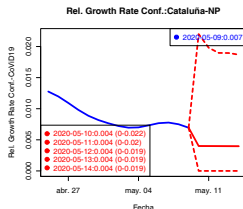
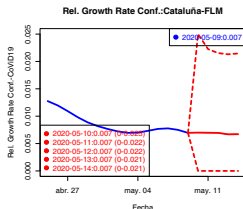
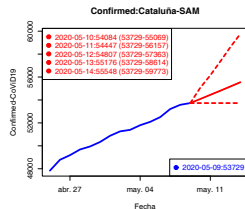
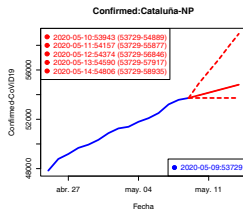
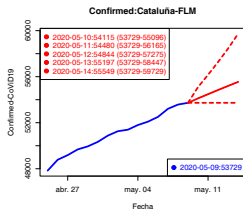


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña

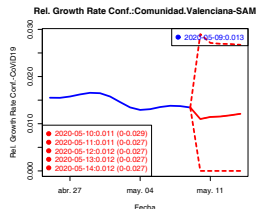
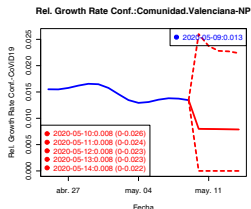
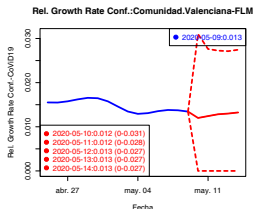
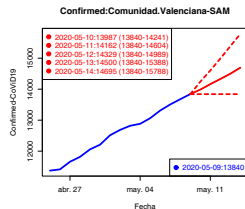
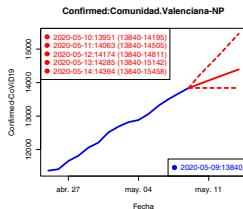
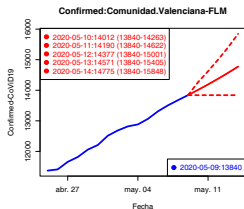


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: C. Valenciana

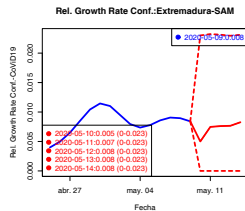
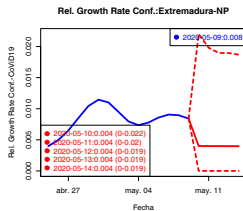
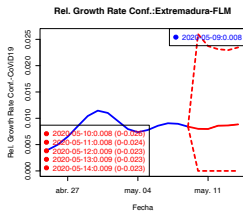
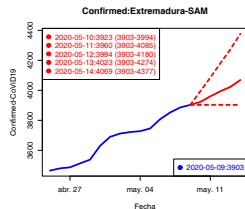
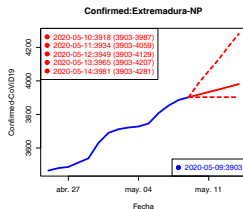
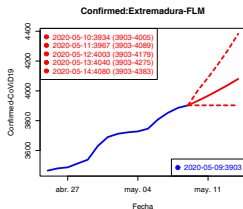


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Extremadura



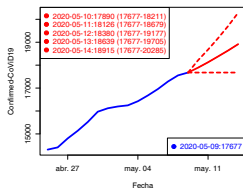
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

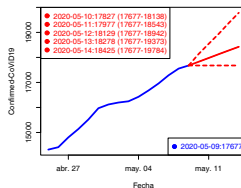
◀ Fallecidos

Confirmados: País Vasco

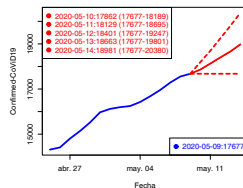
Confirmed:País.Vasco-FLM



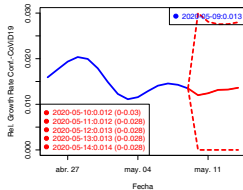
Confirmed:País.Vasco-NP



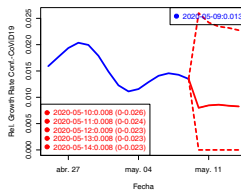
Confirmed:País.Vasco-SAM



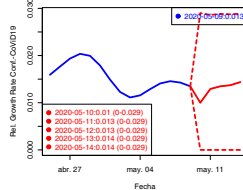
Rel. Growth Rate Conf.:País.Vasco-FLM



Rel. Growth Rate Conf.:País.Vasco-NP



Rel. Growth Rate Conf.:País.Vasco-SAM

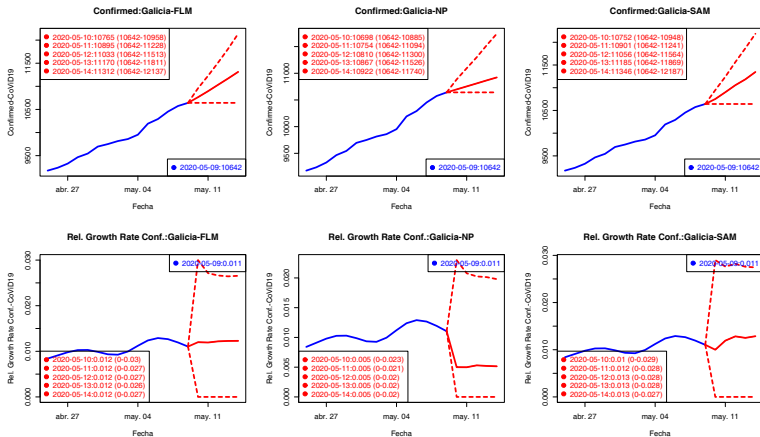


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Galicia

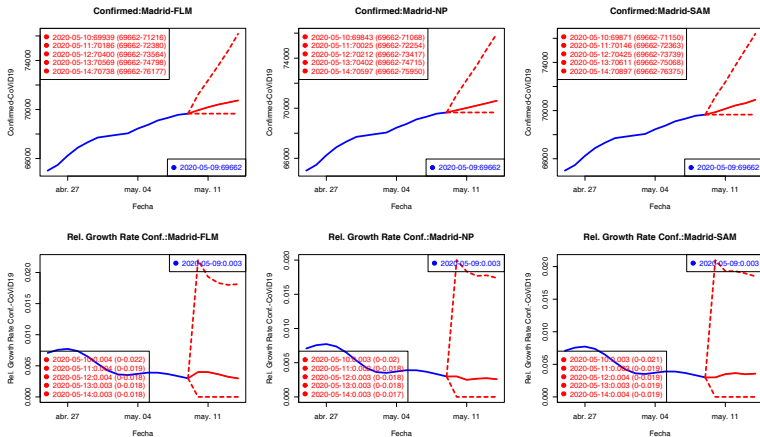


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

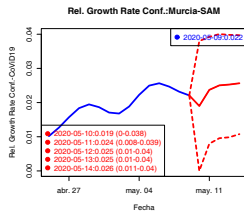
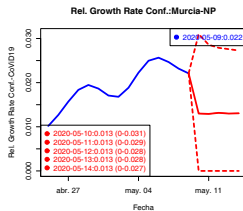
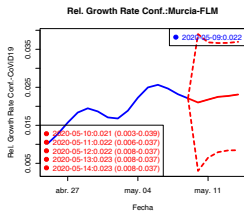
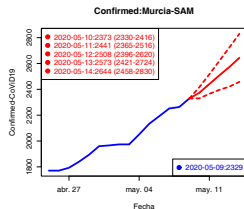
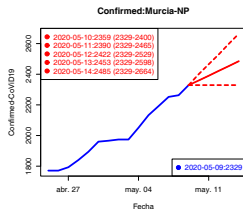
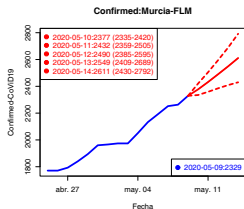


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia



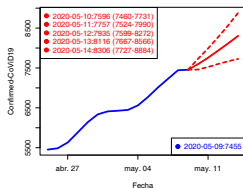
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

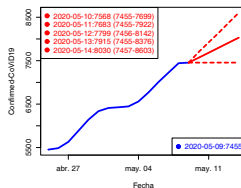
◀ Fallecidos

Confirmados: Navarra

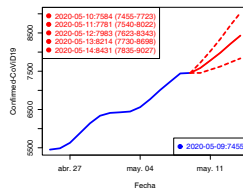
Confirmed:Navarra-FLM



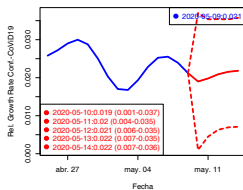
Confirmed:Navarra-NP



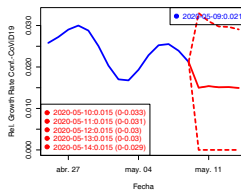
Confirmed:Navarra-SAM



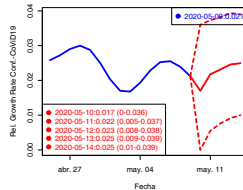
Rel. Growth Rate Conf.:Navarra-FLM



Rel. Growth Rate Conf.:Navarra-NP



Rel. Growth Rate Conf.:Navarra-SAM

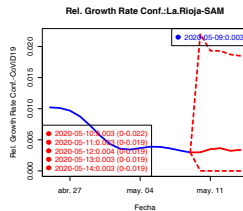
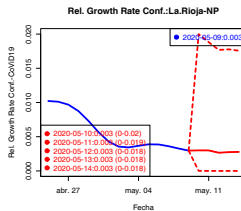
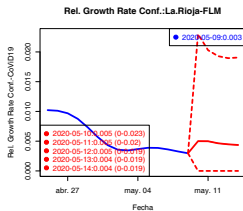
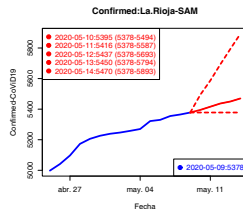
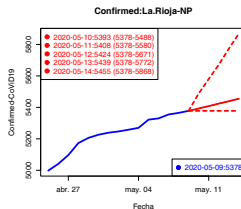
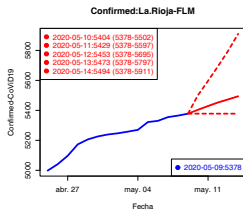


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: La Rioja



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

◀ Confirmados

◀ Fallecidos

Table of Contents

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

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 8738

Países/Regiones distintos incorporados: 108

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	0.51	0.502	0.543
H2	0.002	0.002	0.002	0.002	0.002	0.002	0.62	0.607	0.672
H3	0.004	0.004	0.003	0.005	0.004	0.004	0.676	0.66	0.735
H4	0.006	0.007	0.005	0.008	0.008	0.006	0.712	0.691	0.77
H5	0.01	0.01	0.007	0.014	0.013	0.01	0.728	0.703	0.789

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	26621	26852	27068	27262	27436	27603
Andalucía	1320	1331	1341	1351	1360	1369
Aragón	824	833	843	851	860	868
Asturias	295	298	300	302	304	305
Islas Baleares	209	211	213	214	216	218
Canarias	148	149	151	152	153	154
Cantabria	201	202	203	204	205	205
Castilla La Mancha	2759	2789	2818	2845	2871	2896
Castilla y León	1897	1913	1929	1944	1957	1969
Cataluña	5532	5590	5643	5691	5734	5775
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1323	1333	1343	1351	1359	1366
Extremadura	480	484	487	490	493	496
Galicia	592	596	600	604	607	610
Madrid	8644	8705	8759	8803	8840	8873
Melilla	2	2	2	2	2	2
Murcia	139	140	141	142	143	144
Navarra	488	492	496	500	504	508
País Vasco	1418	1431	1444	1456	1468	1480
La Rioja	346	348	350	352	354	355

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	26621	27000	27368	27726	28069	28402
Andalucía	1320	1339	1357	1375	1392	1409
Aragón	824	836	847	858	869	879
Asturias	295	299	304	308	312	316
Islas.Baleares	209	212	215	218	221	223
Canarias	148	150	152	154	156	158
Cantabria	201	204	206	209	212	214
Castilla.La.Mancha	2759	2799	2839	2877	2914	2949
Castilla.y.León	1897	1924	1950	1975	2000	2023
Cataluña	5532	5615	5696	5775	5850	5924
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1323	1341	1359	1377	1393	1409
Extremadura	480	487	493	500	506	512
Galicia	592	605	617	629	641	653
Madrid	8644	8761	8875	8986	9092	9195
Melilla	2	2	2	2	2	2
Murcia	139	141	143	145	146	148
Navarra	488	495	502	508	514	520
País.Vasco	1418	1438	1458	1477	1495	1513
La.Rioja	346	351	355	360	364	368

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	26621	26843	27108	27387	27621	27876
Andalucía	1320	1332	1346	1361	1371	1387
Aragón	824	834	843	855	868	880
Asturias	295	298	300	302	303	304
Islas Baleares	209	211	213	216	216	219
Canarias	148	149	151	153	154	156
Cantabria	201	202	203	205	207	208
Castilla-La Mancha	2759	2789	2821	2856	2891	2928
Castilla y León	1897	1914	1934	1955	1978	1997
Cataluña	5532	5580	5634	5685	5722	5761
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1323	1334	1347	1362	1377	1393
Extremadura	480	484	489	495	498	504
Galicia	592	595	599	604	607	616
Madrid	8644	8698	8774	8864	8936	9013
Melilla	2	2	2	2	2	2
Murcia	139	140	142	144	146	149
Navarra	488	493	500	506	514	522
País Vasco	1418	1433	1448	1466	1481	1499
La Rioja	346	348	351	354	356	359

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.007	0.009	0.017	0.024	0.031	0.037
Andalucía	0.007	0.008	0.016	0.023	0.030	0.037
Aragón	0.010	0.011	0.022	0.033	0.043	0.053
Asturias	0.006	0.009	0.017	0.024	0.030	0.035
Islas.Baleares	0.013	0.009	0.018	0.026	0.034	0.042
Canarias	0.007	0.009	0.018	0.025	0.032	0.039
Cantabria	0.002	0.007	0.012	0.016	0.019	0.021
Castilla.La.Mancha	0.010	0.011	0.021	0.031	0.041	0.050
Castilla.y.León	0.006	0.009	0.017	0.025	0.032	0.038
Cataluña	0.008	0.010	0.020	0.029	0.037	0.044
Ceuta	0.000	0.003	0.005	0.007	0.007	0.007
Comunidad.Valenciana	0.006	0.008	0.015	0.021	0.027	0.033
Extremadura	0.008	0.008	0.015	0.022	0.028	0.034
Galicia	0.004	0.007	0.013	0.020	0.026	0.031
Madrid	0.005	0.007	0.013	0.018	0.023	0.026
Melilla	0.000	0.003	0.005	0.006	0.004	0.003
Murcia	0.006	0.007	0.015	0.022	0.028	0.034
Navarra	0.006	0.008	0.016	0.025	0.033	0.041
País.Vasco	0.009	0.009	0.018	0.027	0.035	0.044
La.Rioja	0.006	0.007	0.013	0.018	0.022	0.025

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

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

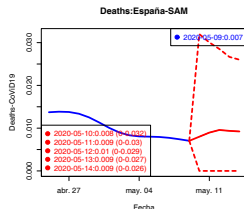
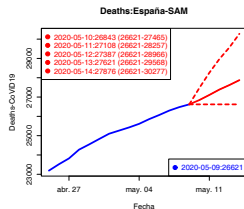
	Last	H1	H2	H3	H4	H5
España	0.007	0.014	0.028	0.041	0.054	0.067
Andalucía	0.007	0.014	0.028	0.042	0.055	0.067
Aragón	0.010	0.014	0.028	0.041	0.054	0.067
Asturias	0.006	0.015	0.030	0.044	0.058	0.071
Islas.Baleares	0.013	0.015	0.029	0.043	0.056	0.069
Canarias	0.007	0.014	0.028	0.041	0.053	0.066
Cantabria	0.002	0.014	0.027	0.040	0.052	0.064
Castilla.La.Mancha	0.010	0.015	0.029	0.043	0.056	0.069
Castilla.y.León	0.006	0.014	0.028	0.041	0.054	0.067
Cataluña	0.008	0.015	0.030	0.044	0.058	0.071
Ceuta	0.000	0.013	0.025	0.037	0.049	0.060
Comunidad.Valenciana	0.006	0.014	0.027	0.040	0.053	0.065
Extremadura	0.008	0.014	0.028	0.041	0.054	0.066
Galicia	0.004	0.022	0.043	0.063	0.083	0.103
Madrid	0.005	0.014	0.027	0.040	0.052	0.064
Melilla	0.000	0.013	0.025	0.037	0.049	0.060
Murcia	0.006	0.014	0.027	0.040	0.052	0.064
Navarra	0.006	0.014	0.028	0.041	0.054	0.066
País.Vasco	0.009	0.014	0.028	0.042	0.055	0.067
La.Rioja	0.006	0.014	0.027	0.040	0.052	0.064

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

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

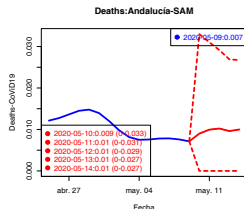
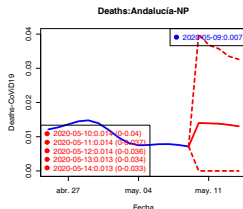
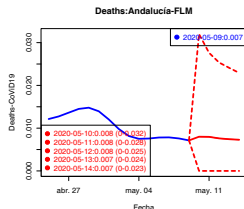
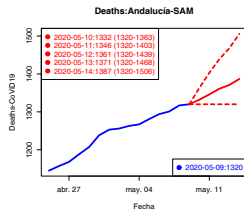
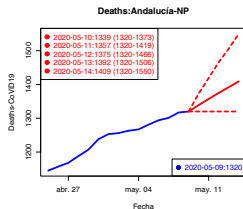
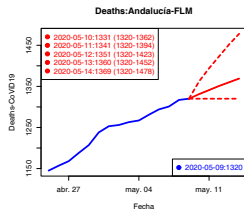
	Last	H1	H2	H3	H4	H5
España	0.007	0.008	0.018	0.029	0.038	0.047
Andalucía	0.007	0.009	0.020	0.031	0.039	0.051
Aragón	0.010	0.012	0.024	0.038	0.054	0.068
Asturias	0.006	0.009	0.017	0.022	0.027	0.031
Islas.Baleares	0.013	0.009	0.020	0.031	0.035	0.049
Canarias	0.007	0.008	0.019	0.032	0.040	0.053
Cantabria	0.002	0.006	0.012	0.020	0.030	0.034
Castilla.La.Mancha	0.010	0.011	0.022	0.035	0.048	0.061
Castilla.y.León	0.006	0.009	0.019	0.031	0.042	0.053
Cataluña	0.008	0.009	0.018	0.028	0.034	0.041
Ceuta	0.000	0.005	0.013	0.021	0.034	0.045
Comunidad.Valenciana	0.006	0.008	0.018	0.030	0.041	0.053
Extremadura	0.008	0.009	0.019	0.030	0.038	0.050
Galicia	0.004	0.006	0.012	0.021	0.025	0.041
Madrid	0.005	0.006	0.015	0.025	0.034	0.043
Melilla	0.000	0.003	0.009	0.016	0.027	0.036
Murcia	0.006	0.010	0.021	0.036	0.053	0.068
Navarra	0.006	0.011	0.024	0.038	0.052	0.069
País.Vasco	0.009	0.010	0.021	0.034	0.045	0.057
La.Rioja	0.006	0.007	0.015	0.024	0.029	0.038

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



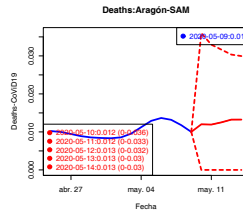
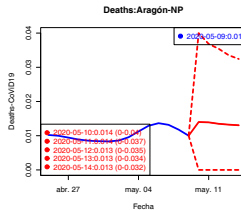
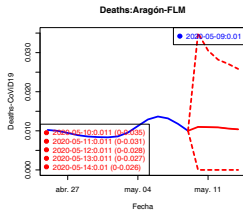
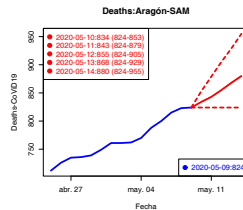
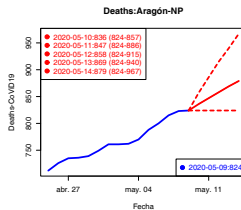
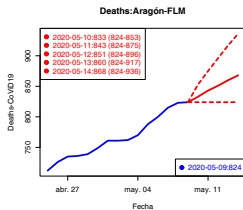
◀ Confirmados ◀ Fallecidos

Fallecidos: Andalucía



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

Fallecidos: Aragón

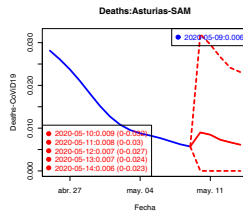
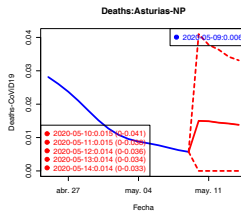
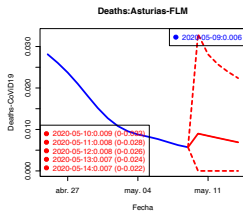
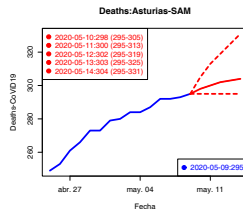
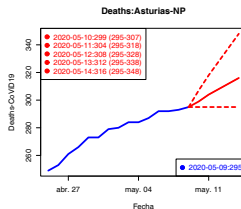
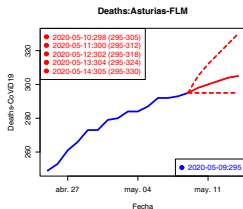


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

[← Fallecidos](#)

Fallecidos: Asturias

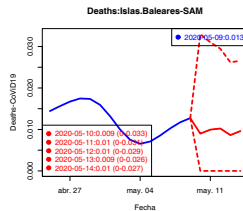
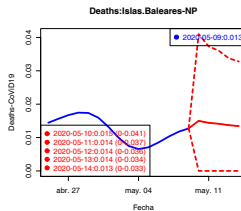
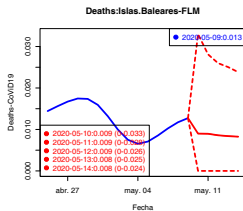
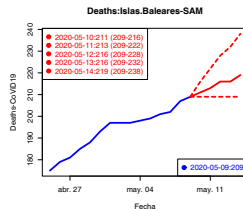
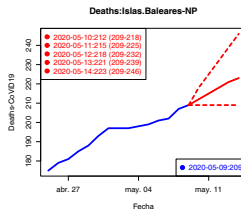
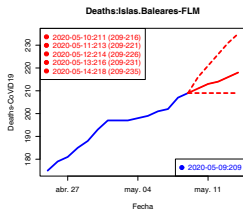


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Islas Baleares

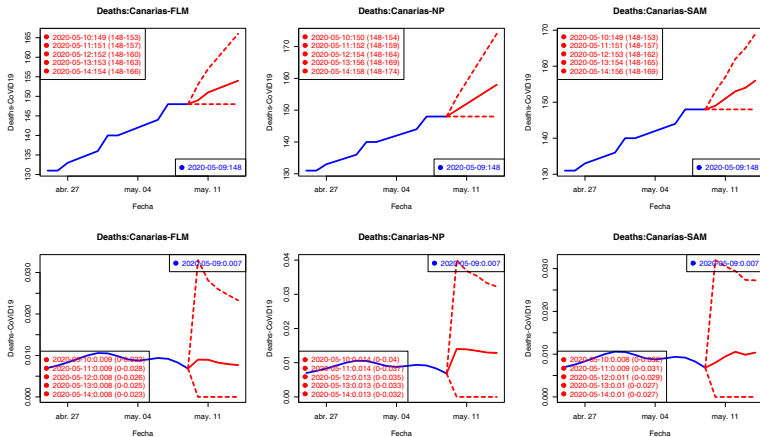


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Canarias

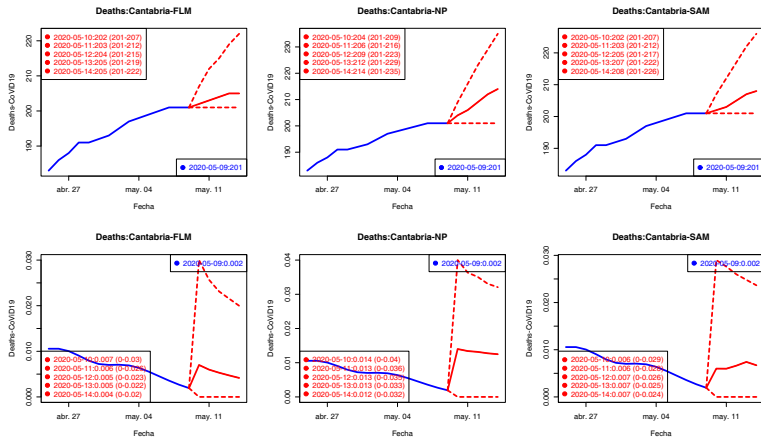


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cantabria

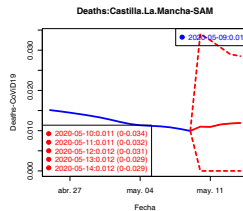
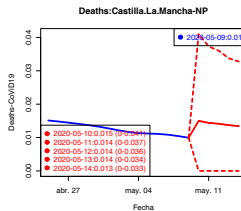
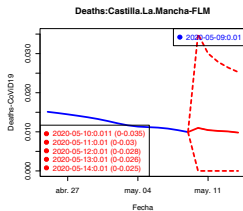
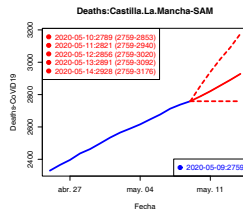
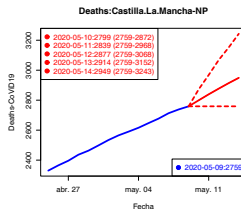
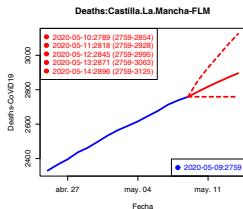


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla-La Mancha

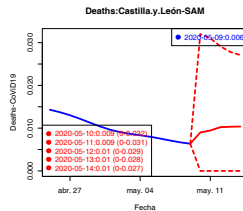
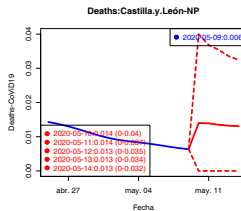
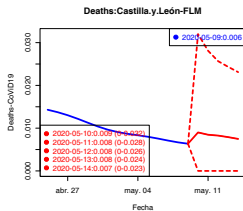
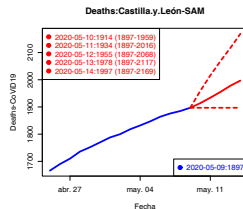
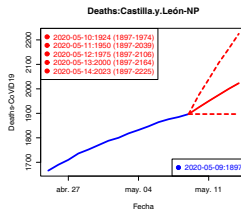
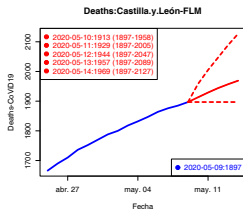


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

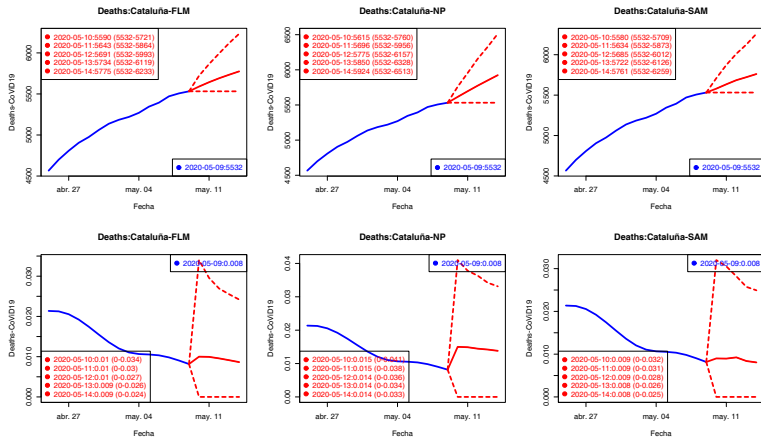


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cataluña

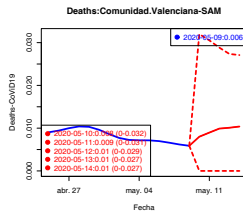
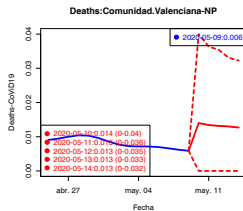
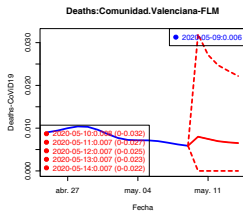
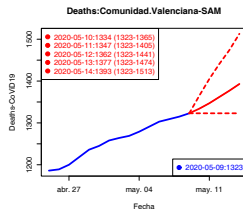
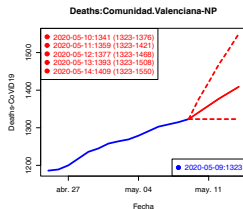
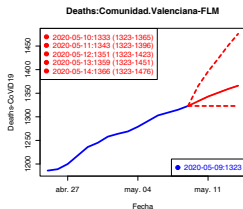


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: C. Valenciana

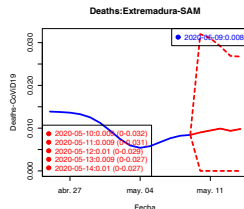
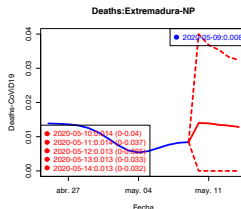
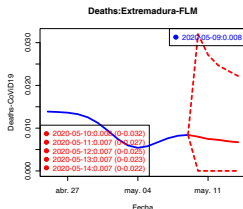
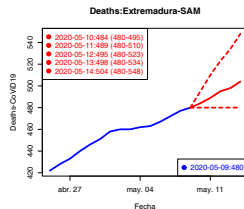
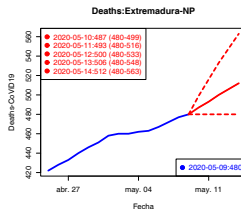
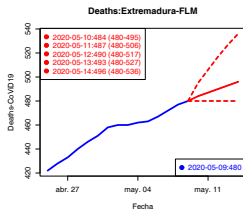


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Extremadura

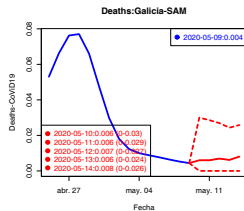
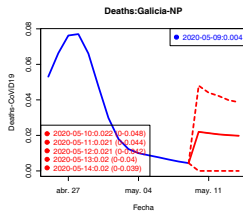
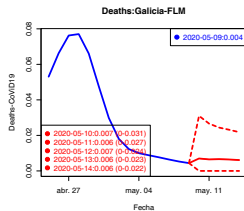
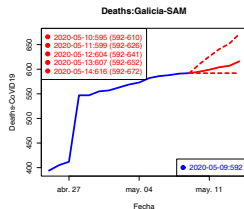
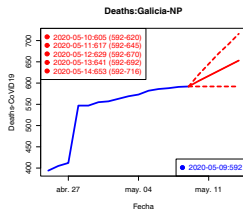
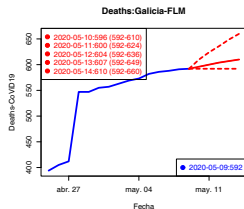


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Galicia

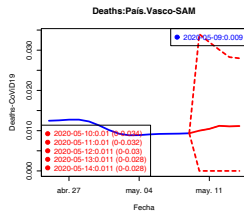
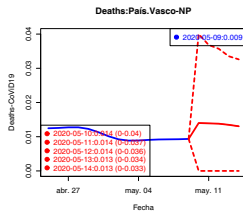
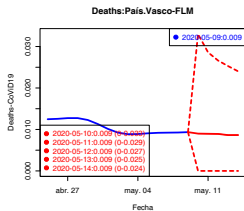
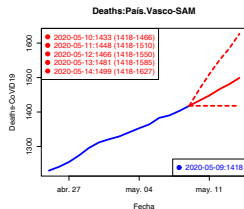
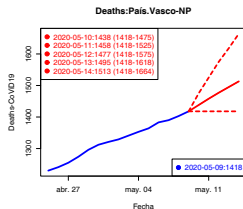
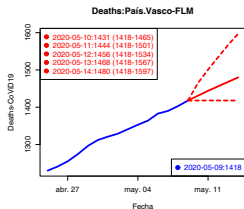


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

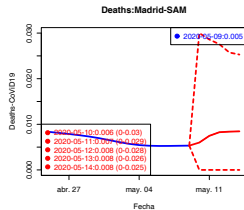
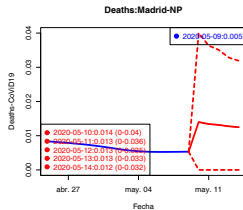
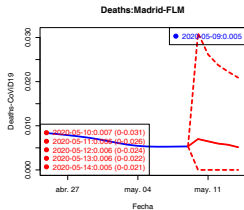
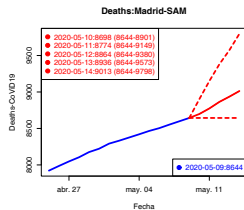
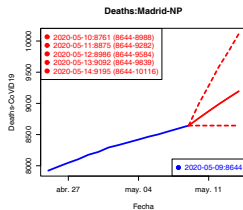
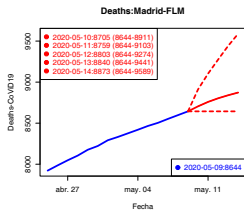
← Fallecidos

Fallecidos: País Vasco



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

Fallecidos: Madrid

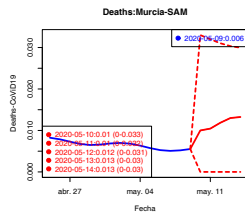
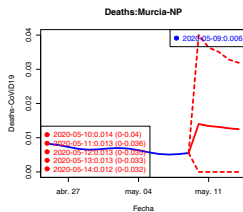
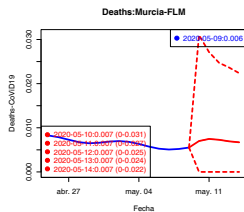
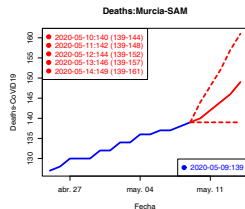
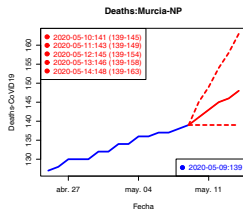
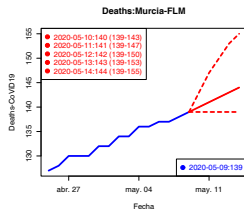


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Murcia

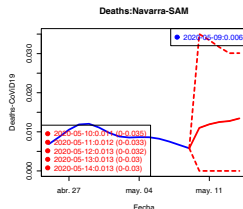
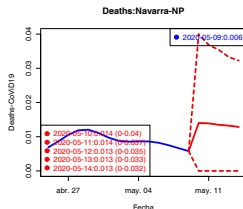
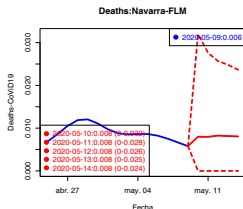
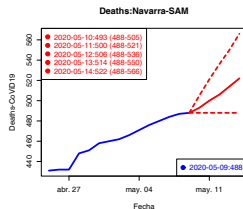
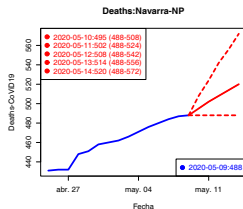
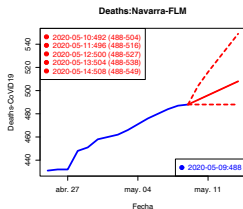


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Navarra

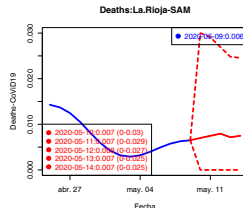
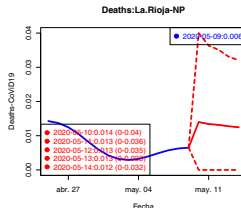
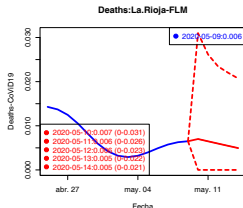
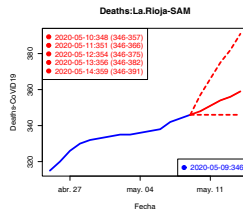
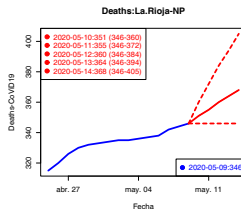
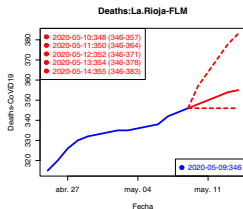


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: La Rioja



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

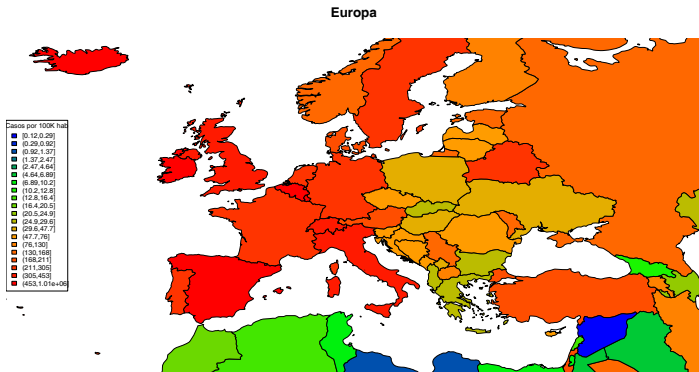
◀ Confirmados

◀ Fallecidos

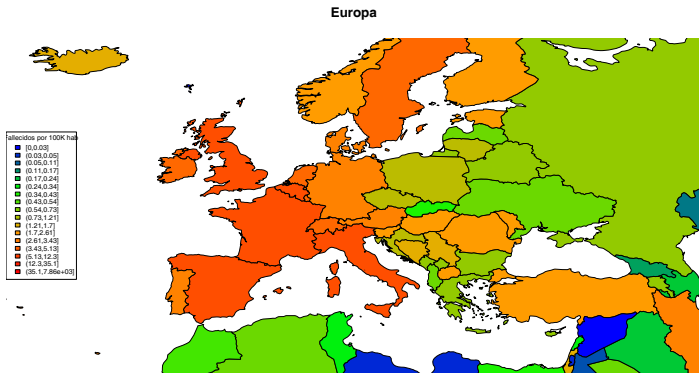
Table of Contents

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

Europa: Confirmados por 100K hab.

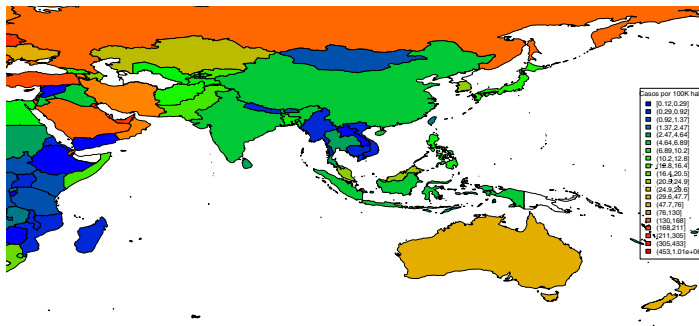


Europa: Fallecidos por 100K hab.



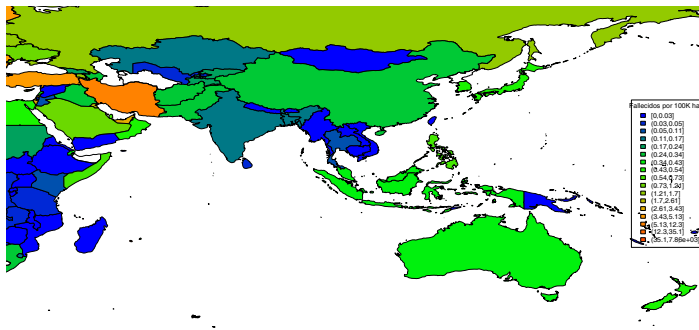
Asia y Oceanía: Casos por 100K hab.

Asia y Oceanía



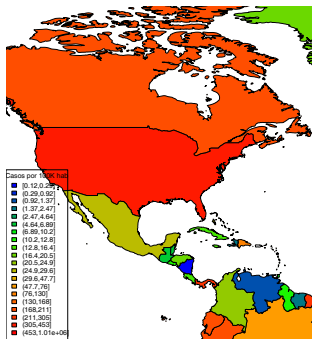
Asia y Oceanía: Fallecidos por 100K hab.

Asia y Oceanía

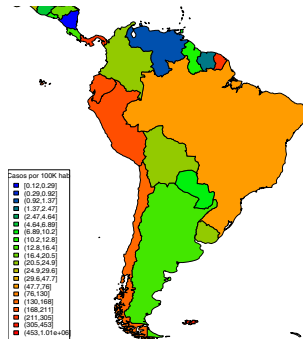


América: Casos por 100K hab.

América del Norte

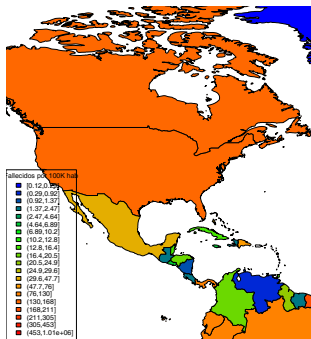


América del sur

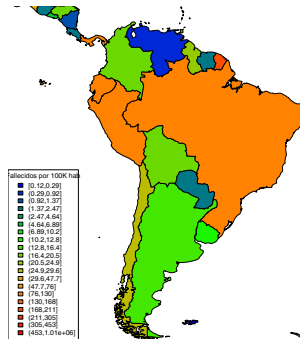


América: Fallecidos por 100K hab.

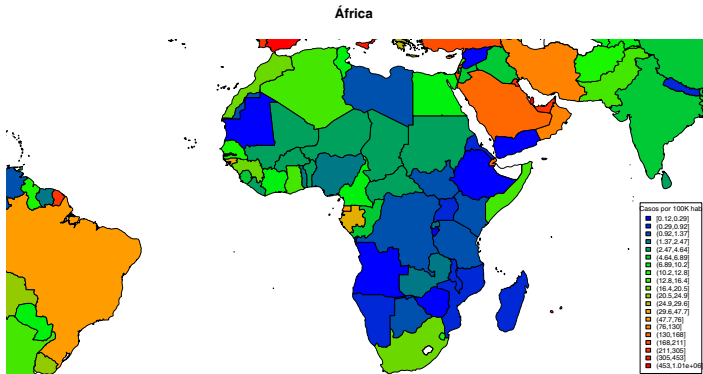
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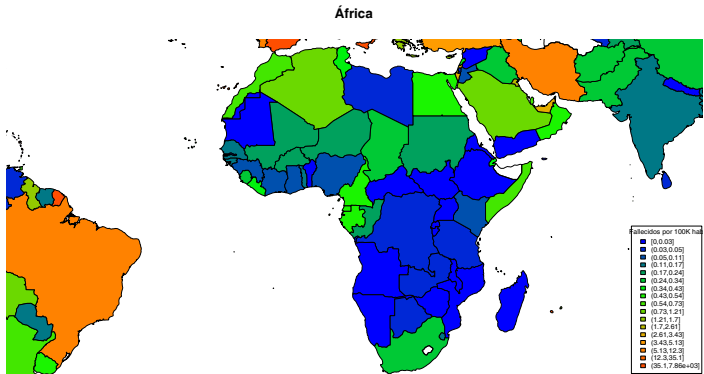
América del sur



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.