

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: 5562

Países/Regiones distintos incorporados: 160

Predicciones:

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

	σ_R^2			$\sigma_R^2(rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0.001	0.001	0.001	0.001	0	0.001	0.555	0.743	0.573
H2	0.002	0.001	0.002	0.002	0.001	0.002	0.678	0.824	0.695
H3	0.004	0.003	0.004	0.004	0.003	0.004	0.724	0.845	0.734
H4	0.007	0.004	0.007	0.007	0.005	0.007	0.743	0.857	0.752
H5	0.012	0.007	0.011	0.012	0.008	0.011	0.746	0.863	0.756

Último dato: 2020-05-11 21:00 que se publica 2020-05-12 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	269520	272091	274602	277214	279645	281847
Andalucía	15522	15664	15805	15956	16087	16202
Aragón	6797	6868	6941	7018	7079	7131
Asturias	3226	3251	3273	3295	3314	3328
Islas.Baleares	2058	2068	2077	2085	2093	2098
Canarias	2268	2277	2285	2293	2300	2306
Cantabria	2691	2704	2715	2727	2733	2737
Castilla.La.Mancha	24051	24349	24653	24978	25284	25576
Castilla.y.León	24170	24500	24831	25171	25489	25782
Cataluña	56787	57564	58389	59271	60240	61204
Ceuta	173	175	178	180	181	182
Comunidad.Valenciana	13937	14063	14183	14310	14425	14523
Extremadura	3920	3944	3969	3997	4020	4038
Galicia	10737	10839	10935	11032	11112	11182
Madrid	69849	70129	70334	70526	70641	70691
Melilla	132	132	132	132	132	132
Murcia	2333	2369	2404	2439	2465	2487
Navarra	7637	7776	7916	8057	8173	8272
País.Vasco	17840	18027	18206	18389	18540	18662
La.Rioja	5392	5415	5433	5449	5459	5464

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

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	269520	270924	272314	273715	275083	276426
Andalucía	15522	15615	15706	15798	15888	15975
Aragón	6797	6851	6903	6956	7006	7056
Asturias	3226	3244	3261	3279	3296	3313
Islas Baleares	2058	2063	2069	2074	2080	2086
Canarias	2268	2273	2278	2282	2288	2293
Cantabria	2691	2703	2716	2728	2740	2751
Castilla.La.Mancha	24051	24258	24462	24666	24865	25058
Castilla.y.León	24170	24396	24618	24840	25055	25265
Cataluña	56787	57100	57411	57727	58039	58347
Ceuta	173	175	177	178	180	182
Comunidad.Valenciana	13937	14039	14140	14241	14339	14434
Extremadura	3920	3936	3953	3969	3985	4001
Galicia	10737	10793	10848	10903	10957	11010
Madrid	69849	70024	70199	70378	70559	70742
Melilla	132	132	133	133	134	134
Murcia	2333	2360	2387	2413	2438	2463
Navarra	7637	7739	7840	7938	8034	8128
País.Vasco	17840	17979	18117	18253	18385	18513
La.Rioja	5392	5406	5420	5434	5448	5462

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

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.008	0.010	0.019	0.029	0.038	0.046
Andalucía	0.007	0.009	0.018	0.028	0.036	0.044
Aragón	0.008	0.010	0.021	0.033	0.041	0.049
Asturias	0.006	0.008	0.015	0.021	0.027	0.032
Islas.Baleares	0.003	0.005	0.009	0.013	0.017	0.020
Canarias	0.003	0.004	0.008	0.011	0.014	0.017
Cantabria	0.002	0.005	0.009	0.013	0.016	0.017
Castilla.La.Mancha	0.011	0.012	0.025	0.039	0.051	0.063
Castilla.y.León	0.012	0.014	0.027	0.041	0.055	0.067
Cataluña	0.014	0.014	0.028	0.044	0.061	0.078
Ceuta	0.010	0.014	0.027	0.039	0.047	0.054
Comunidad.Valenciana	0.007	0.009	0.018	0.027	0.035	0.042
Extremadura	0.004	0.006	0.012	0.020	0.026	0.030
Galicia	0.006	0.010	0.018	0.027	0.035	0.041
Madrid	0.001	0.004	0.007	0.010	0.011	0.012
Melilla	0.000	0.001	0.001	0.000	0.000	0.000
Murcia	0.009	0.016	0.030	0.045	0.057	0.066
Navarra	0.014	0.018	0.037	0.055	0.070	0.083
País.Vasco	0.007	0.010	0.021	0.031	0.039	0.046
La.Rioja	0.002	0.004	0.008	0.011	0.012	0.013

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	0.008	0.005	0.010	0.016	0.021	0.026
Andalucía	0.007	0.006	0.012	0.018	0.024	0.029
Aragón	0.008	0.008	0.016	0.023	0.031	0.038
Asturias	0.006	0.006	0.011	0.016	0.022	0.027
Islas.Baleares	0.003	0.003	0.005	0.008	0.011	0.013
Canarias	0.003	0.002	0.004	0.006	0.009	0.011
Cantabria	0.002	0.005	0.009	0.014	0.018	0.022
Castilla.La.Mancha	0.011	0.009	0.017	0.026	0.034	0.042
Castilla.y.León	0.012	0.009	0.019	0.028	0.037	0.045
Cataluña	0.014	0.006	0.011	0.017	0.022	0.027
Ceuta	0.010	0.010	0.021	0.031	0.040	0.050
Comunidad.Valenciana	0.007	0.007	0.015	0.022	0.029	0.036
Extremadura	0.004	0.004	0.008	0.013	0.017	0.021
Galicia	0.006	0.005	0.010	0.015	0.020	0.025
Madrid	0.001	0.002	0.005	0.008	0.010	0.013
Melilla	0.000	0.003	0.006	0.009	0.012	0.015
Murcia	0.009	0.012	0.023	0.034	0.045	0.056
Navarra	0.014	0.013	0.027	0.039	0.052	0.064
País.Vasco	0.007	0.008	0.016	0.023	0.031	0.038
La.Rioja	0.002	0.003	0.005	0.008	0.010	0.013

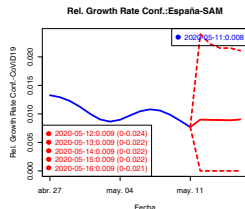
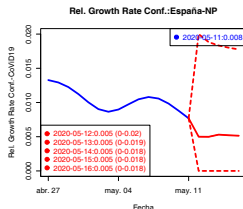
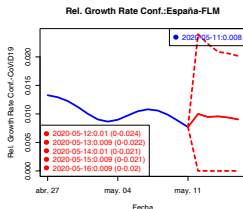
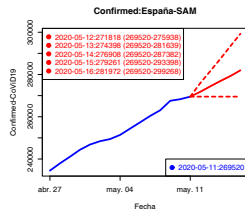
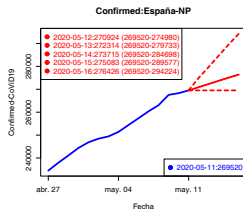
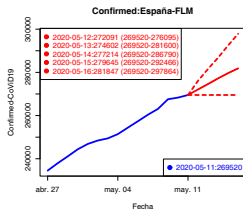
Cuadro: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.008	0.009	0.018	0.027	0.036	0.046
Andalucía	0.007	0.008	0.018	0.027	0.035	0.044
Aragón	0.008	0.009	0.019	0.029	0.036	0.043
Asturias	0.006	0.007	0.012	0.017	0.022	0.028
Islas.Baleares	0.003	0.003	0.007	0.010	0.014	0.018
Canarias	0.003	0.002	0.005	0.008	0.010	0.014
Cantabria	0.002	0.003	0.008	0.010	0.013	0.015
Castilla.La.Mancha	0.011	0.011	0.026	0.040	0.052	0.065
Castilla.y.León	0.012	0.014	0.028	0.041	0.055	0.068
Cataluña	0.014	0.012	0.032	0.048	0.064	0.087
Ceuta	0.010	0.013	0.025	0.034	0.039	0.044
Comunidad.Valenciana	0.007	0.008	0.016	0.025	0.032	0.041
Extremadura	0.004	0.005	0.012	0.019	0.025	0.032
Galicia	0.006	0.010	0.019	0.026	0.034	0.041
Madrid	0.001	0.003	0.004	0.006	0.007	0.009
Melilla	0.000	0.000	0.000	0.000	0.000	0.000
Murcia	0.009	0.020	0.034	0.047	0.058	0.068
Navarra	0.014	0.020	0.034	0.050	0.064	0.076
País.Vasco	0.007	0.010	0.019	0.028	0.036	0.044
La.Rioja	0.002	0.003	0.004	0.006	0.008	0.009

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

Confirmados: España

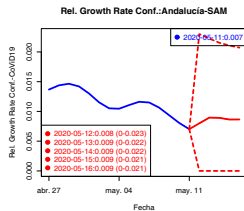
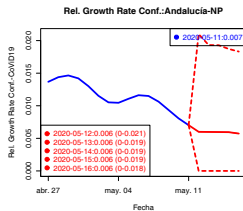
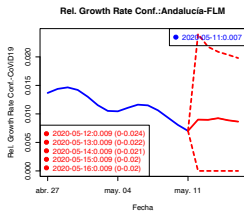
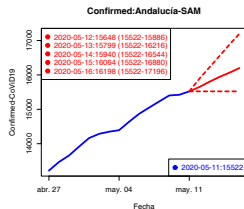
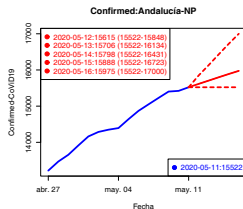
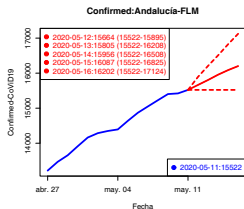


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Andalucía

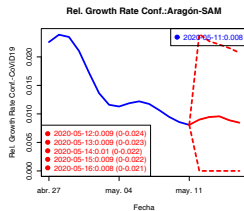
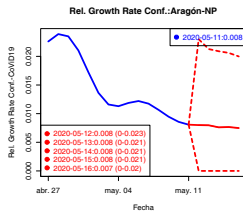
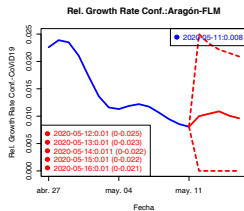
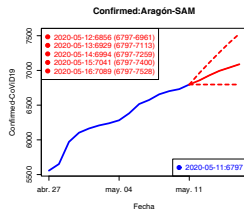
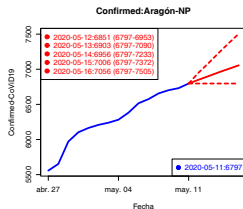
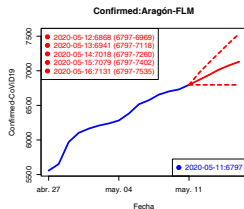


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

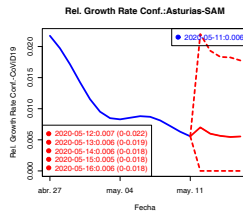
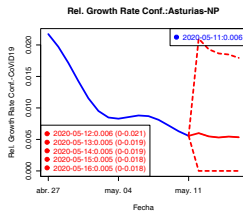
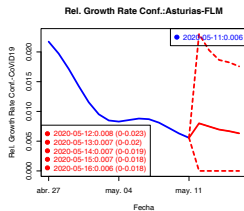
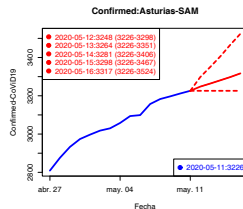
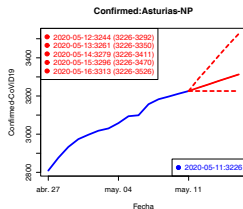
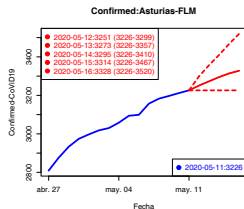


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

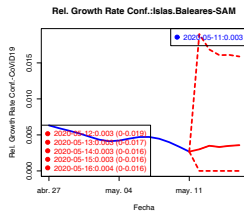
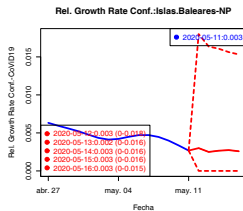
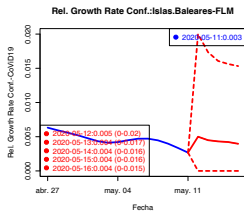
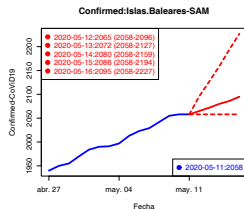
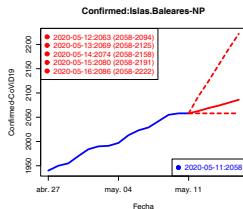
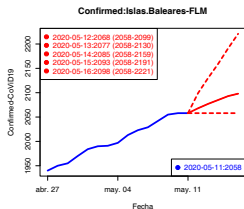


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

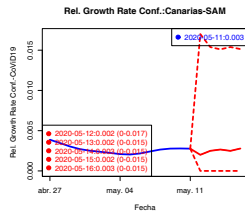
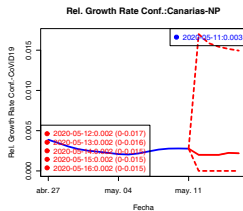
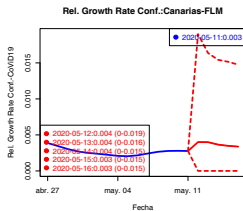
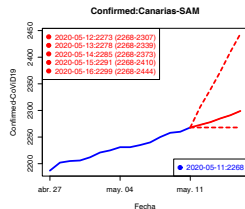
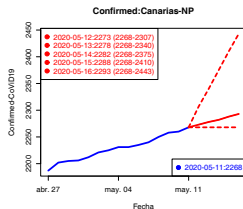
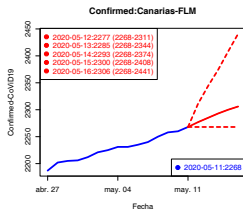


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

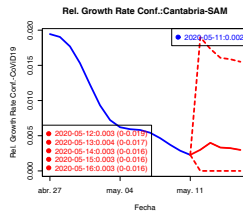
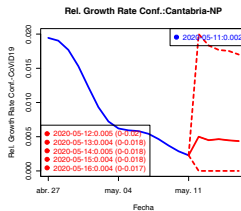
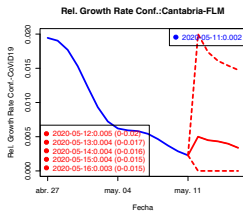
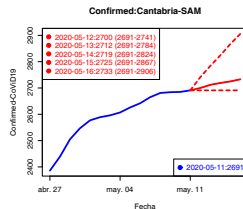
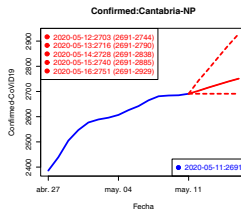
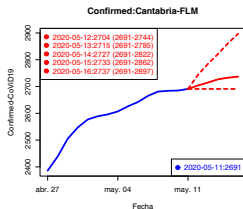


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

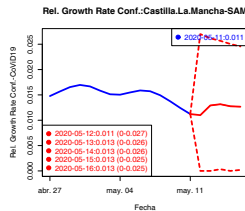
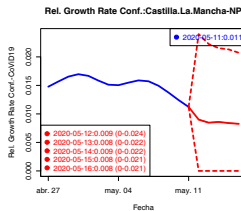
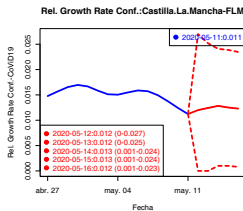
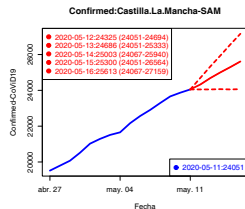
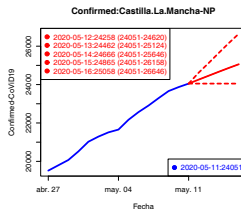
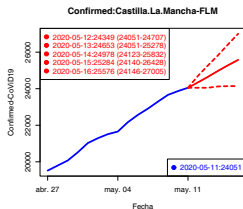


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla-La Mancha

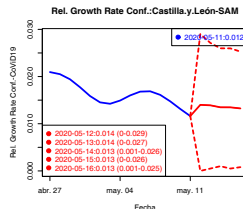
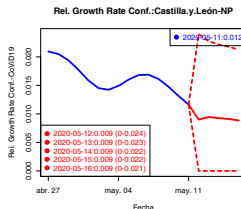
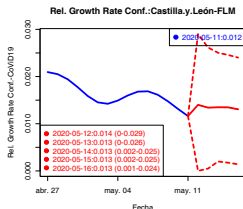
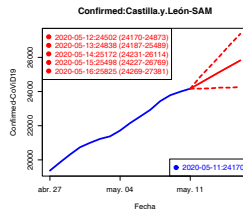
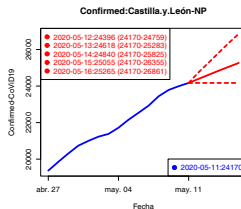
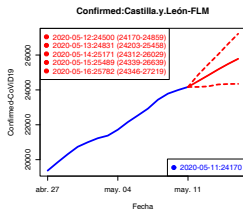


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

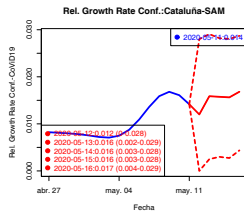
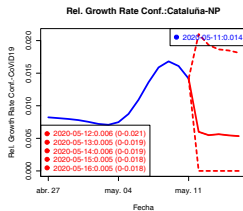
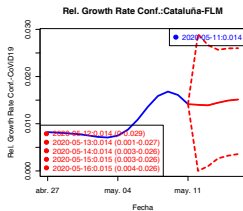
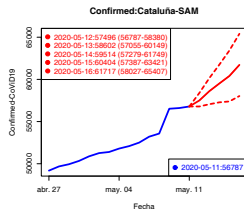
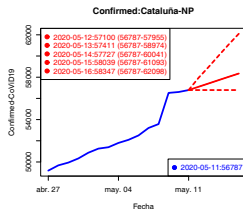
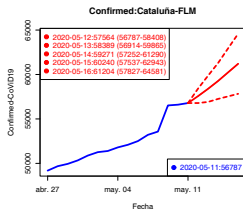


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña



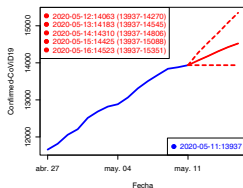
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

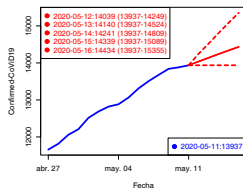
◀ Fallecidos

Confirmados: C. Valenciana

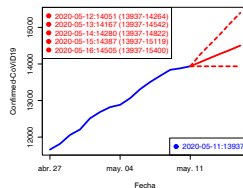
Confirmed:Comunidad.Valenciana-FLM



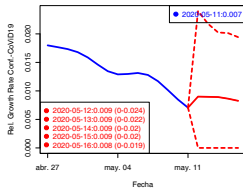
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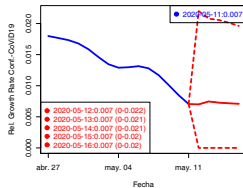
Confirmed:Comunidad.Valenciana-SAM



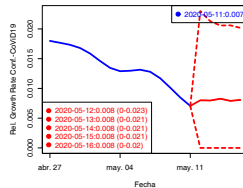
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Rel. Growth Rate Conf.:Comunidad.Valenciana-NP



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



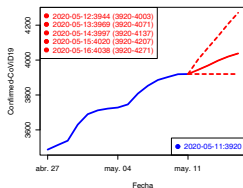
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

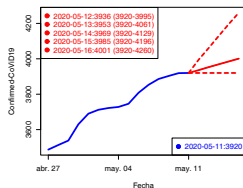
◀ Fallecidos

Confirmados: Extremadura

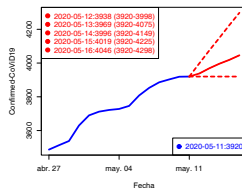
Confirmed:Extremadura-FLM



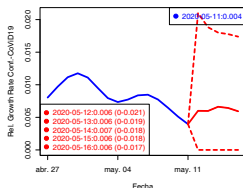
Confirmed:Extremadura-NP



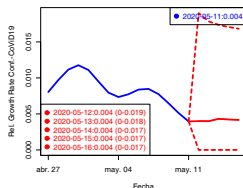
Confirmed:Extremadura-SAM



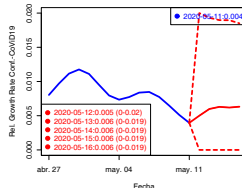
Rel. Growth Rate Conf.:Extremadura-FLM



Rel. Growth Rate Conf.:Extremadura-NP



Rel. Growth Rate Conf.:Extremadura-SAM

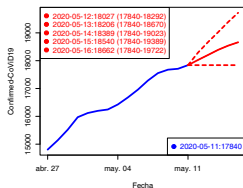


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

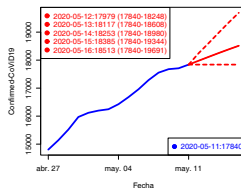
[← Confirmados](#)
[← Fallecidos](#)

Confirmados: País Vasco

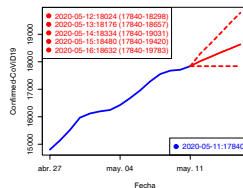
Confirmed:País.Vasco-FLM



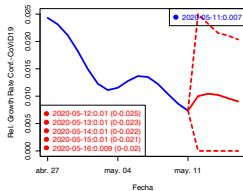
Confirmed:País.Vasco-NP



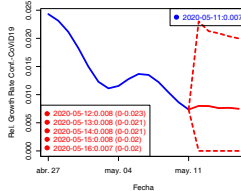
Confirmed:País.Vasco-SAM



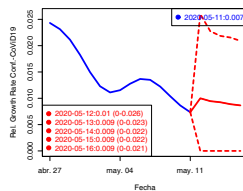
Rel. Growth Rate Conf.:País.Vasco-FLM



Rel. Growth Rate Conf.:País.Vasco-NP



Rel. Growth Rate Conf.:País.Vasco-SAM



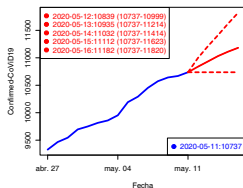
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

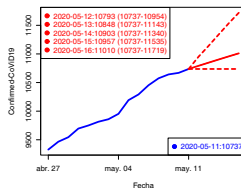
◀ Fallecidos

Confirmados: Galicia

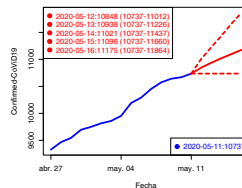
Confirmed:Galicia-FLM



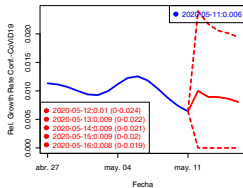
Confirmed:Galicia-NP



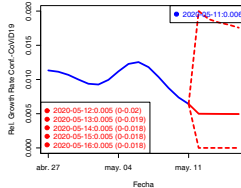
Confirmed:Galicia-SAM



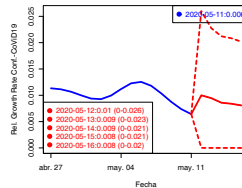
Rel. Growth Rate Conf.:Galicia-FLM



Rel. Growth Rate Conf.:Galicia-NP



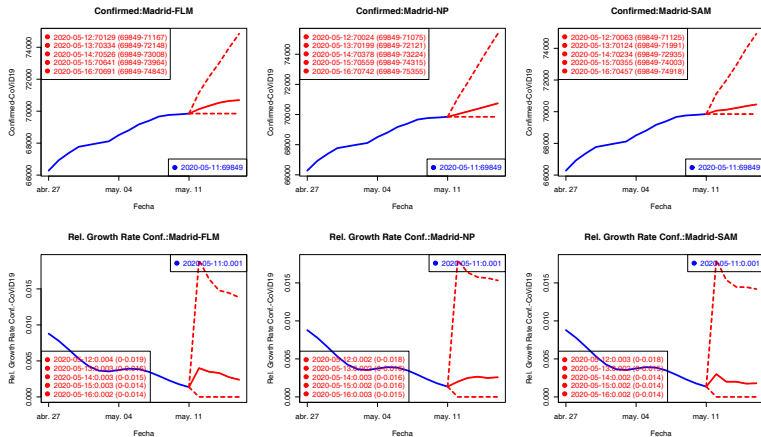
Rel. Growth Rate Conf.:Galicia-SAM



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

[◀ Confirmados](#)
[◀ Fallecidos](#)

Confirmados: Madrid

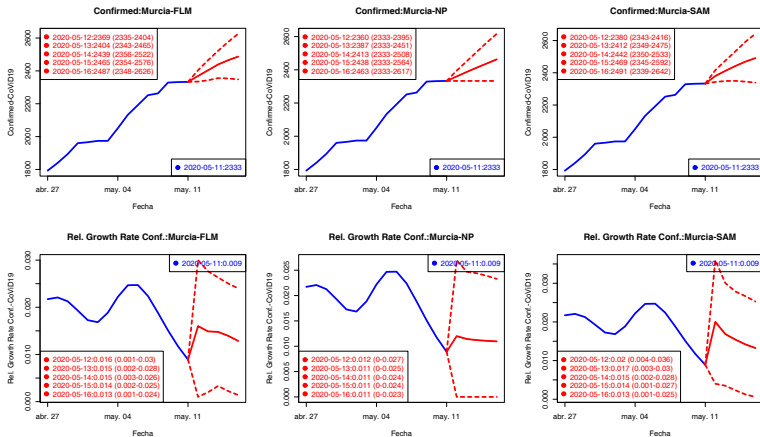


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

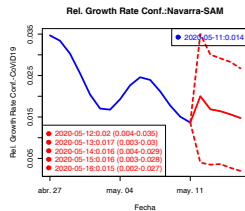
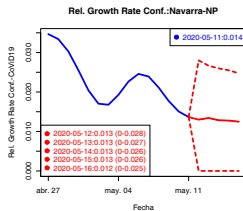
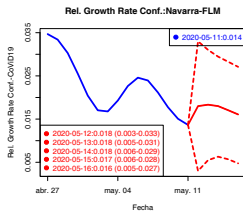
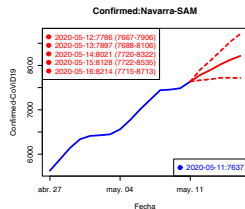
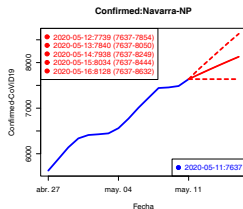
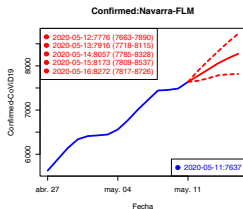


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Navarra

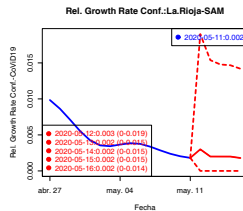
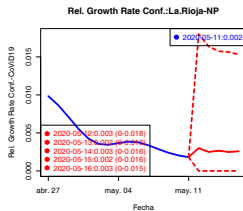
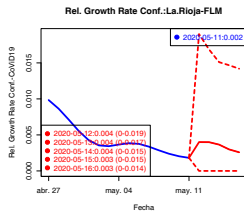
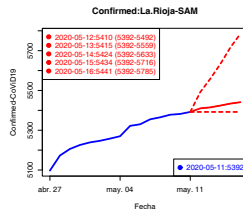
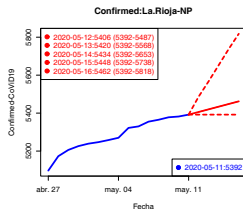
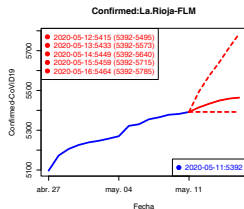


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ 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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 - Predicciones
- 2 Fallecidos
 - Predicciones Fallecidos
- 3 Panorama internacional

Modelos para fallecidos por CoViD-19

> Error in eval(expr, envir, enclos): objeto 'nam1' no encontrado

Número de datos funcionales: 6679

Países/Regiones distintos incorporados: 83

Predicciones:

▶ España

▶ Andalucía

▶ Aragón

▶ Asturias

▶ I. Baleares

▶ Canarias

▶ Cantabria

▶ Castilla-La Mancha

▶ Castilla y León

▶ Cataluña

▶ C. Valenciana

▶ Extremadura

▶ País Vasco

▶ Galicia

▶ Madrid

▶ Murcia

▶ Navarra

▶ La Rioja

▶ Mod Lineal

▶ Mod NP

▶ Mod Aditivo

	σ_R^2			$\sigma_R^2(rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0.001	0.001	0.001	0.001	0.001	0.001	0.519	0.511	0.555
H2	0.002	0.002	0.002	0.002	0.002	0.002	0.628	0.615	0.681
H3	0.004	0.004	0.003	0.004	0.004	0.004	0.683	0.666	0.74
H4	0.006	0.006	0.005	0.007	0.007	0.006	0.719	0.697	0.779
H5	0.009	0.01	0.007	0.013	0.012	0.009	0.736	0.71	0.797

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	26920	27151	27360	27537	27682	27811
Andalucía	1326	1336	1346	1353	1359	1363
Aragón	828	836	844	850	855	861
Asturias	304	307	310	312	314	316
Islas.Baleares	210	212	214	215	217	218
Canarias	151	152	154	155	156	157
Cantabria	203	204	205	206	206	207
Castilla.La.Mancha	2811	2840	2868	2893	2916	2938
Castilla.y.León	1914	1929	1943	1955	1964	1973
Cataluña	5621	5677	5733	5784	5830	5873
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1336	1346	1355	1363	1368	1373
Extremadura	487	491	495	498	501	504
Galicia	595	603	609	613	612	610
Madrid	8720	8782	8833	8875	8905	8930
Melilla	2	2	2	2	2	2
Murcia	139	140	141	141	141	142
Navarra	493	497	501	504	506	508
País.Vasco	1429	1442	1454	1464	1472	1479
La.Rioja	347	350	352	353	354	355

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	26920	27291	27650	27993	28316	28628
Andalucía	1326	1344	1362	1379	1395	1411
Aragón	828	839	850	861	871	880
Asturias	304	308	313	317	320	324
Islas Baleares	210	213	216	219	221	224
Canarias	151	153	155	157	159	161
Cantabria	203	206	208	211	213	215
Castilla La Mancha	2811	2851	2890	2927	2962	2996
Castilla y León	1914	1940	1965	1990	2012	2034
Cataluña	5621	5702	5780	5854	5925	5993
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1336	1354	1372	1388	1404	1419
Extremadura	487	494	500	506	512	518
Galicia	595	606	618	628	638	649
Madrid	8720	8835	8947	9054	9153	9250
Melilla	2	2	2	2	2	2
Murcia	139	141	143	144	146	147
Navarra	493	500	506	513	519	524
País Vasco	1429	1449	1468	1486	1504	1520
La Rioja	347	352	356	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	26920	27117	27338	27578	27800	28018
Andalucía	1326	1335	1345	1354	1363	1372
Aragón	828	836	843	850	860	867
Asturias	304	307	309	311	313	314
Islas Baleares	210	212	214	215	217	218
Canarias	151	152	154	155	156	158
Cantabria	203	204	205	206	207	208
Castilla La Mancha	2811	2838	2866	2897	2930	2959
Castilla y León	1914	1928	1943	1959	1977	1994
Cataluña	5621	5676	5737	5808	5857	5915
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1336	1344	1354	1365	1375	1385
Extremadura	487	491	495	499	504	507
Galicia	595	598	600	600	600	599
Madrid	8720	8769	8826	8893	8967	9034
Melilla	2	2	2	2	2	2
Murcia	139	140	140	141	143	145
Navarra	493	496	500	503	507	511
País Vasco	1429	1439	1450	1460	1472	1482
La Rioja	347	349	351	354	356	358

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.006	0.009	0.016	0.023	0.028	0.033
Andalucía	0.004	0.008	0.015	0.020	0.025	0.028
Aragón	0.004	0.010	0.019	0.026	0.033	0.039
Asturias	0.011	0.010	0.019	0.027	0.034	0.039
Islas.Baleares	0.007	0.010	0.018	0.026	0.032	0.038
Canarias	0.008	0.009	0.018	0.025	0.031	0.037
Cantabria	0.004	0.006	0.011	0.014	0.016	0.017
Castilla.La.Mancha	0.009	0.010	0.020	0.029	0.037	0.045
Castilla.y.León	0.005	0.008	0.015	0.021	0.026	0.031
Cataluña	0.008	0.010	0.020	0.029	0.037	0.045
Ceuta	0.000	0.003	0.005	0.006	0.005	0.003
Comunidad.Valenciana	0.005	0.008	0.015	0.020	0.024	0.028
Extremadura	0.008	0.009	0.017	0.023	0.029	0.034
Galicia	0.003	0.013	0.023	0.030	0.029	0.025
Madrid	0.005	0.007	0.013	0.018	0.021	0.024
Melilla	0.000	0.003	0.005	0.006	0.005	0.003
Murcia	0.002	0.006	0.011	0.015	0.017	0.019
Navarra	0.005	0.008	0.016	0.022	0.026	0.030
País.Vasco	0.006	0.009	0.017	0.024	0.030	0.035
La.Rioja	0.003	0.007	0.013	0.018	0.021	0.023

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

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	0.006	0.014	0.027	0.040	0.052	0.063
Andalucía	0.004	0.014	0.027	0.040	0.052	0.064
Aragón	0.004	0.014	0.027	0.040	0.052	0.063
Asturias	0.011	0.014	0.028	0.041	0.054	0.066
Islas.Baleares	0.007	0.014	0.028	0.041	0.053	0.065
Canarias	0.008	0.014	0.027	0.040	0.052	0.064
Cantabria	0.004	0.013	0.026	0.038	0.050	0.061
Castilla.La.Mancha	0.009	0.014	0.028	0.041	0.054	0.066
Castilla.y.León	0.005	0.014	0.027	0.040	0.051	0.063
Cataluña	0.008	0.014	0.028	0.042	0.054	0.066
Ceuta	0.000	0.012	0.024	0.036	0.046	0.057
Comunidad.Valenciana	0.005	0.014	0.027	0.039	0.051	0.062
Extremadura	0.008	0.014	0.027	0.040	0.051	0.063
Galicia	0.003	0.019	0.038	0.056	0.073	0.090
Madrid	0.005	0.013	0.026	0.038	0.050	0.061
Melilla	0.000	0.012	0.024	0.036	0.046	0.057
Murcia	0.002	0.013	0.026	0.038	0.050	0.061
Navarra	0.005	0.014	0.027	0.040	0.052	0.063
País.Vasco	0.006	0.014	0.027	0.040	0.052	0.064
La.Rioja	0.003	0.013	0.026	0.038	0.049	0.060

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

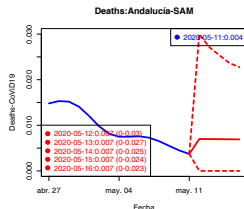
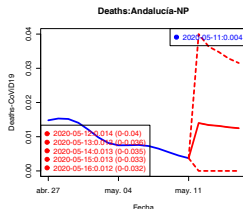
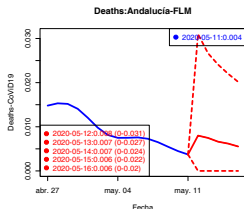
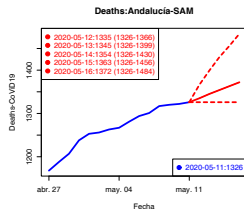
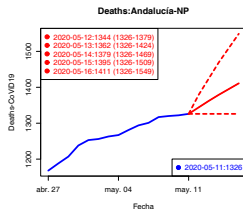
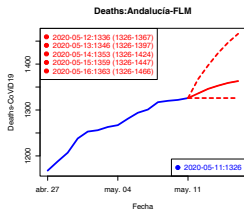
Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.006	0.007	0.016	0.024	0.033	0.041
Andalucía	0.004	0.007	0.014	0.021	0.028	0.035
Aragón	0.004	0.009	0.018	0.027	0.039	0.047
Asturias	0.011	0.008	0.016	0.022	0.029	0.034
Islas.Baleares	0.007	0.008	0.017	0.025	0.033	0.040
Canarias	0.008	0.008	0.017	0.027	0.036	0.045
Cantabria	0.004	0.004	0.008	0.014	0.018	0.023
Castilla.La.Mancha	0.009	0.009	0.020	0.030	0.042	0.053
Castilla.y.León	0.005	0.007	0.015	0.023	0.033	0.042
Cataluña	0.008	0.010	0.021	0.033	0.042	0.052
Ceuta	0.000	0.002	0.005	0.009	0.019	0.025
Comunidad.Valenciana	0.005	0.006	0.013	0.021	0.029	0.037
Extremadura	0.008	0.008	0.016	0.025	0.034	0.042
Galicia	0.003	0.005	0.009	0.009	0.008	0.007
Madrid	0.005	0.006	0.012	0.020	0.028	0.036
Melilla	0.000	0.002	0.005	0.012	0.019	0.025
Murcia	0.002	0.005	0.011	0.018	0.031	0.040
Navarra	0.005	0.007	0.014	0.020	0.029	0.036
País.Vasco	0.006	0.007	0.015	0.022	0.030	0.037
La.Rioja	0.003	0.005	0.011	0.019	0.026	0.033

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

◀ Confirmados

Fallecidos: Andalucía

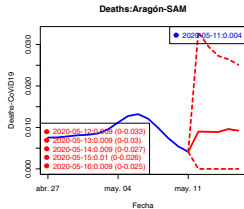
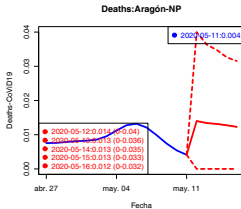
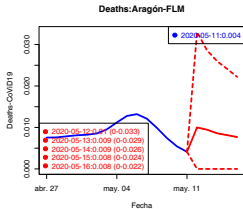
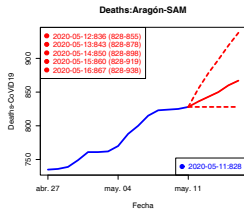
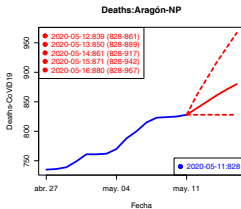
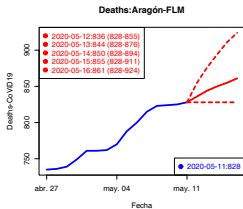


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

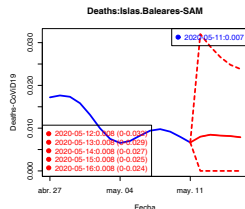
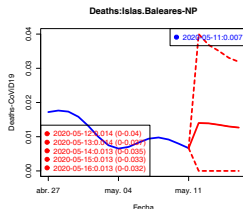
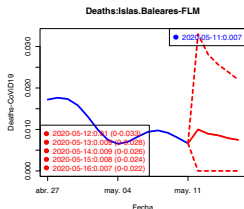
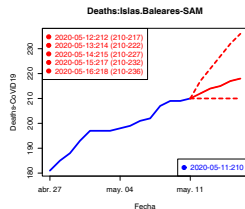
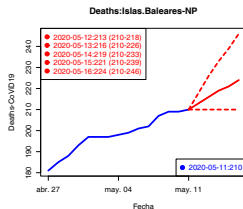
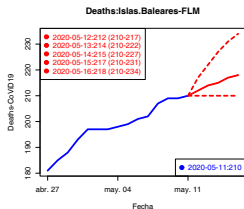
◀ Fallecidos

Fallecidos: Aragón



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

Fallecidos: Islas Baleares

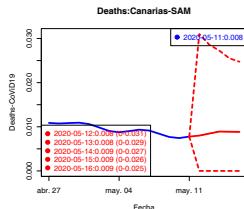
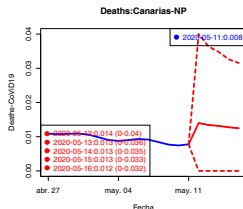
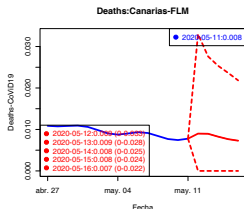
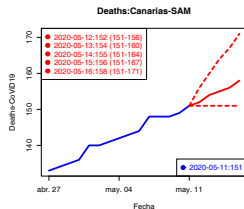
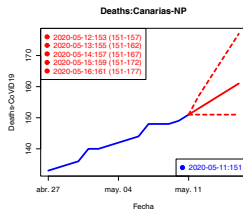
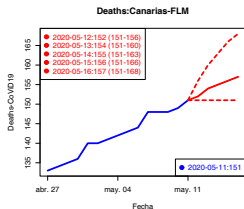


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Canarias

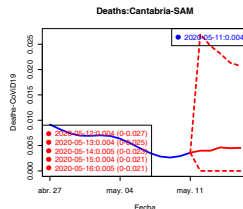
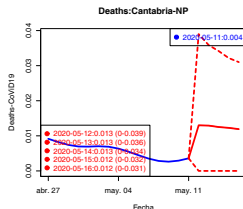
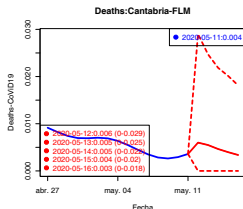
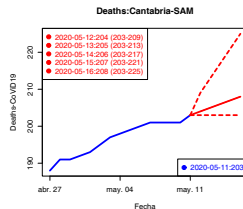
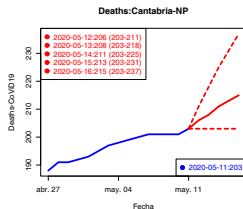
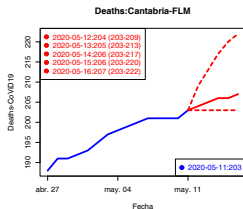


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cantabria

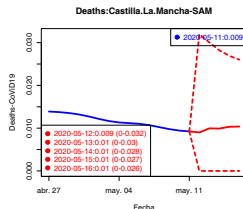
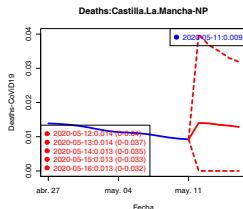
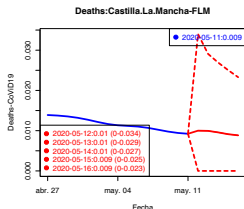
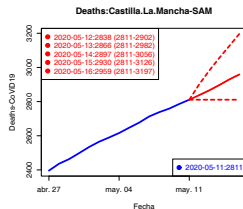
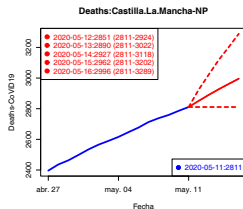
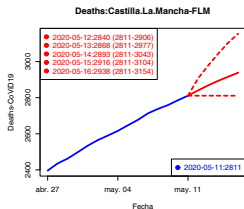


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla-La Mancha

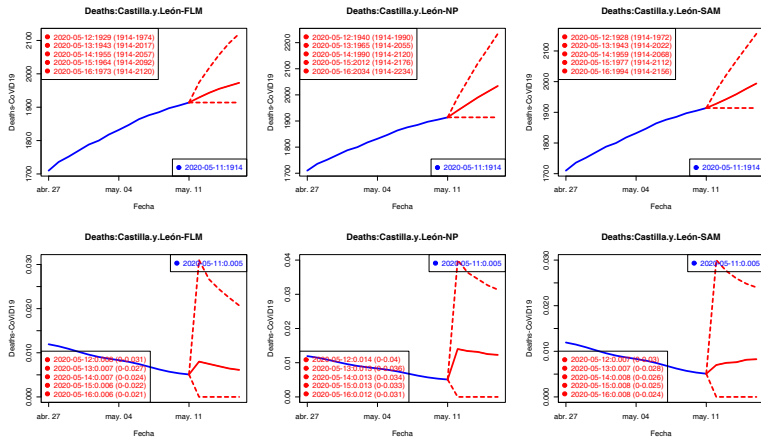


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

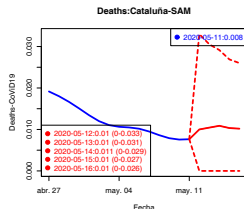
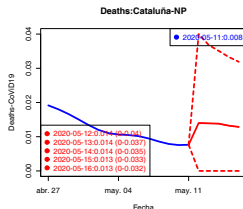
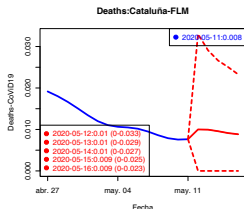
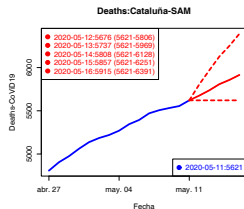
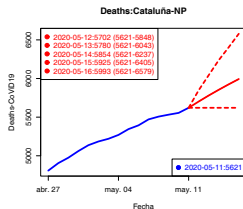
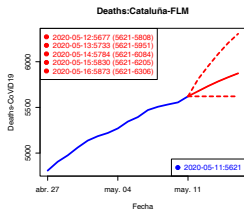


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cataluña

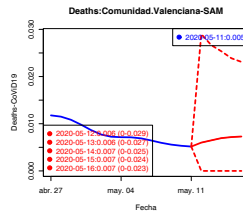
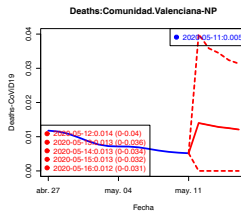
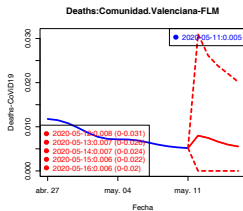
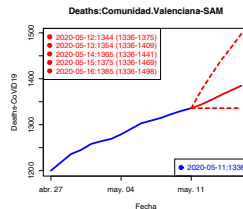
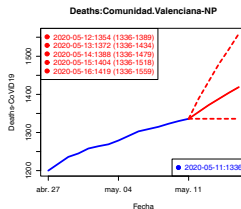
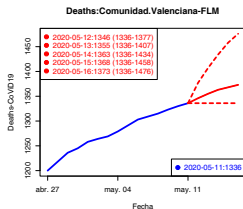


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: C. Valenciana

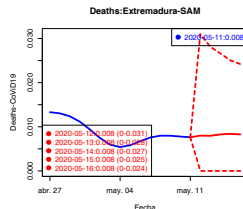
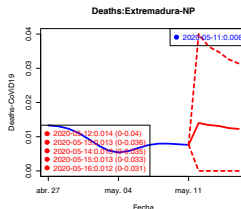
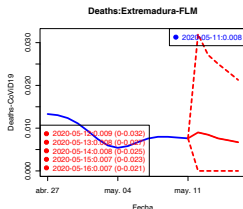
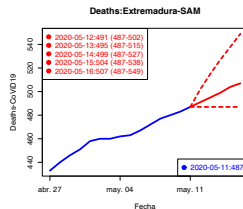
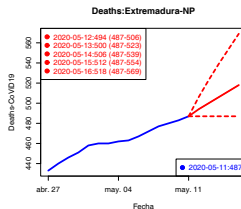
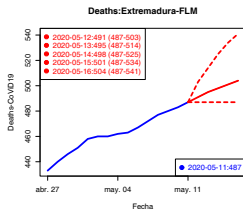


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Extremadura

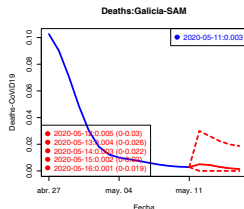
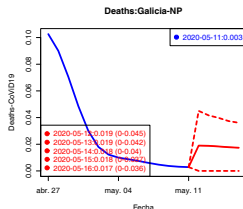
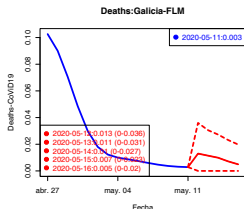
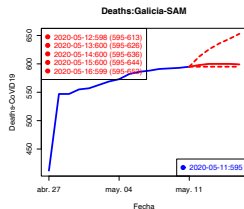
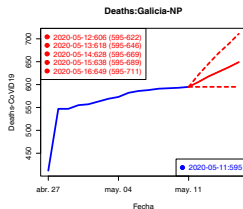
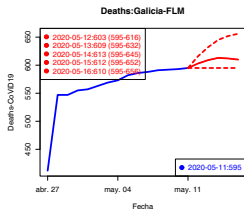


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Galicia

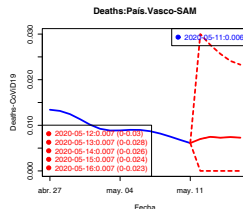
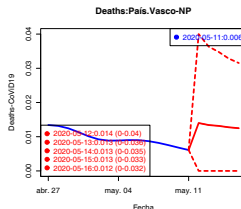
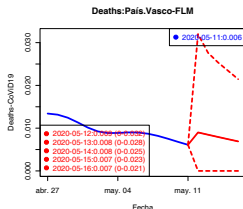
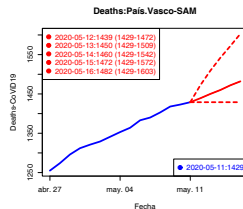
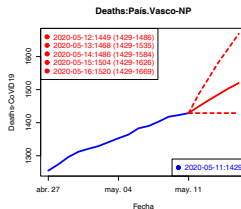
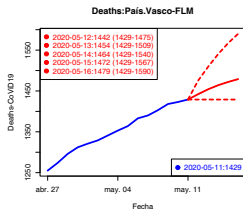


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: País Vasco

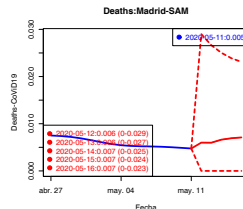
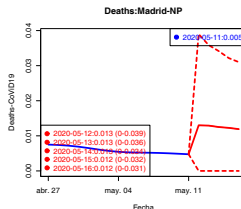
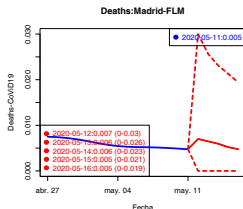
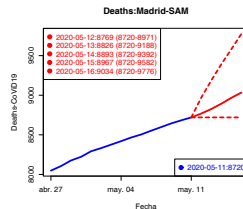
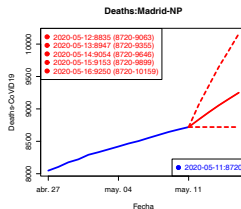
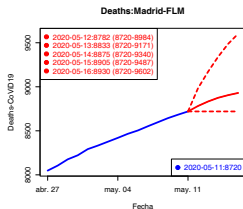


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Madrid

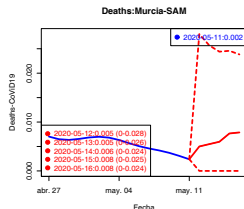
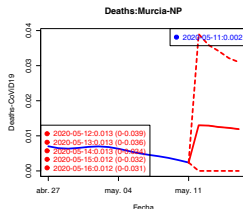
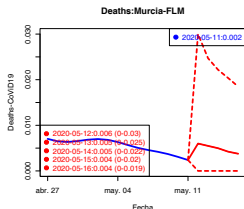
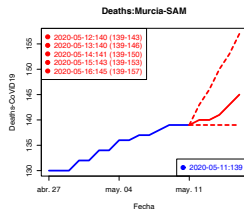
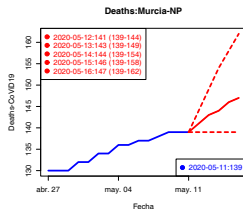
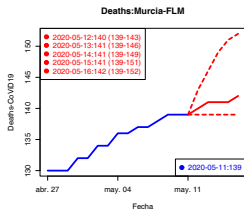


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Murcia

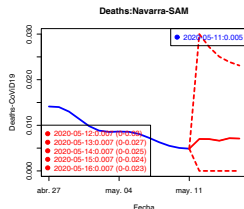
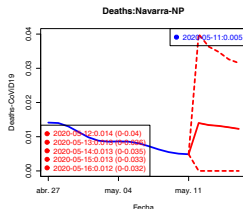
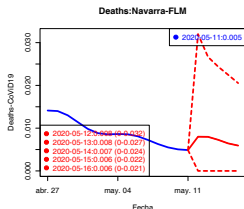
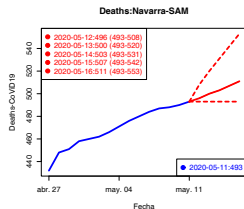
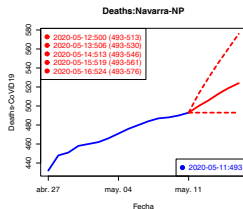
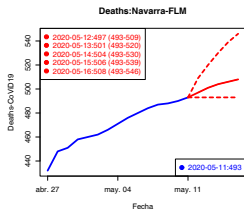


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Navarra

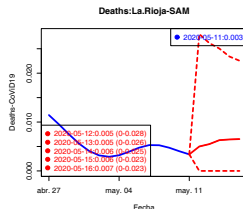
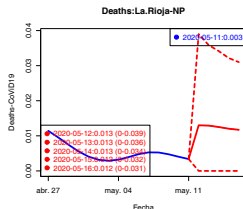
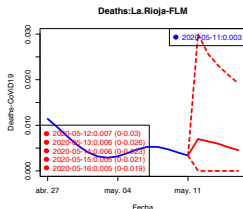
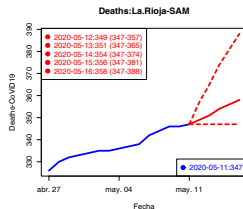
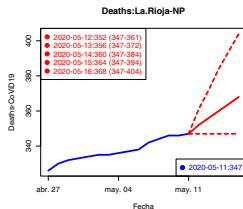
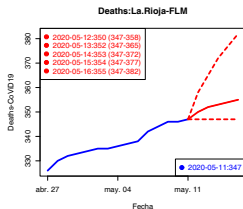


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: La Rioja



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

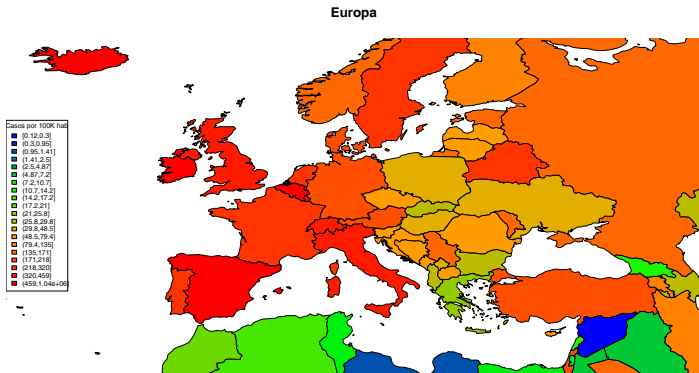
◀ Confirmados

◀ Fallecidos

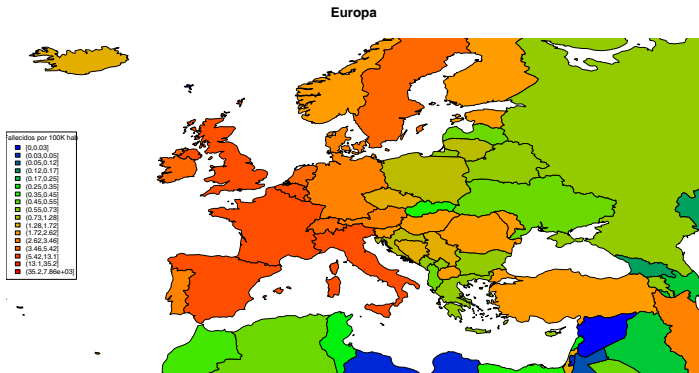
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- 3 Panorama internacional

Europa: Confirmados por 100K hab.

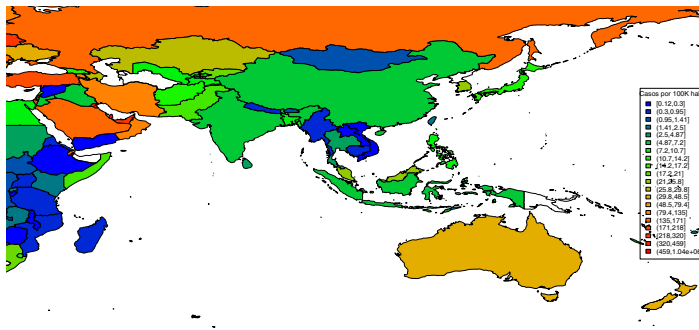


Europa: Fallecidos por 100K hab.



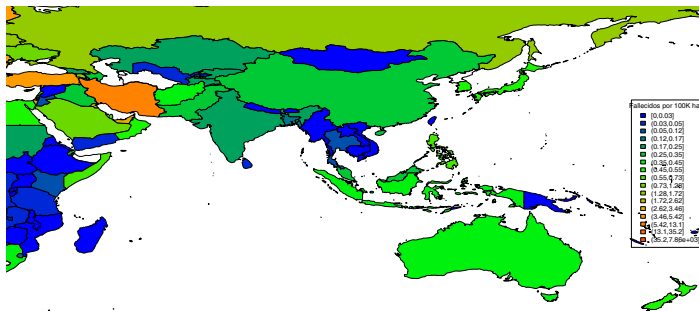
Asia y Oceanía: Casos por 100K hab.

Asia y Oceanía



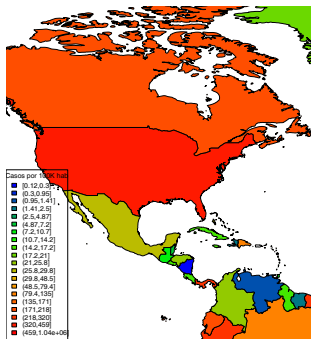
Asia y Oceanía: Fallecidos por 100K hab.

Asia y Oceanía



América: Casos por 100K hab.

América del Norte

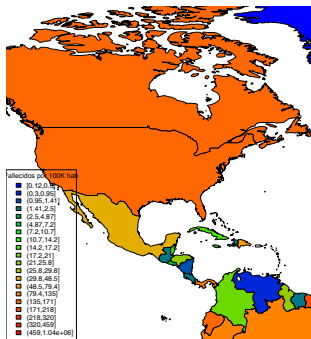


América del sur

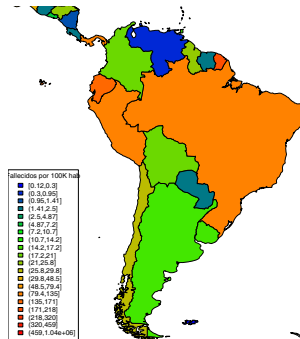


América: Fallecidos por 100K hab.

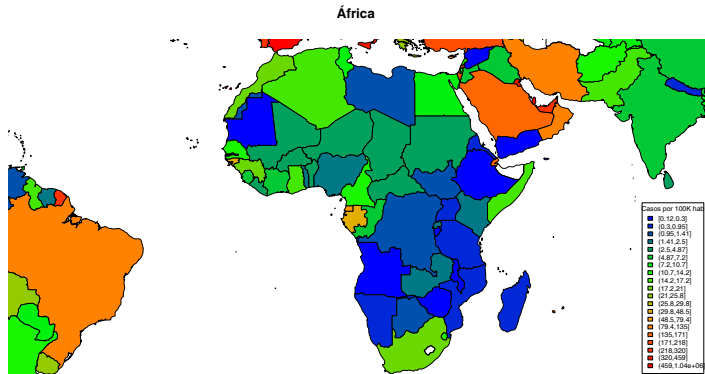
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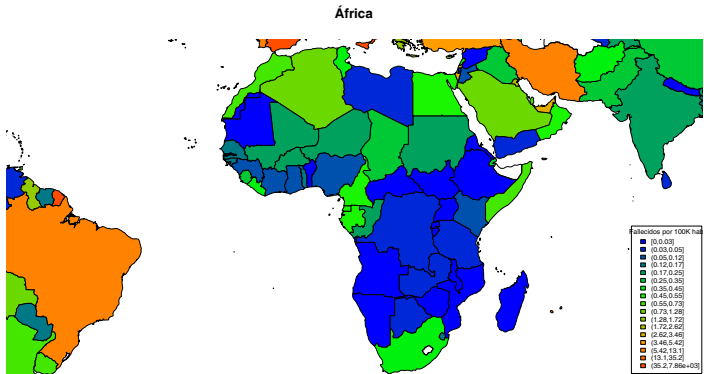
América del sur



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.