

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

Datos

Aplicación Shiny disponible en

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

Número de datos funcionales: 5518

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	0.511	0.732	0.519
H2	0.003	0.002	0.003	0.003	0.002	0.003	0.637	0.807	0.649
H3	0.006	0.004	0.006	0.007	0.004	0.006	0.682	0.828	0.694
H4	0.011	0.006	0.011	0.012	0.007	0.011	0.702	0.838	0.71
H5	0.017	0.01	0.017	0.02	0.012	0.02	0.71	0.841	0.719

Último dato: 2020-05-05 21:00 que se publica 2020-05-06 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	253682	255531	257043	258090	258884	259487
Andalucía	14639	14804	14962	15109	15244	15381
Aragón	6382	6470	6548	6616	6677	6739
Asturias	3073	3119	3166	3216	3269	3325
Islas.Baleares	2013	2025	2036	2046	2055	2064
Canarias	2231	2240	2247	2254	2259	2264
Cantabria	2626	2650	2671	2689	2703	2717
Castilla.La.Mancha	22166	22491	22828	23160	23483	23822
Castilla.y.León	22156	22477	22787	23087	23388	23698
Cataluña	52090	52451	52785	53094	53374	53651
Ceuta	164	168	171	174	178	181
Comunidad.Valenciana	13064	13230	13396	13558	13710	13867
Extremadura	3746	3779	3810	3837	3858	3878
Galicia	10192	10313	10432	10548	10668	10795
Madrid	68105	68380	68570	68691	68763	68814
Melilla	131	132	133	134	135	136
Murcia	2133	2180	2228	2276	2328	2385
Navarra	6770	6892	7006	7111	7217	7331
País.Vasco	16679	16888	17081	17251	17409	17574
La.Rioja	5322	5353	5379	5400	5418	5437

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

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	253682	255288	256833	258321	259772	261198
Andalucía	14639	14762	14880	14993	15104	15212
Aragón	6382	6447	6509	6568	6627	6684
Asturias	3073	3106	3137	3168	3199	3229
Islas.Baleares	2013	2019	2025	2031	2037	2043
Canarias	2231	2236	2241	2246	2251	2256
Cantabria	2626	2647	2667	2686	2705	2723
Castilla.La.Mancha	22166	22403	22633	22855	23075	23291
Castilla.y.León	22156	22428	22692	22948	23198	23445
Cataluña	52090	52362	52623	52876	53123	53365
Ceuta	164	166	169	171	173	176
Comunidad.Valenciana	13064	13179	13290	13398	13503	13607
Extremadura	3746	3763	3779	3795	3810	3826
Galicia	10192	10252	10310	10365	10420	10474
Madrid	68105	68310	68510	68707	68902	69101
Melilla	131	132	133	133	134	135
Murcia	2133	2152	2171	2190	2208	2227
Navarra	6770	6866	6959	7050	7141	7231
País.Vasco	16679	16852	17019	17179	17336	17490
La.Rioja	5322	5350	5378	5404	5429	5454

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

Tabla Previsión Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	253682	255720	257389	258881	260083	261420
Andalucía	14639	14788	14935	15061	15168	15265
Aragón	6382	6461	6525	6583	6607	6630
Asturias	3073	3115	3156	3197	3241	3295
Islas.Baleares	2013	2022	2029	2035	2041	2047
Canarias	2231	2235	2238	2241	2243	2246
Cantabria	2626	2646	2661	2673	2673	2674
Castilla.La.Mancha	22166	22469	22785	23075	23392	23673
Castilla.y.León	22156	22466	22749	23014	23242	23503
Cataluña	52090	52386	52623	52835	53051	53291
Ceuta	164	167	170	173	175	178
Comunidad.Valenciana	13064	13212	13349	13476	13611	13729
Extremadura	3746	3774	3802	3825	3846	3856
Galicia	10192	10306	10408	10509	10601	10707
Madrid	68105	68298	68361	68410	68380	68383
Melilla	131	132	132	133	134	135
Murcia	2133	2178	2220	2262	2299	2341
Navarra	6770	6886	6981	7070	7115	7178
País.Vasco	16679	16867	17032	17170	17233	17315
La.Rioja	5322	5347	5368	5384	5383	5392

Cuadro: Previsión número de casos confirmados: Mod. Aditivo - Horizonte 1 – 5 días.

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.008	0.007	0.013	0.017	0.021	0.023
Andalucía	0.010	0.011	0.022	0.032	0.041	0.051
Aragón	0.010	0.014	0.026	0.037	0.046	0.056
Asturias	0.017	0.015	0.030	0.046	0.064	0.082
Islas.Baleares	0.004	0.006	0.011	0.016	0.021	0.025
Canarias	0.002	0.004	0.007	0.010	0.012	0.015
Cantabria	0.006	0.009	0.017	0.024	0.029	0.035
Castilla.La.Mancha	0.015	0.015	0.030	0.045	0.059	0.075
Castilla.y.León	0.015	0.014	0.028	0.042	0.056	0.070
Cataluña	0.006	0.007	0.013	0.019	0.025	0.030
Ceuta	0.026	0.021	0.042	0.061	0.083	0.105
Comunidad.Valenciana	0.011	0.013	0.025	0.038	0.049	0.061
Extremadura	0.004	0.009	0.017	0.024	0.030	0.035
Galicia	0.013	0.012	0.024	0.035	0.047	0.059
Madrid	0.003	0.004	0.007	0.009	0.010	0.010
Melilla	0.006	0.007	0.015	0.022	0.029	0.037
Murcia	0.026	0.022	0.045	0.067	0.091	0.118
Navarra	0.018	0.018	0.035	0.050	0.066	0.083
País.Vasco	0.010	0.013	0.024	0.034	0.044	0.054
La.Rioja	0.005	0.006	0.011	0.015	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	0.008	0.006	0.012	0.018	0.024	0.030
Andalucía	0.010	0.008	0.016	0.024	0.032	0.039
Aragón	0.010	0.010	0.020	0.029	0.038	0.047
Asturias	0.017	0.011	0.021	0.031	0.041	0.051
Islas.Baleares	0.004	0.003	0.006	0.009	0.012	0.015
Canarias	0.002	0.002	0.004	0.007	0.009	0.011
Cantabria	0.006	0.008	0.016	0.023	0.030	0.037
Castilla.La.Mancha	0.015	0.011	0.021	0.031	0.041	0.051
Castilla.y.León	0.015	0.012	0.024	0.036	0.047	0.058
Cataluña	0.006	0.005	0.010	0.015	0.020	0.024
Ceuta	0.026	0.015	0.029	0.043	0.057	0.071
Comunidad.Valenciana	0.011	0.009	0.017	0.026	0.034	0.042
Extremadura	0.004	0.004	0.009	0.013	0.017	0.021
Galicia	0.013	0.006	0.012	0.017	0.022	0.028
Madrid	0.003	0.003	0.006	0.009	0.012	0.015
Melilla	0.006	0.006	0.012	0.017	0.023	0.028
Murcia	0.026	0.009	0.018	0.027	0.035	0.044
Navarra	0.018	0.014	0.028	0.041	0.055	0.068
País.Vasco	0.010	0.010	0.020	0.030	0.039	0.049
La.Rioja	0.005	0.005	0.010	0.015	0.020	0.025

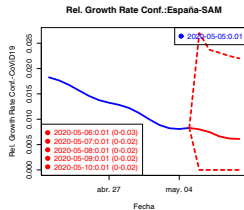
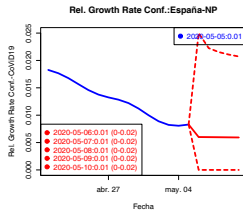
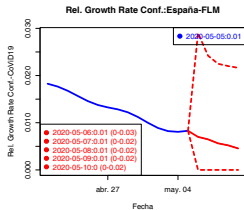
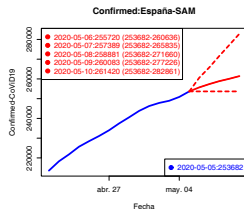
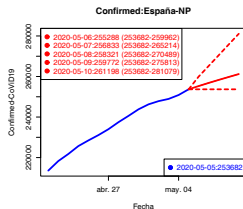
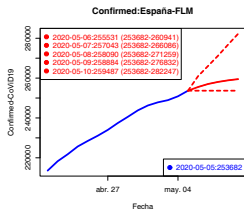
Cuadro: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.008	0.008	0.015	0.020	0.025	0.031
Andalucía	0.010	0.010	0.020	0.029	0.036	0.043
Aragón	0.010	0.012	0.022	0.032	0.035	0.039
Asturias	0.017	0.014	0.027	0.040	0.055	0.072
Islas.Baleares	0.004	0.004	0.008	0.011	0.014	0.017
Canarias	0.002	0.002	0.003	0.004	0.005	0.007
Cantabria	0.006	0.008	0.013	0.018	0.018	0.018
Castilla.La.Mancha	0.015	0.014	0.028	0.041	0.055	0.068
Castilla.y.León	0.015	0.014	0.027	0.039	0.049	0.061
Cataluña	0.006	0.006	0.010	0.014	0.018	0.023
Ceuta	0.026	0.021	0.037	0.054	0.067	0.082
Comunidad.Valenciana	0.011	0.011	0.022	0.032	0.042	0.051
Extremadura	0.004	0.007	0.015	0.021	0.027	0.029
Galicia	0.013	0.011	0.021	0.031	0.040	0.050
Madrid	0.003	0.003	0.004	0.004	0.004	0.004
Melilla	0.006	0.005	0.011	0.017	0.024	0.031
Murcia	0.026	0.021	0.041	0.060	0.078	0.098
Navarra	0.018	0.017	0.031	0.044	0.051	0.060
País.Vasco	0.010	0.011	0.021	0.029	0.033	0.038
La.Rioja	0.005	0.005	0.009	0.012	0.011	0.013

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

Confirmados: España



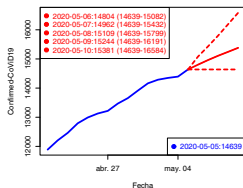
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

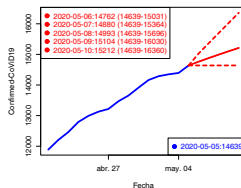
← Fallecidos

Confirmados: Andalucía

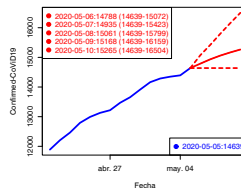
Confirmed:Andalucía-FLM



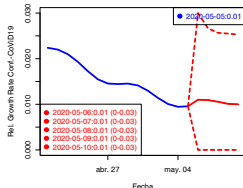
Confirmed:Andalucía-NP



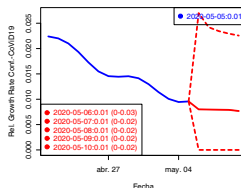
Confirmed:Andalucía-SAM



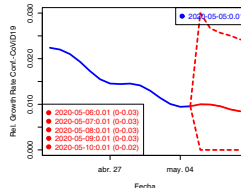
Rel. Growth Rate Conf.:Andalucía-FLM



Rel. Growth Rate Conf.:Andalucía-NP



Rel. Growth Rate Conf.:Andalucía-SAM

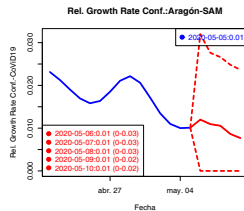
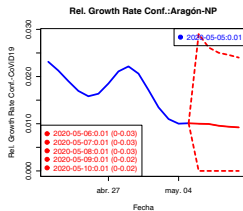
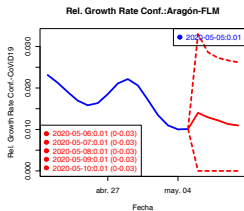
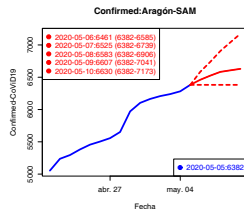
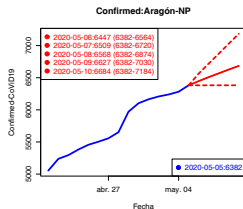
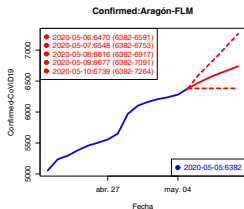


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

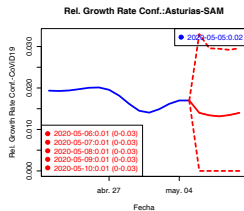
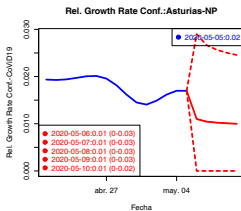
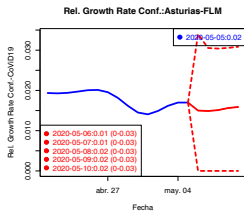
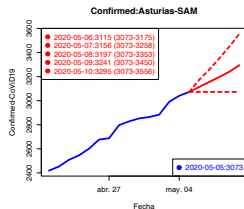
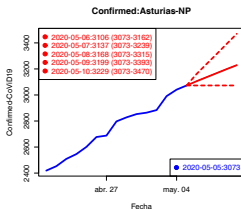
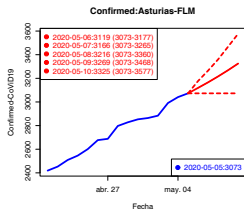


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

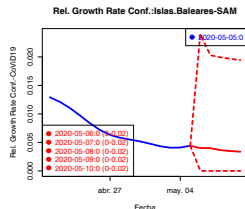
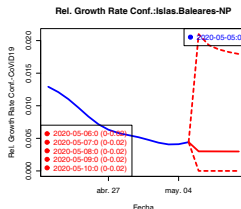
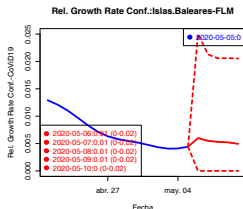
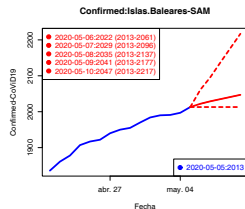
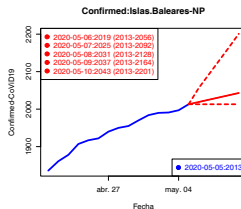
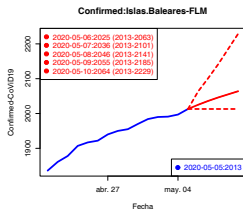


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

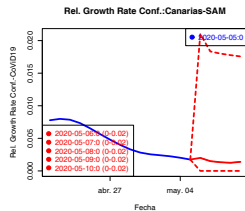
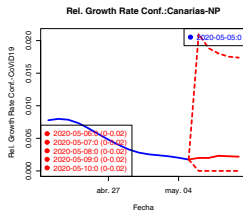
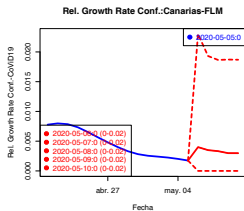
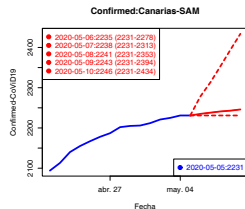
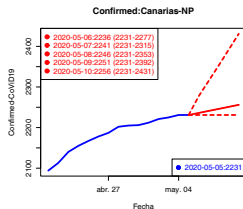
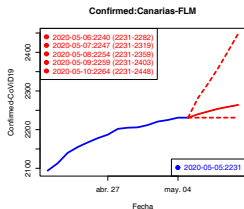


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

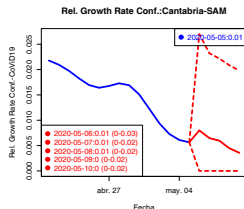
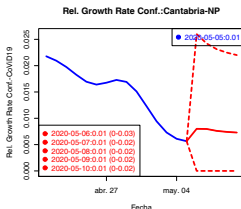
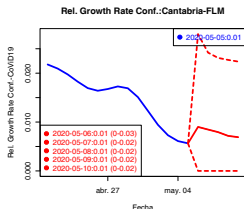
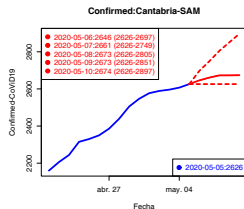
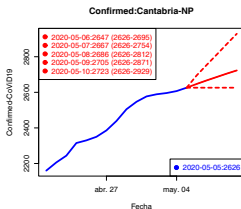
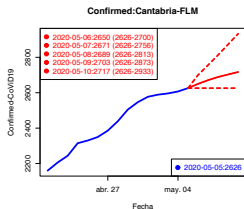


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

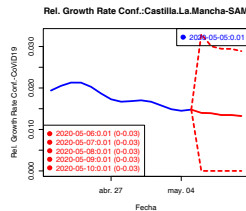
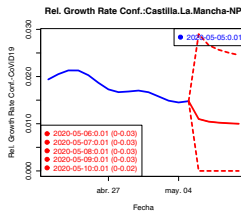
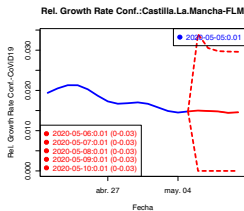
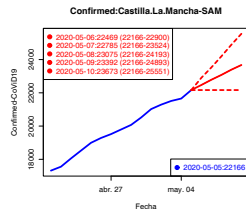
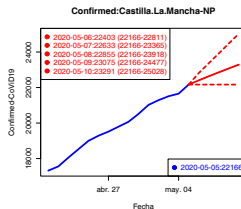
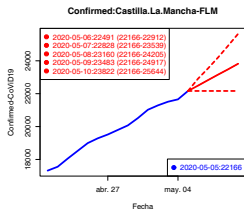


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Castilla-La Mancha

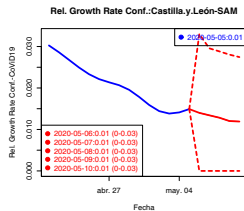
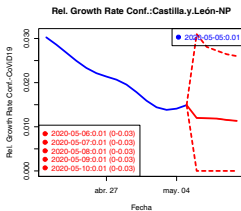
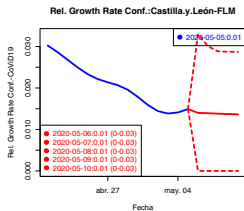
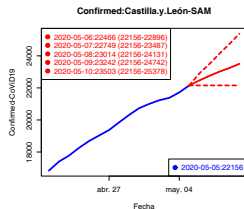
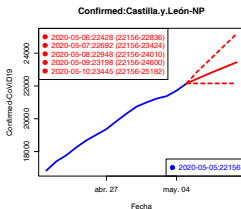
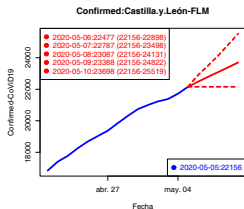


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Castilla y León

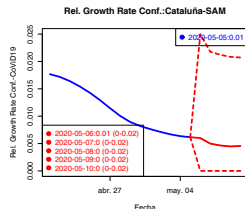
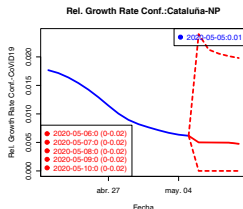
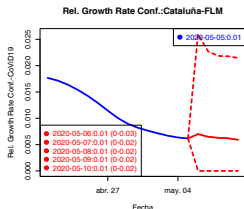
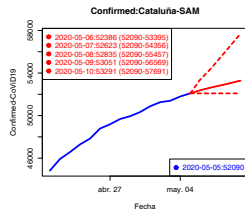
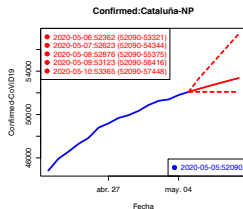
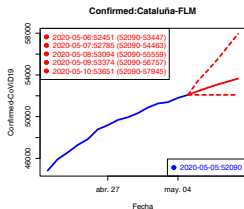


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña

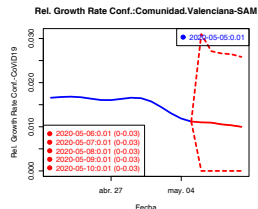
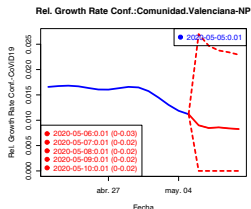
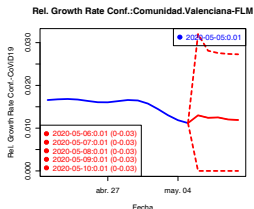
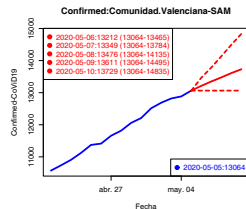
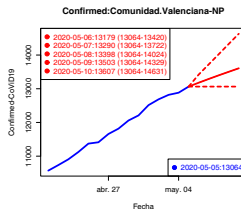
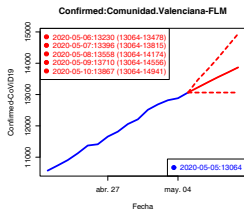


Los valores del Ratio de incremento de H2—H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: C. Valenciana

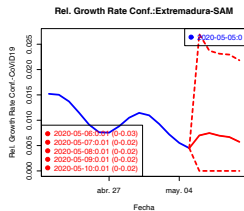
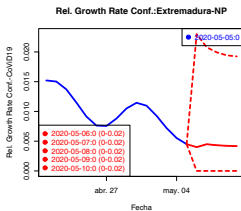
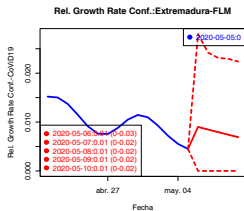
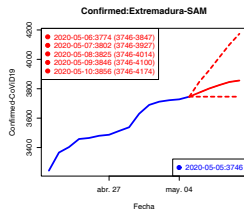
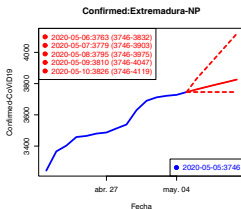
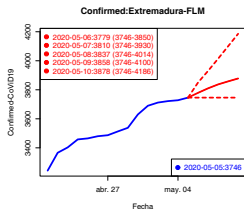


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura

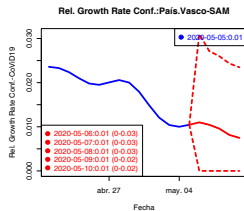
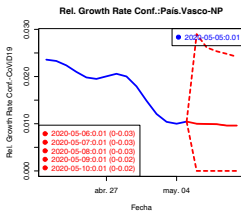
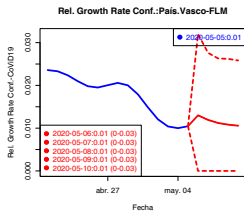
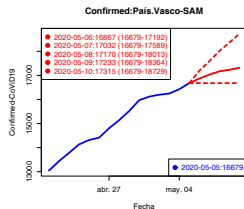
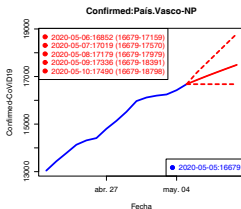
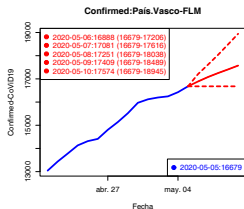


Los valores del Ratio de incremento de H2—H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: País Vasco

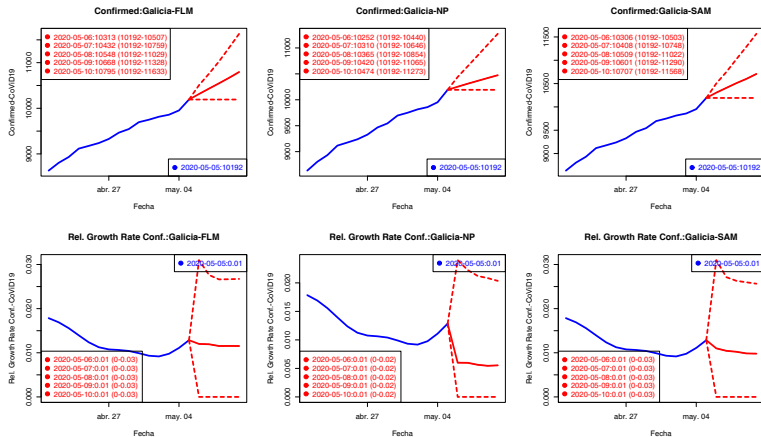


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Galicia

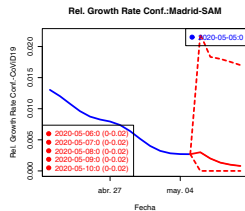
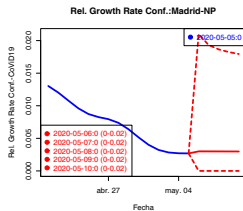
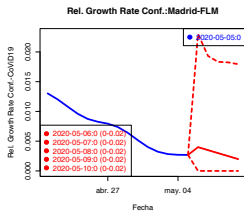
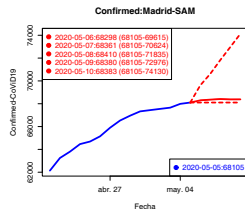
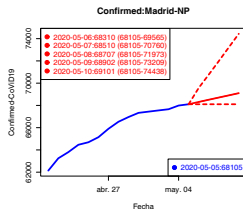
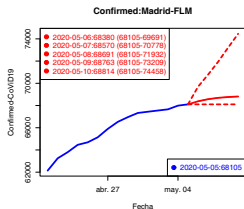


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

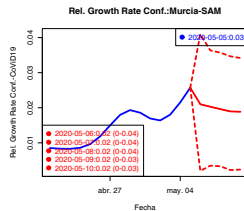
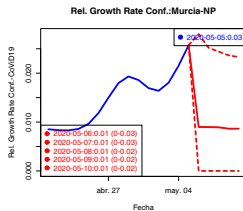
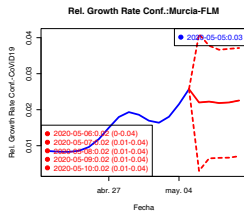
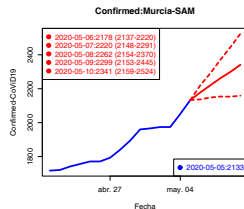
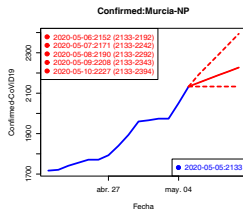
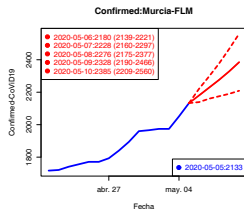


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

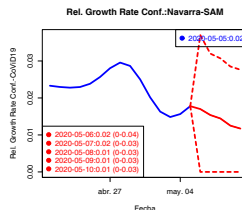
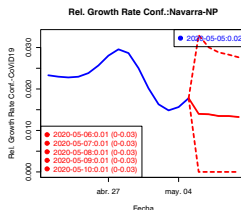
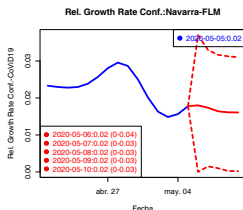
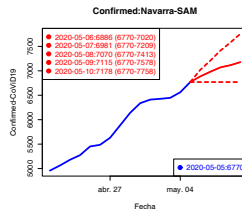
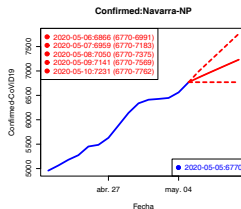
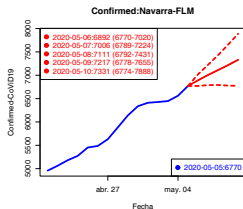


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Navarra

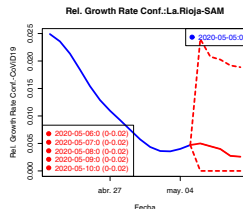
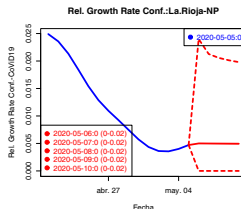
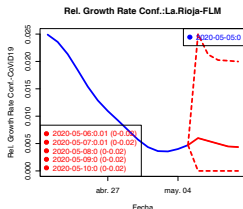
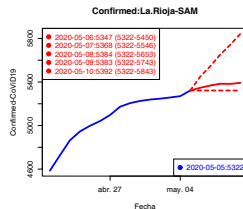
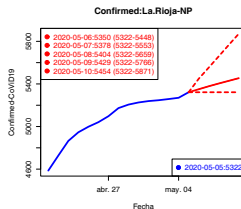
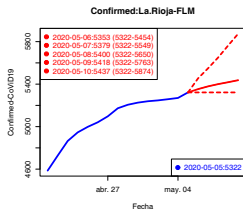


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: La Rioja



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

◀ Confirmados

◀ Fallecidos

Table of Contents

1 Casos Confirmados

- Predicciones

2 Fallecidos

- Predicciones Fallecidos

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 8051

Países/Regiones distintos incorporados: 105

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	0.494	0.489	0.521
H2	0.002	0.002	0.002	0.002	0.002	0.002	0.607	0.595	0.654
H3	0.004	0.005	0.004	0.005	0.005	0.005	0.662	0.646	0.717
H4	0.007	0.008	0.006	0.01	0.009	0.008	0.698	0.678	0.755
H5	0.011	0.012	0.009	0.017	0.014	0.012	0.715	0.69	0.772

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	25857	26133	26374	26566	26728	26883
Andalucía	1281	1296	1309	1320	1327	1335
Aragón	788	796	803	809	813	817
Asturias	287	291	294	296	298	300
Islas.Baleares	199	201	203	205	206	207
Canarias	143	144	146	147	148	149
Cantabria	199	201	202	203	204	205
Castilla.La.Mancha	2647	2680	2712	2739	2763	2786
Castilla.y.León	1847	1866	1883	1896	1908	1919
Cataluña	5345	5413	5475	5527	5575	5623
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1291	1303	1314	1323	1330	1337
Extremadura	463	467	471	474	476	478
Galicia	582	597	609	619	629	639
Madrid	8466	8537	8595	8638	8669	8698
Melilla	2	2	2	2	2	2
Murcia	136	137	138	139	140	141
Navarra	476	481	485	489	492	494
País.Vasco	1364	1379	1392	1402	1409	1417
La.Rioja	337	339	341	342	342	342

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	25857	26279	26682	27061	27420	27775
Andalucía	1281	1303	1323	1343	1361	1379
Aragón	788	801	813	825	836	847
Asturias	287	293	298	303	308	312
Islas.Baleares	199	202	205	208	211	214
Canarias	143	145	148	150	152	154
Cantabria	199	202	205	208	211	214
Castilla.La.Mancha	2647	2692	2735	2775	2814	2852
Castilla.y.León	1847	1877	1906	1933	1959	1984
Cataluña	5345	5437	5525	5607	5686	5764
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1291	1312	1331	1350	1368	1385
Extremadura	463	470	477	484	490	496
Galicia	582	595	608	620	632	644
Madrid	8466	8597	8721	8839	8950	9059
Melilla	2	2	2	2	2	2
Murcia	136	138	140	142	144	146
Navarra	476	484	491	498	505	511
País.Vasco	1364	1387	1408	1429	1448	1467
La.Rioja	337	342	347	352	357	361

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	25857	26097	26352	26608	26829	27058
Andalucía	1281	1293	1304	1316	1324	1333
Aragón	788	795	802	807	817	827
Asturias	287	291	294	296	297	299
Islas.Baleares	199	201	203	205	206	207
Canarias	143	144	146	147	148	149
Cantabria	199	201	202	203	205	207
Castilla.La.Mancha	2647	2676	2706	2734	2760	2788
Castilla.y.León	1847	1865	1885	1903	1920	1938
Cataluña	5345	5407	5460	5510	5552	5593
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1291	1303	1317	1332	1345	1359
Extremadura	463	467	472	477	481	485
Galicia	582	592	601	608	611	611
Madrid	8466	8527	8613	8698	8773	8853
Melilla	2	2	2	2	2	2
Murcia	136	137	139	141	143	145
Navarra	476	481	486	492	499	506
País.Vasco	1364	1376	1388	1400	1413	1426
La.Rioja	337	339	342	344	346	347

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.008	0.011	0.020	0.027	0.034	0.040
Andalucía	0.007	0.012	0.022	0.030	0.036	0.042
Aragón	0.012	0.010	0.019	0.026	0.032	0.037
Asturias	0.008	0.013	0.024	0.033	0.040	0.046
Islas.Baleares	0.005	0.012	0.022	0.030	0.036	0.042
Canarias	0.007	0.010	0.020	0.027	0.033	0.039
Cantabria	0.007	0.009	0.016	0.021	0.025	0.028
Castilla.La.Mancha	0.011	0.013	0.024	0.035	0.044	0.053
Castilla.y.León	0.008	0.010	0.019	0.027	0.033	0.039
Cataluña	0.011	0.013	0.024	0.034	0.043	0.052
Ceuta	0.000	0.004	0.006	0.006	0.006	0.004
Comunidad.Valenciana	0.007	0.010	0.018	0.025	0.030	0.036
Extremadura	0.003	0.010	0.017	0.023	0.027	0.031
Galicia	0.011	0.025	0.047	0.063	0.080	0.098
Madrid	0.005	0.008	0.015	0.020	0.024	0.027
Melilla	0.000	0.004	0.006	0.007	0.007	0.006
Murcia	0.006	0.009	0.017	0.024	0.029	0.035
Navarra	0.009	0.010	0.019	0.027	0.033	0.039
País.Vasco	0.008	0.011	0.020	0.028	0.033	0.038
La.Rioja	0.002	0.007	0.012	0.014	0.015	0.016

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

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

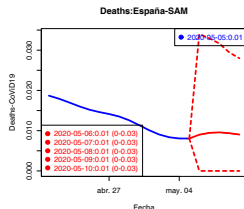
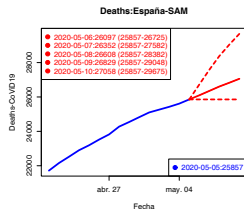
	Last	H1	H2	H3	H4	H5
España	0.008	0.016	0.032	0.047	0.060	0.074
Andalucía	0.007	0.017	0.033	0.048	0.062	0.077
Aragón	0.012	0.016	0.032	0.047	0.061	0.074
Asturias	0.008	0.019	0.037	0.055	0.071	0.088
Islas.Baleares	0.005	0.017	0.032	0.047	0.062	0.076
Canarias	0.007	0.016	0.032	0.046	0.060	0.073
Cantabria	0.007	0.016	0.032	0.046	0.060	0.074
Castilla.La.Mancha	0.011	0.017	0.033	0.049	0.063	0.077
Castilla.y.León	0.008	0.016	0.032	0.047	0.060	0.074
Cataluña	0.011	0.017	0.034	0.049	0.064	0.078
Ceuta	0.000	0.014	0.028	0.041	0.053	0.065
Comunidad.Valenciana	0.007	0.016	0.031	0.046	0.059	0.073
Extremadura	0.003	0.016	0.031	0.045	0.059	0.072
Galicia	0.011	0.023	0.045	0.066	0.086	0.107
Madrid	0.005	0.015	0.030	0.044	0.057	0.070
Melilla	0.000	0.014	0.028	0.041	0.053	0.065
Murcia	0.006	0.015	0.030	0.044	0.057	0.070
Navarra	0.009	0.016	0.032	0.046	0.060	0.073
País.Vasco	0.008	0.017	0.032	0.047	0.061	0.075
La.Rioja	0.002	0.016	0.031	0.045	0.058	0.071

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

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

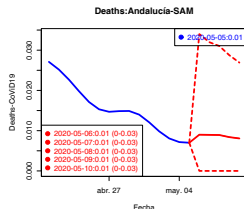
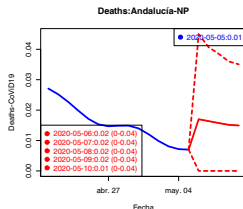
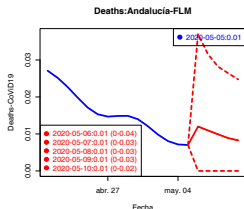
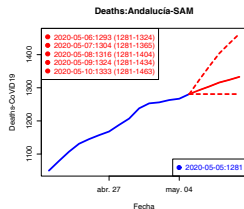
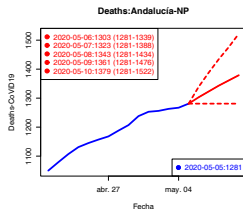
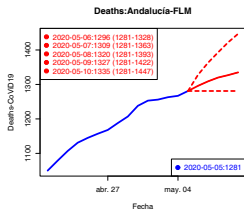
	Last	H1	H2	H3	H4	H5
España	0.008	0.009	0.019	0.029	0.038	0.046
Andalucía	0.007	0.009	0.018	0.027	0.034	0.041
Aragón	0.012	0.009	0.017	0.025	0.037	0.050
Asturias	0.008	0.014	0.025	0.030	0.036	0.040
Islas.Baleares	0.005	0.010	0.020	0.029	0.035	0.040
Canarias	0.007	0.008	0.018	0.026	0.034	0.042
Cantabria	0.007	0.009	0.016	0.022	0.030	0.039
Castilla.La.Mancha	0.011	0.011	0.022	0.033	0.043	0.053
Castilla.y.León	0.008	0.010	0.021	0.030	0.040	0.049
Cataluña	0.011	0.012	0.022	0.031	0.039	0.046
Ceuta	0.000	0.006	0.022	0.039	0.057	0.073
Comunidad.Valenciana	0.007	0.009	0.020	0.031	0.042	0.053
Extremadura	0.003	0.009	0.019	0.030	0.040	0.048
Galicia	0.011	0.016	0.033	0.044	0.050	0.051
Madrid	0.005	0.007	0.017	0.027	0.036	0.046
Melilla	0.000	0.005	0.022	0.037	0.048	0.060
Murcia	0.006	0.009	0.025	0.039	0.054	0.069
Navarra	0.009	0.010	0.021	0.034	0.048	0.062
País.Vasco	0.008	0.009	0.017	0.027	0.036	0.046
La.Rioja	0.002	0.006	0.016	0.022	0.026	0.029

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

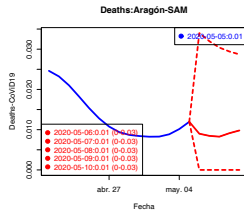
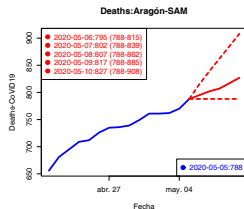


◀ Confirmados ◀ Fallecidos

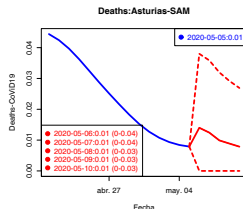
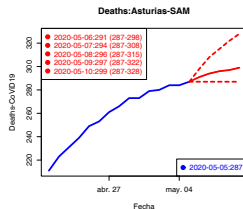
Fallecidos: Andalucía



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

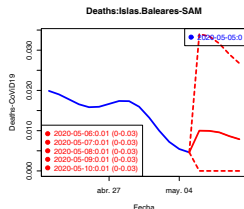
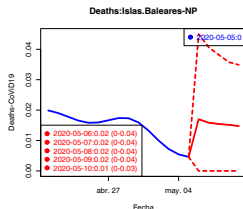
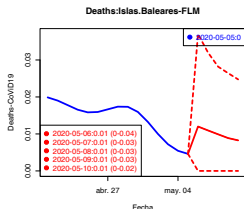
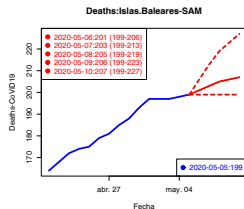
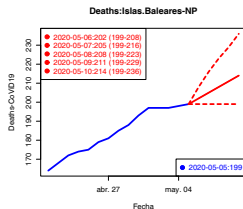
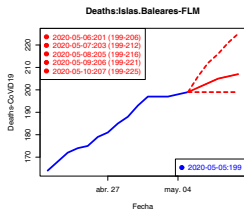


◀ Confirmados ▶ Fallecidos

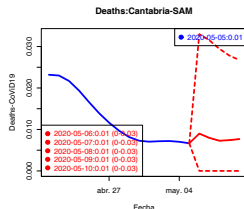
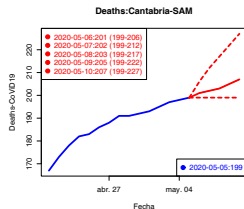


◀ Confirmados

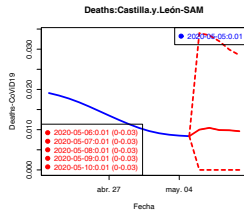
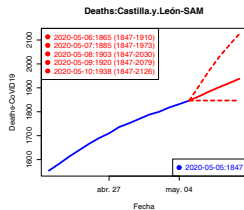
Fallecidos: Islas Baleares



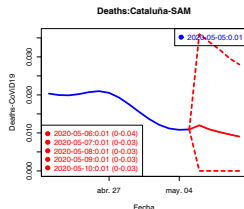
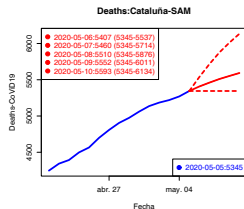
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.



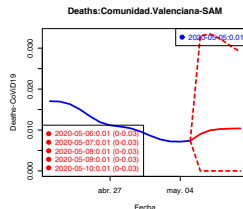
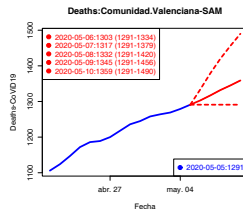
◀ Confirmados ▶ Fallecidos



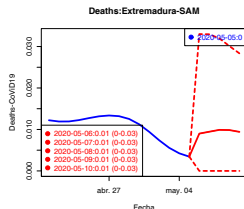
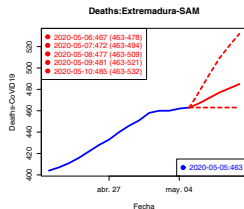
◀ Confirmados ▶ Fallecidos



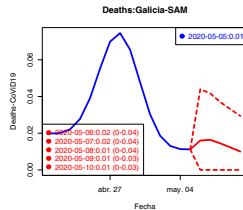
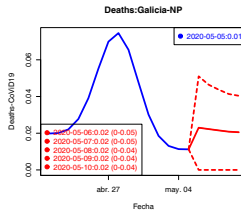
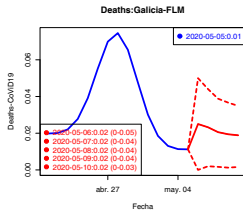
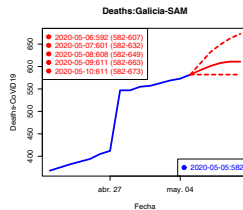
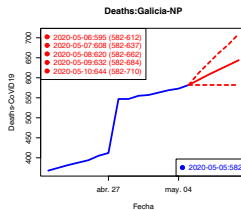
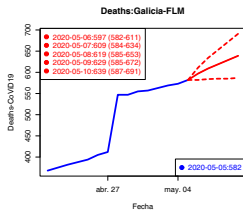
◀ Confirmados ▶ Fallecidos



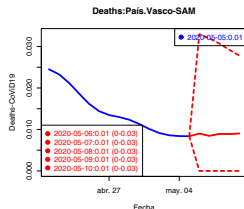
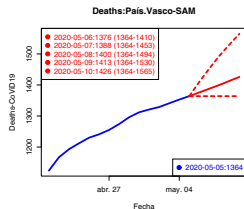
◀ Confirmados ◀ Fallecidos



◀ Confirmados ◀ Fallecidos

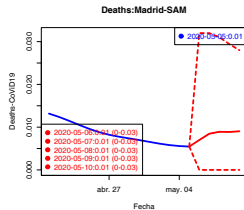
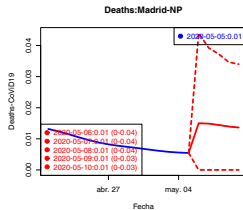
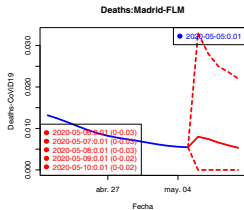
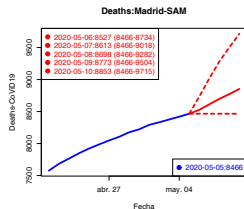
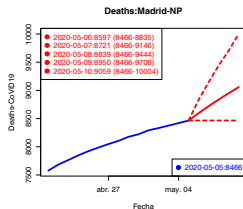
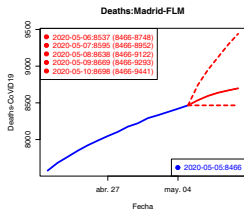


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

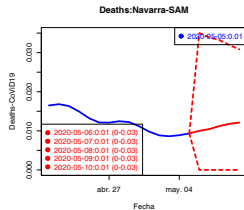
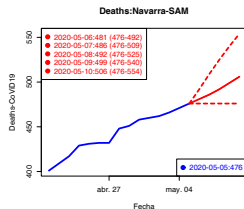


◀ Confirmados ◀ Fallecidos

Fallecidos: Madrid

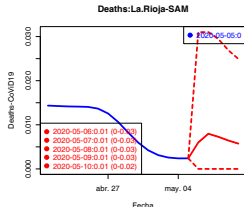
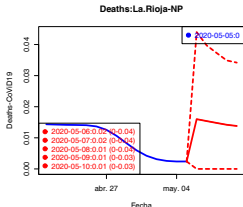
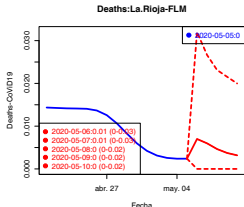
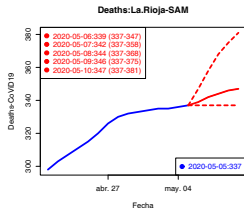
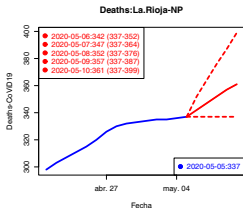
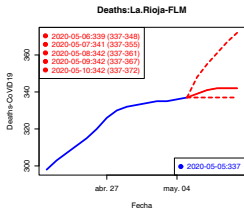


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.



◀ Confirmados ▶ Fallecidos

Fallecidos: La Rioja



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

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.