

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

Datos

Número de datos funcionales: 5179

Países/Regiones distintos incorporados: 170

Predicciones:

▶ España

► Andalucía

► Aragón

► Asturias

► I. Balears

► **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	0.004	0.001	0.004	0.002	0.001	0.002	0.444	0.869	0.456
H2	0.009	0.003	0.009	0.007	0.002	0.007	0.587	0.899	0.603
H3	0.021	0.006	0.02	0.018	0.005	0.017	0.628	0.905	0.645
H4	0.043	0.013	0.041	0.036	0.01	0.035	0.623	0.905	0.642
H5	0.079	0.023	0.075	0.067	0.016	0.064	0.611	0.906	0.634

Último dato: 2020-04-26 21:00 que se publica 2020-04-27 12:00.

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	209465	210943	212445	213972	215562	217113
Andalucía	11852	11903	11954	12005	12056	12107
Aragón	4985	5011	5038	5064	5091	5117
Asturias	2254	2263	2272	2280	2289	2297
Islas.Baleares	1859	1869	1878	1888	1897	1907
Canarias	2178	2184	2190	2197	2203	2210
Cantabria	2104	2114	2123	2133	2143	2152
Castilla.La.Mancha	15664	15709	15755	15802	15849	15896
Castilla.y.León	16404	16571	16743	16926	17118	17314
Cataluña	47755	48388	49048	49738	50485	51273
Ceuta	100	100	100	101	101	101
Comunidad.Valenciana	10180	10211	10242	10273	10305	10335
Extremadura	2749	2755	2761	2767	2774	2780
Galicia	9238	9306	9376	9447	9521	9594
Madrid	59421	59877	60339	60810	61303	61784
Melilla	110	110	111	111	111	111
Murcia	1474	1476	1479	1482	1485	1488
Navarra	4733	4752	4771	4790	4810	4828
País.Vasco	12513	12557	12601	12646	12692	12737
La.Rioja	3892	3907	3923	3938	3954	3969

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

Tabla Previsión Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	209465	211791	213991	216175	219013	221632
Andalucía	11852	11968	12073	12184	12326	12454
Aragón	4985	5027	5067	5106	5156	5208
Asturias	2254	2263	2273	2284	2293	2312
Islas.Baleares	1859	1873	1884	1893	1908	1918
Canarias	2178	2194	2208	2221	2238	2254
Cantabria	2104	2123	2140	2153	2173	2186
Castilla.La.Mancha	15664	15783	15902	16041	16189	16395
Castilla.y.León	16404	16641	16911	17265	17583	18111
Cataluña	47755	48501	49216	49825	50698	51336
Ceuta	100	100	100	100	100	101
Comunidad.Valenciana	10180	10258	10335	10419	10505	10627
Extremadura	2749	2763	2773	2782	2795	2804
Galicia	9238	9346	9447	9551	9691	9818
Madrid	59421	59999	60475	60909	61641	62153
Melilla	110	111	112	113	115	117
Murcia	1474	1479	1482	1484	1489	1491
Navarra	4733	4778	4825	4877	4927	4996
País.Vasco	12513	12681	12862	13107	13336	13726
La.Rioja	3892	3929	3967	4007	4049	4104

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

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.011	0.003	0.008	0.012	0.013	0.014
Andalucía	0.009	0.010	0.022	0.032	0.043	0.053
Aragón	0.008	0.010	0.019	0.028	0.036	0.044
Asturias	0.003	0.006	0.010	0.012	0.013	0.012
Islas.Baleares	0.006	0.009	0.017	0.024	0.030	0.036
Canarias	0.007	0.009	0.017	0.025	0.033	0.040
Cantabria	0.009	0.010	0.021	0.030	0.039	0.049
Castilla.La.Mancha	0.007	0.009	0.017	0.025	0.031	0.038
Castilla.y.León	0.014	0.014	0.028	0.043	0.057	0.071
Cataluña	0.016	0.016	0.034	0.051	0.068	0.086
Ceuta	0.000	0.003	0.004	0.004	0.002	0.000
Comunidad.Valenciana	0.007	0.008	0.016	0.023	0.030	0.036
Extremadura	0.004	0.006	0.011	0.016	0.019	0.021
Galicia	0.011	0.013	0.027	0.040	0.053	0.067
Madrid	0.009	0.009	0.019	0.028	0.036	0.043
Melilla	0.009	0.010	0.020	0.029	0.039	0.049
Murcia	0.002	0.005	0.010	0.014	0.017	0.019
Navarra	0.010	0.011	0.021	0.031	0.041	0.051
País.Vasco	0.013	0.013	0.025	0.039	0.053	0.068
La.Rioja	0.009	0.010	0.021	0.030	0.040	0.049

Table: Previsión Ratio Incr. Confirmados: Mod. lineal - Horizonte 1 – 5 días.

Tabla Ratio Incr. Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	0.011	0.007	0.014	0.022	0.029	0.037
Andalucía	0.009	0.004	0.009	0.013	0.017	0.021
Aragón	0.008	0.005	0.011	0.016	0.021	0.027
Asturias	0.003	0.004	0.008	0.012	0.016	0.019
Islas.Baleares	0.006	0.005	0.010	0.015	0.021	0.026
Canarias	0.007	0.003	0.006	0.009	0.012	0.015
Cantabria	0.009	0.005	0.009	0.014	0.018	0.023
Castilla.La.Mancha	0.007	0.003	0.006	0.009	0.012	0.015
Castilla.y.León	0.014	0.010	0.021	0.032	0.044	0.055
Cataluña	0.016	0.013	0.027	0.042	0.057	0.074
Ceuta	0.000	0.002	0.004	0.006	0.008	0.010
Comunidad.Valenciana	0.007	0.003	0.006	0.009	0.012	0.015
Extremadura	0.004	0.002	0.004	0.007	0.009	0.011
Galicia	0.011	0.007	0.015	0.023	0.031	0.039
Madrid	0.009	0.008	0.015	0.023	0.032	0.040
Melilla	0.009	0.003	0.005	0.008	0.010	0.013
Murcia	0.002	0.002	0.003	0.005	0.007	0.009
Navarra	0.010	0.004	0.008	0.012	0.016	0.020
País.Vasco	0.013	0.003	0.007	0.011	0.014	0.018
La.Rioja	0.009	0.004	0.008	0.012	0.016	0.020

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

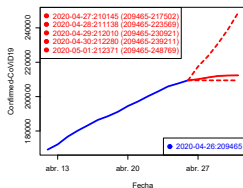
Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.011	0.011	0.022	0.032	0.046	0.058
Andalucía	0.009	0.010	0.019	0.028	0.040	0.051
Aragón	0.008	0.009	0.016	0.024	0.034	0.045
Asturias	0.003	0.004	0.008	0.013	0.017	0.026
Islas.Baleares	0.006	0.008	0.014	0.018	0.027	0.032
Canarias	0.007	0.007	0.014	0.020	0.028	0.035
Cantabria	0.009	0.009	0.017	0.023	0.033	0.039
Castilla.La.Mancha	0.007	0.008	0.015	0.024	0.034	0.047
Castilla.y.León	0.014	0.014	0.031	0.052	0.072	0.104
Cataluña	0.016	0.016	0.031	0.043	0.062	0.075
Ceuta	0.000	0.001	0.002	0.003	0.004	0.006
Comunidad.Valenciana	0.007	0.008	0.015	0.023	0.032	0.044
Extremadura	0.004	0.005	0.009	0.012	0.017	0.020
Galicia	0.011	0.012	0.023	0.034	0.049	0.063
Madrid	0.009	0.010	0.018	0.025	0.037	0.046
Melilla	0.009	0.009	0.019	0.031	0.042	0.060
Murcia	0.002	0.004	0.005	0.007	0.010	0.012
Navarra	0.010	0.009	0.019	0.030	0.041	0.056
País.Vasco	0.013	0.013	0.028	0.047	0.066	0.097
La.Rioja	0.009	0.009	0.019	0.030	0.040	0.055

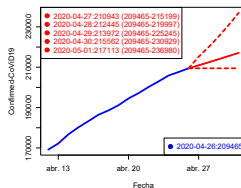
Table: Previsión Ratio Incr. Confirmados: Mod. Aditivo - Horizonte 1 – 5 días.

Confirmados: España

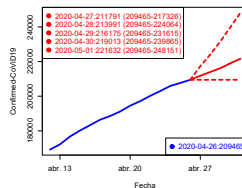
Confirmed:España-FLM



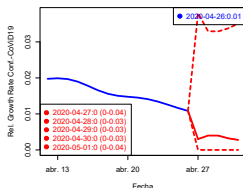
Confirmed:España-NP



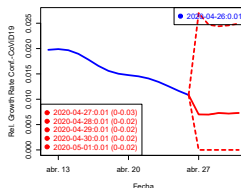
Confirmed:España-SAM



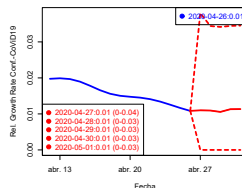
Rel. Growth Rate Conf.:España-FLM



Rel. Growth Rate Conf.:España-NP



Rel. Growth Rate Conf.:España-SAM

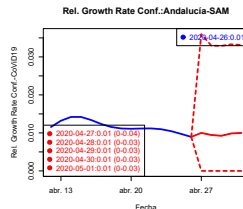
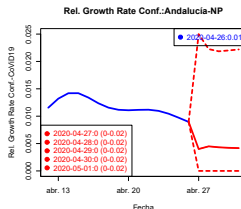
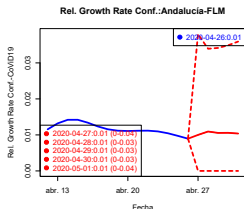
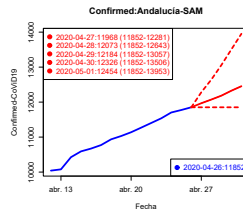
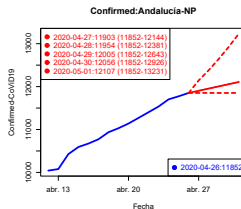
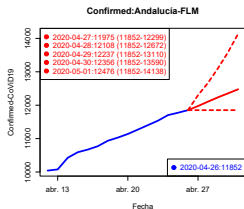


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Andalucía

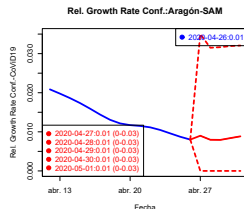
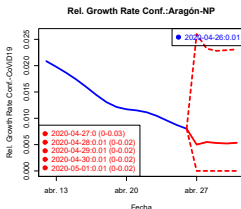
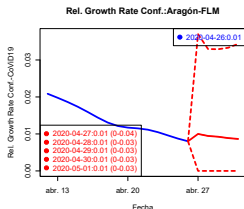
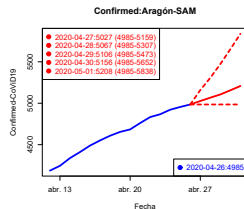
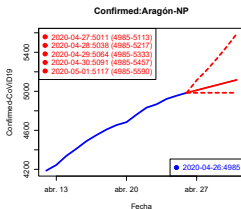
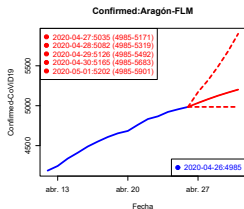


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

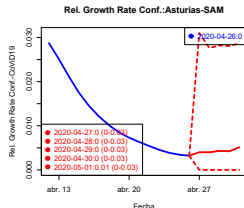
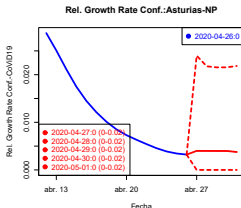
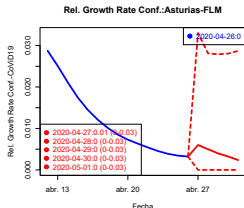
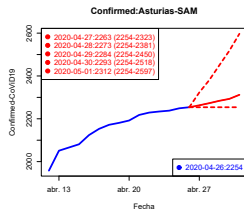
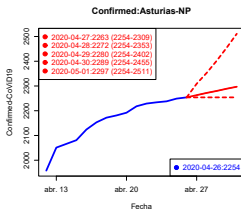
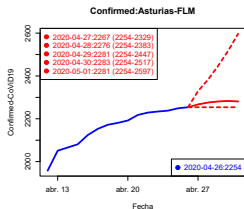


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

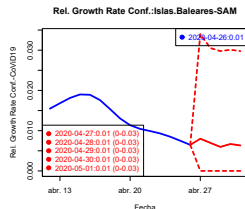
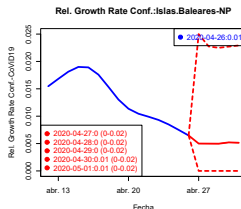
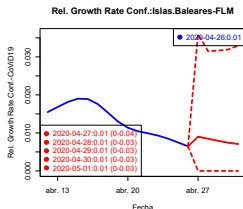
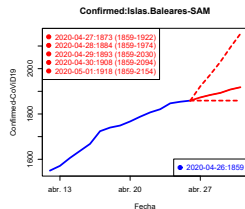
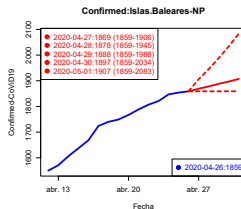
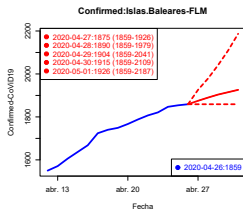


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

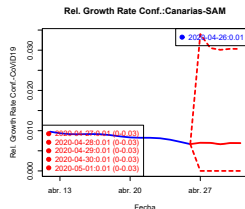
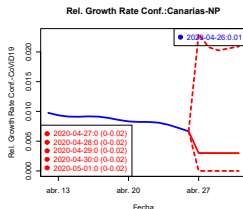
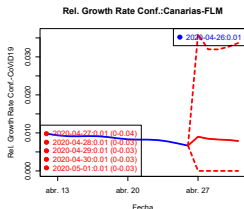
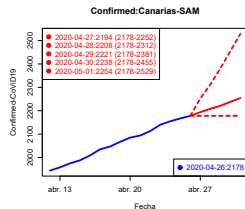
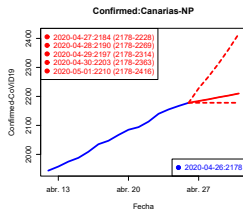
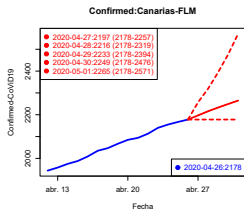
◀ Fallecidos

Confirmados: Islas Baleares



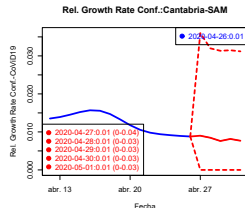
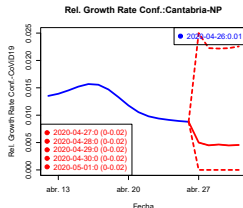
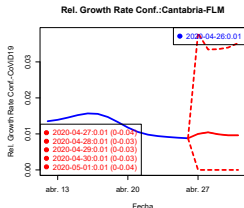
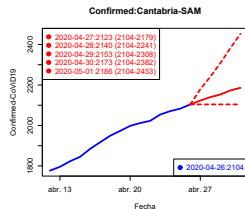
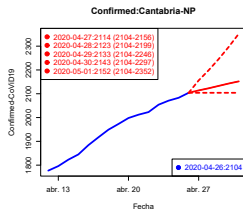
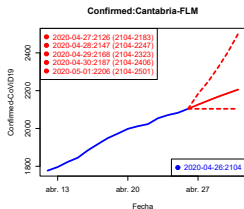
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

Confirmados: Canarias



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

Confirmados: Cantabria



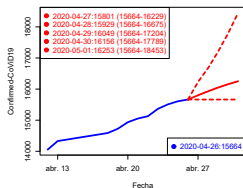
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

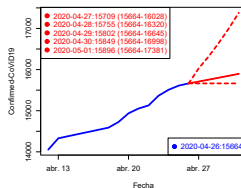
◀ Fallecidos

Confirmados: Castilla-La Mancha

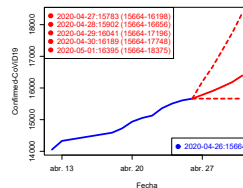
Confirmed:Castilla.La.Mancha-FLM



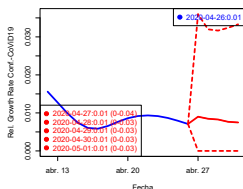
Confirmed:Castilla.La.Mancha-NP



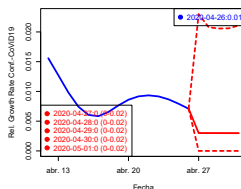
Confirmed:Castilla.La.Mancha-SAM



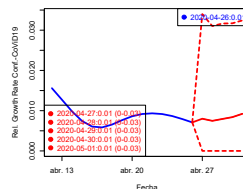
Rel. Growth Rate Conf.:Castilla.La.Mancha-FLM



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



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

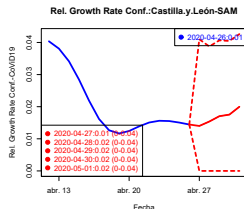
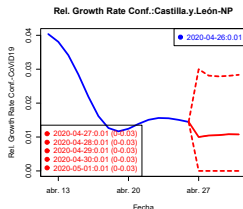
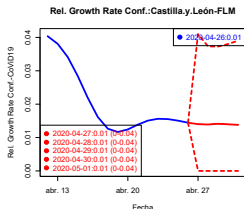
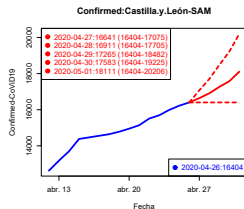
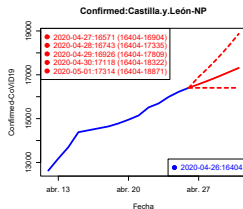
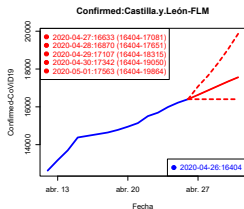


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León



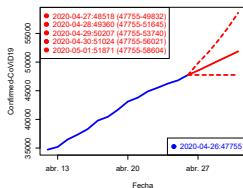
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

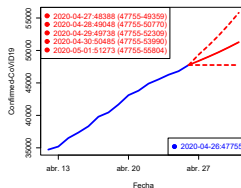
◀ Fallecidos

Confirmados: Cataluña

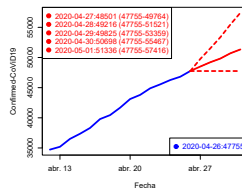
Confirmed:Cataluña-FLM



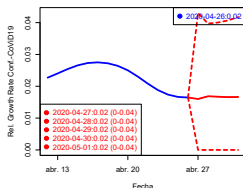
Confirmed:Cataluña-NP



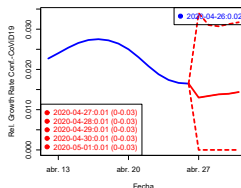
Confirmed:Cataluña-SAM



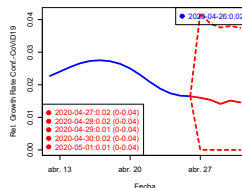
Rel. Growth Rate Conf.:Cataluña-FLM



Rel. Growth Rate Conf.:Cataluña-NP



Rel. Growth Rate Conf.:Cataluña-SAM

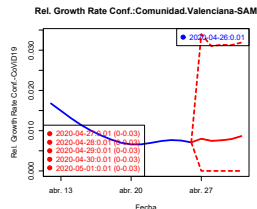
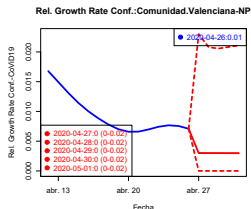
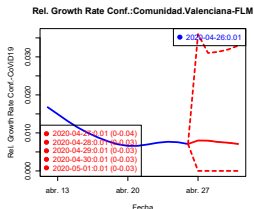
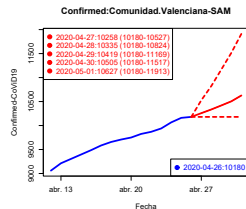
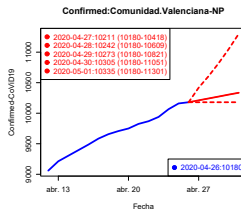
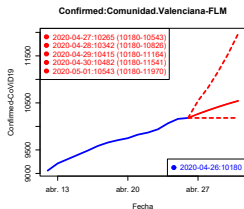


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: C. Valenciana



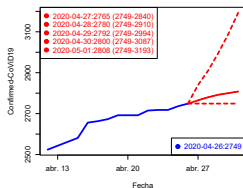
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

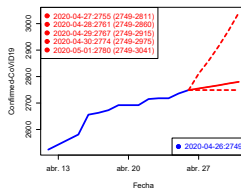
◀ Fallecidos

Confirmados: Extremadura

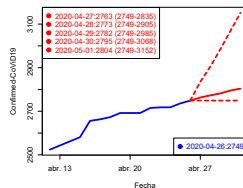
Confirmed:Extremadura-FLM



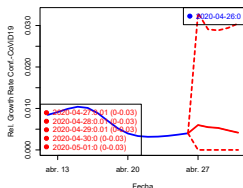
Confirmed:Extremadura-NP



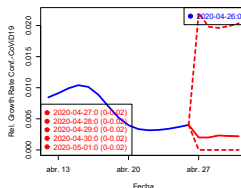
Confirmed:Extremadura-SAM



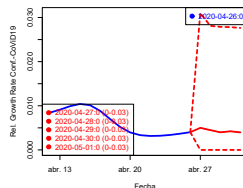
Rel. Growth Rate Conf.:Extremadura-FLM



Rel. Growth Rate Conf.:Extremadura-NP



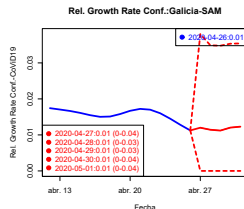
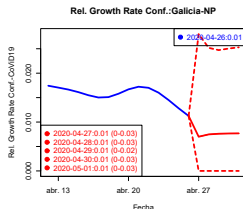
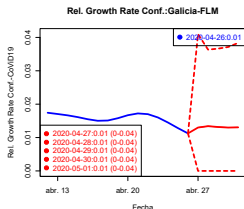
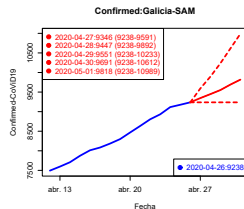
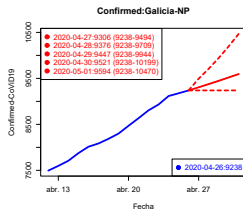
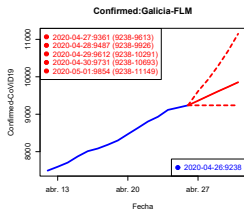
Rel. Growth Rate Conf.:Extremadura-SAM



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

[← Confirmados](#)
[← Fallecidos](#)

Confirmados: Galicia

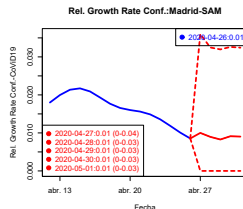
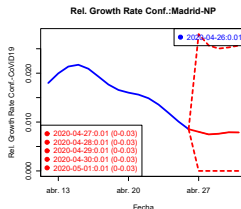
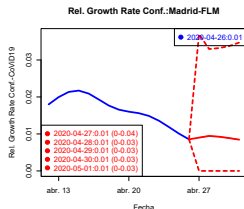
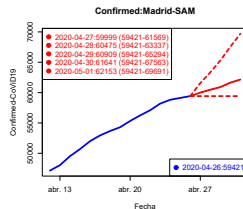
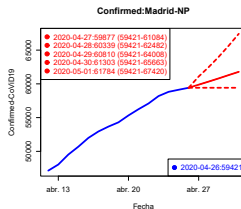
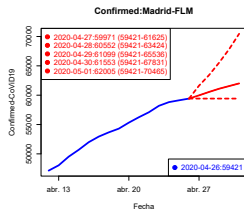


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

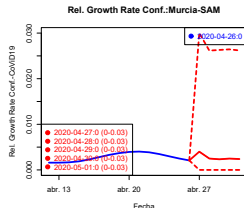
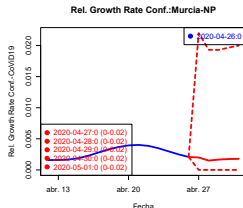
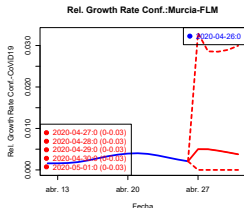
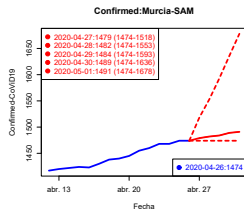
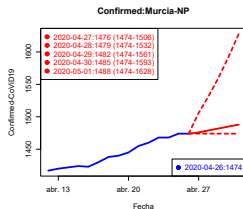
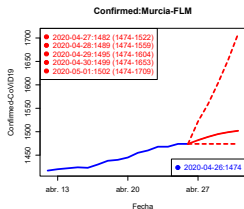


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

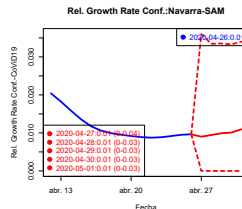
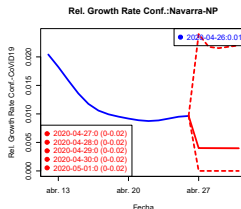
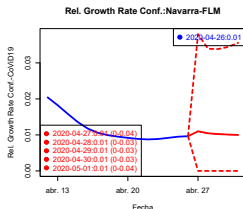
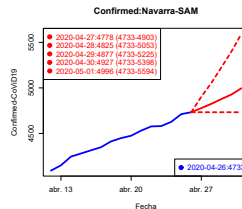
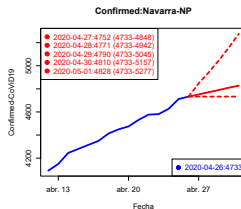
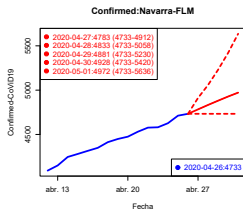
◀ Fallecidos

Confirmados: Murcia



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

Confirmados: Navarra

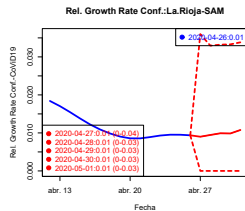
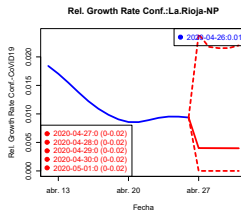
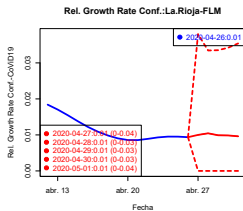
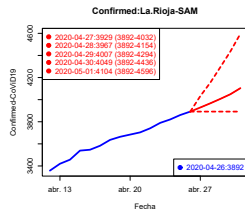
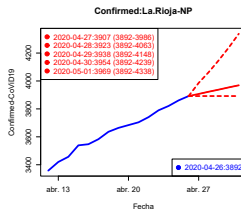
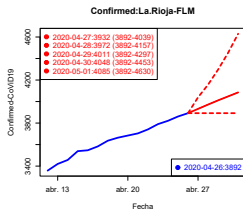


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: La Rioja



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

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- 1 Casos Confirmados
 - Predicciones

- 2 Fallecidos
 - Predicciones Fallecidos

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 6422

Países/Regiones distintos incorporados: 96

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	0.003	0.002	0.002	0.002	0.002	0.002	0.472	0.597	0.496
H2	0.008	0.005	0.007	0.005	0.004	0.005	0.57	0.735	0.611
H3	0.016	0.009	0.014	0.011	0.009	0.011	0.634	0.796	0.683
H4	0.03	0.016	0.024	0.021	0.013	0.019	0.662	0.821	0.728
H5	0.06	0.029	0.045	0.036	0.021	0.03	0.644	0.833	0.731

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	23521	23805	24041	24201	24264	24191
Andalucía	1157	1173	1188	1200	1209	1212
Aragón	726	736	745	751	753	750
Asturias	253	260	266	273	279	285
Islas.Baleares	179	181	183	185	185	184
Canarias	131	132	133	134	134	134
Cantabria	186	189	192	193	194	194
Castilla.La.Mancha	2365	2406	2440	2467	2485	2491
Castilla.y.León	1690	1712	1731	1746	1756	1757
Cataluña	4699	4768	4830	4877	4906	4905
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1189	1201	1211	1216	1214	1205
Extremadura	428	432	434	435	434	429
Galicia	405	411	416	420	423	424
Madrid	7986	8052	8097	8115	8098	8034
Melilla	2	2	2	2	2	2
Murcia	128	129	130	130	129	128
Navarra	432	436	440	443	441	436
País.Vasco	1241	1259	1274	1285	1290	1288
La.Rioja	320	324	326	328	328	326

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	23521	23973	24407	24829	25211	25569
Andalucía	1157	1180	1202	1223	1242	1260
Aragón	726	743	759	774	788	801
Asturias	253	259	265	271	277	282
Islas.Baleares	179	183	187	191	194	197
Canarias	131	133	136	138	140	142
Cantabria	186	191	195	199	203	206
Castilla.La.Mancha	2365	2414	2461	2507	2549	2588
Castilla.y.León	1690	1721	1750	1779	1805	1830
Cataluña	4699	4803	4902	4999	5086	5167
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1189	1212	1234	1255	1275	1293
Extremadura	428	436	444	451	458	464
Galicia	405	413	421	428	435	442
Madrid	7986	8118	8245	8369	8482	8589
Melilla	2	2	2	2	2	2
Murcia	128	130	132	134	136	138
Navarra	432	444	457	468	479	489
País.Vasco	1241	1268	1294	1319	1341	1362
La.Rioja	320	326	333	339	344	349

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	23521	23838	23969	24201	24320	24384
Andalucía	1157	1176	1181	1195	1204	1212
Aragón	726	737	740	747	750	753
Asturias	253	260	263	269	273	276
Islas.Baleares	179	182	182	183	184	185
Canarias	131	133	133	134	135	136
Cantabria	186	189	191	193	195	197
Castilla.La.Mancha	2365	2405	2426	2455	2468	2470
Castilla.y.León	1690	1714	1726	1743	1750	1753
Cataluña	4699	4780	4805	4867	4909	4936
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1189	1203	1209	1218	1222	1225
Extremadura	428	433	434	438	440	442
Galicia	405	411	413	418	420	421
Madrid	7986	8063	8131	8206	8255	8280
Melilla	2	2	2	2	2	2
Murcia	128	129	130	131	132	132
Navarra	432	433	434	438	438	440
País.Vasco	1241	1260	1266	1278	1285	1293
La.Rioja	320	324	325	328	329	330

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.015	0.012	0.022	0.029	0.032	0.028
Andalucía	0.016	0.014	0.027	0.037	0.045	0.047
Aragón	0.016	0.014	0.026	0.034	0.037	0.033
Asturias	0.032	0.026	0.052	0.078	0.103	0.126
Islas.Baleares	0.016	0.013	0.024	0.031	0.034	0.030
Canarias	0.012	0.010	0.019	0.024	0.026	0.021
Cantabria	0.017	0.017	0.030	0.040	0.044	0.041
Castilla.La.Mancha	0.018	0.017	0.032	0.043	0.051	0.053
Castilla.y.León	0.016	0.013	0.024	0.033	0.039	0.040
Cataluña	0.022	0.015	0.028	0.038	0.044	0.044
Ceuta	0.000	0.000	0.000	0.000	0.000	0.000
Comunidad.Valenciana	0.012	0.010	0.018	0.022	0.021	0.013
Extremadura	0.013	0.008	0.015	0.017	0.014	0.003
Galicia	0.020	0.014	0.027	0.037	0.044	0.047
Madrid	0.010	0.008	0.014	0.016	0.014	0.006
Melilla	0.000	0.000	0.000	0.000	0.000	0.000
Murcia	0.008	0.009	0.013	0.012	0.005	0.000
Navarra	0.011	0.010	0.019	0.024	0.021	0.008
País.Vasco	0.015	0.014	0.027	0.035	0.040	0.038
La.Rioja	0.014	0.011	0.020	0.025	0.024	0.017

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

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	0.015	0.019	0.038	0.056	0.072	0.087
Andalucía	0.016	0.020	0.039	0.057	0.074	0.089
Aragón	0.016	0.023	0.045	0.066	0.086	0.104
Asturias	0.032	0.025	0.049	0.073	0.094	0.114
Islas.Baleares	0.016	0.023	0.044	0.065	0.085	0.102
Canarias	0.012	0.019	0.037	0.054	0.070	0.085
Cantabria	0.017	0.024	0.047	0.070	0.090	0.109
Castilla.La.Mancha	0.018	0.021	0.041	0.060	0.078	0.094
Castilla.y.León	0.016	0.018	0.036	0.053	0.068	0.083
Cataluña	0.022	0.022	0.043	0.064	0.082	0.100
Ceuta	0.000	0.013	0.026	0.039	0.051	0.063
Comunidad.Valenciana	0.012	0.019	0.038	0.056	0.072	0.087
Extremadura	0.013	0.018	0.036	0.053	0.069	0.084
Galicia	0.020	0.020	0.039	0.058	0.075	0.090
Madrid	0.010	0.016	0.032	0.048	0.062	0.076
Melilla	0.000	0.013	0.026	0.039	0.051	0.063
Murcia	0.008	0.017	0.034	0.050	0.065	0.079
Navarra	0.011	0.029	0.057	0.084	0.109	0.132
País.Vasco	0.015	0.022	0.042	0.063	0.081	0.098
La.Rioja	0.014	0.020	0.039	0.058	0.075	0.091

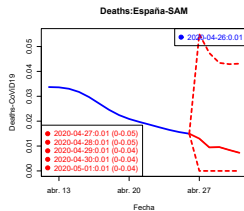
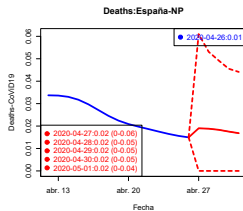
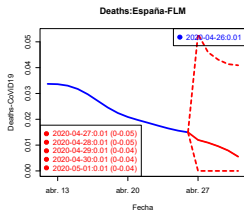
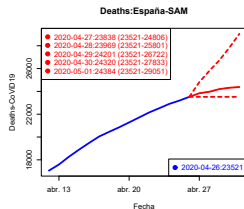
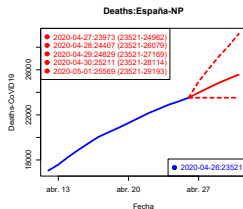
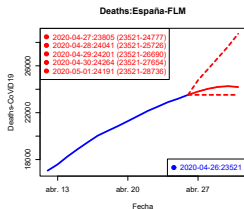
Table: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.015	0.013	0.019	0.029	0.034	0.037
Andalucía	0.016	0.016	0.021	0.033	0.041	0.047
Aragón	0.016	0.015	0.019	0.028	0.033	0.038
Asturias	0.032	0.027	0.039	0.063	0.079	0.091
Islas.Baleares	0.016	0.014	0.015	0.023	0.027	0.034
Canarias	0.012	0.013	0.017	0.026	0.031	0.036
Cantabria	0.017	0.017	0.026	0.039	0.049	0.057
Castilla.La.Mancha	0.018	0.017	0.026	0.038	0.044	0.044
Castilla.y.León	0.016	0.014	0.021	0.031	0.036	0.038
Cataluña	0.022	0.017	0.023	0.036	0.045	0.051
Ceuta	0.000	0.001	0.020	0.031	0.044	0.055
Comunidad.Valenciana	0.012	0.012	0.017	0.024	0.028	0.030
Extremadura	0.013	0.011	0.015	0.022	0.028	0.033
Galicia	0.020	0.016	0.020	0.031	0.036	0.040
Madrid	0.010	0.010	0.018	0.028	0.034	0.037
Melilla	0.000	0.002	0.020	0.033	0.047	0.061
Murcia	0.008	0.009	0.019	0.027	0.031	0.032
Navarra	0.011	0.003	0.006	0.013	0.014	0.018
País.Vasco	0.015	0.015	0.020	0.030	0.035	0.042
La.Rioja	0.014	0.012	0.017	0.024	0.027	0.030

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

Fallecidos: España

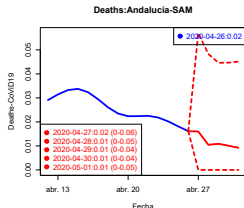
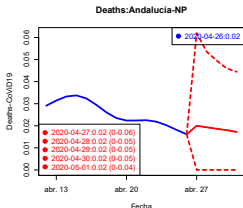
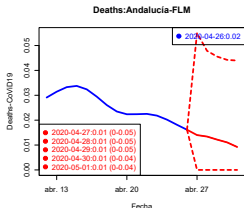
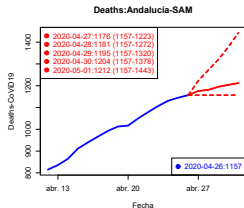
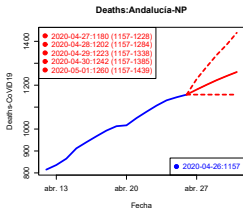
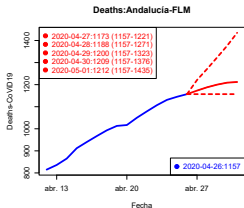


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Andalucía

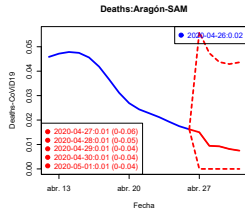
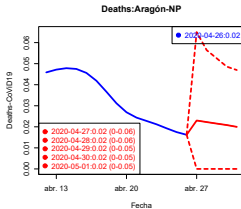
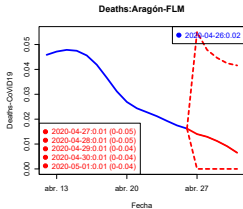
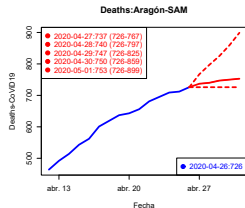
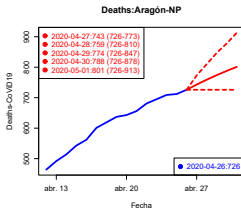
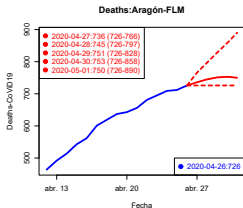


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

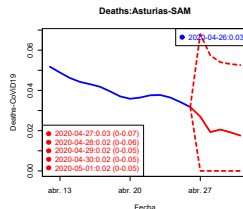
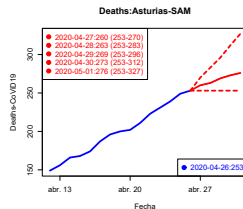
◀ Fallecidos

Fallecidos: Aragón

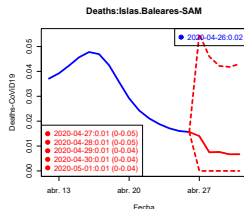
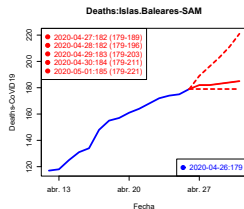


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

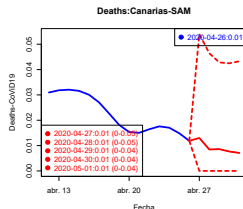
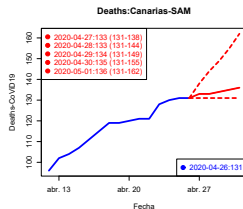
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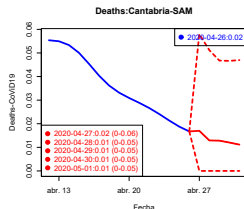
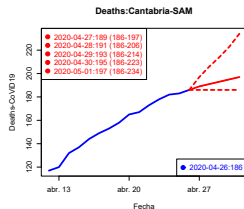
◀ Confirmados ◀ Fallecidos



◀ Confirmados

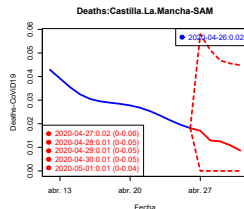
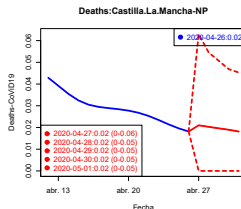
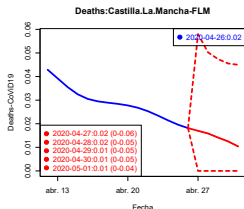
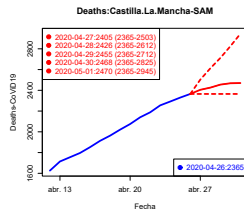
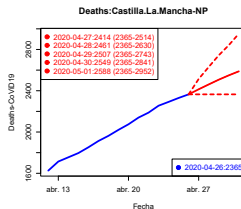
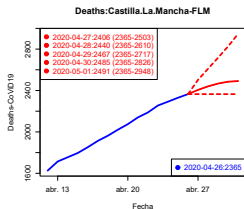


◀ Confirmados ◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Castilla-La Mancha

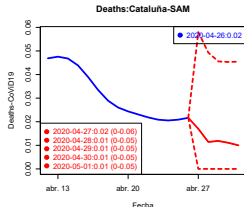
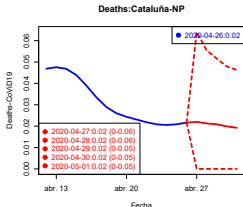
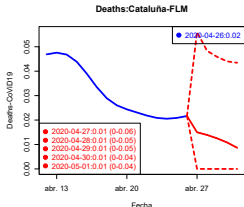
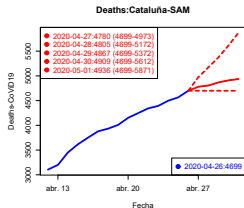
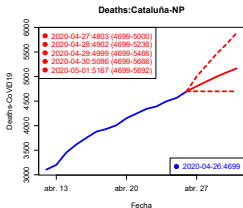
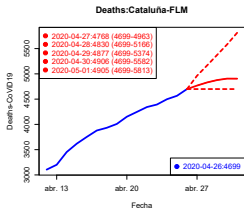


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

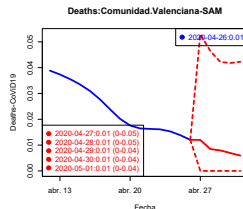
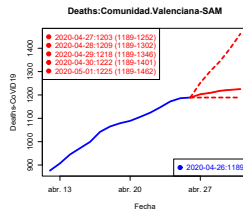
Fallecidos: Cataluña



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

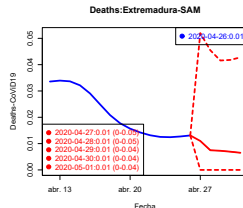
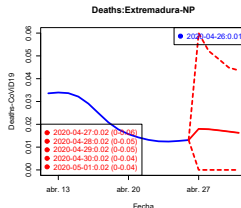
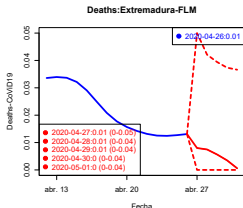
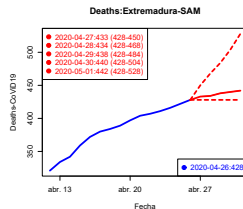
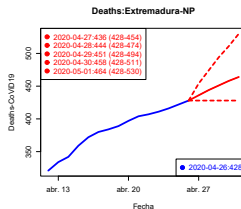
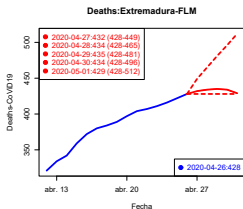
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Extremadura

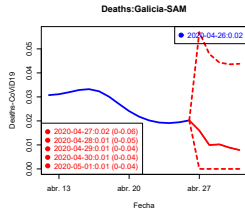
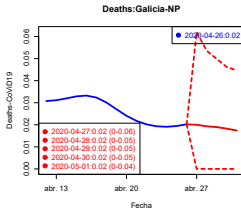
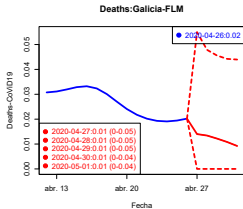
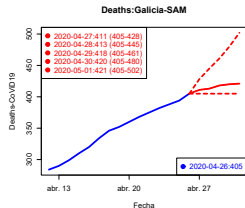
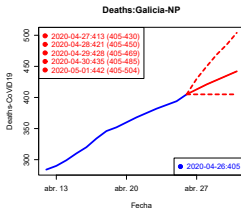
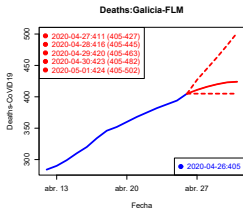


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Galicia

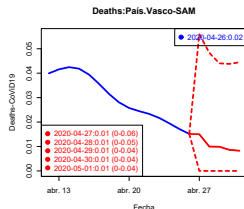
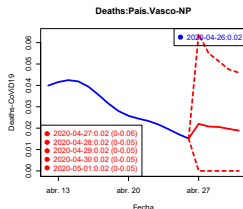
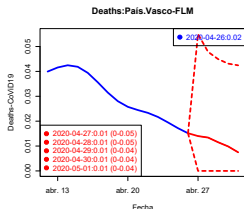
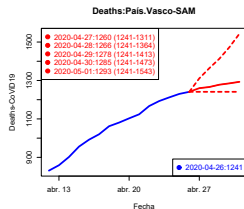
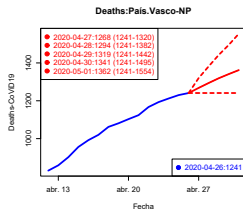
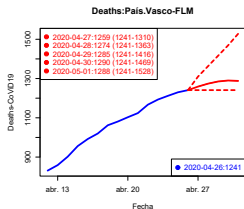


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: País Vasco

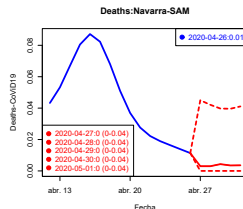
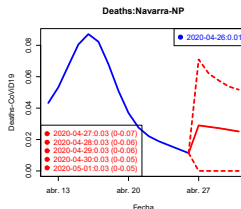
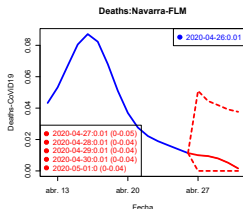
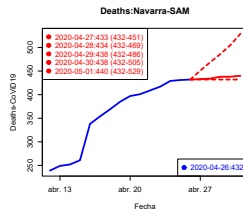
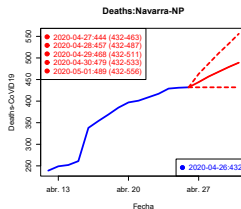
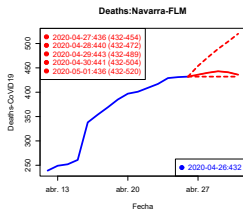


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Navarra

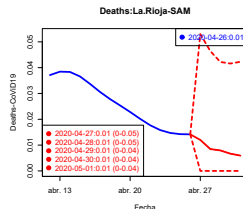
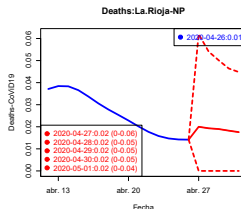
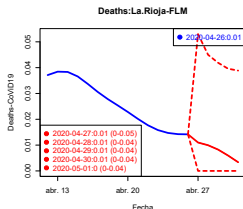
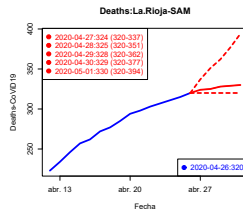
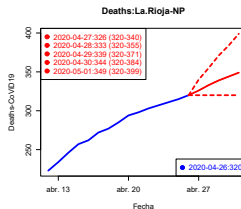
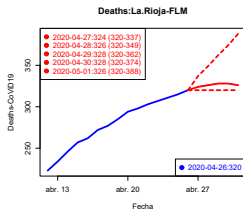


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: La Rioja



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

◀ Confirmados

◀ Fallecidos

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.