

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

Datos

Número de datos funcionales: 3149

Países/Regiones distintos incorporados: 156

Predicciones:

► España

► Andalucía

► Aragón

► Asturias

► I. Balears

► **Canarias**

► **Cantabria**

▶ Catalunya

► **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	0.005	0.001	0.005	0.003	0.001	0.003	0.431	0.913	0.447
H2	0.013	0.003	0.013	0.011	0.002	0.011	0.573	0.933	0.594
H3	0.028	0.006	0.027	0.026	0.005	0.024	0.622	0.942	0.644
H4	0.06	0.013	0.056	0.056	0.009	0.051	0.618	0.939	0.643
H5	0.112	0.024	0.103	0.106	0.016	0.098	0.606	0.938	0.634

Último dato: 2020-04-14 21:00 que se publica 2020-04-15 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	177633	181117	183926	186746	189460	191348
Andalucía	10595	10810	11012	11209	11411	11605
Aragón	4338	4437	4535	4630	4728	4826
Asturias	2096	2158	2223	2296	2378	2464
Islas.Baleares	1606	1636	1667	1698	1730	1761
Canarias	1975	2003	2027	2047	2066	2083
Cantabria	1823	1856	1892	1927	1960	1994
Castilla.La.Mancha	14680	15042	15413	15743	16041	16325
Castilla.y.León	13697	14230	14794	15408	16083	16787
Cataluña	36505	37438	38397	39352	40307	41244
Ceuta	98	99	99	98	98	98
Comunidad.Valenciana	9424	9648	9885	10128	10384	10648
Extremadura	2762	2838	2921	3009	3104	3205
Galicia	7708	7852	7985	8104	8217	8322
Madrid	49526	50563	51564	52544	53508	54378
Melilla	102	103	104	104	104	104
Murcia	1520	1549	1579	1609	1640	1671
Navarra	4246	4351	4455	4562	4674	4789
País.Vasco	11475	11742	12019	12295	12576	12860
La.Rioja	3457	3522	3581	3635	3685	3736

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

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	177633	180392	182903	185502	188037	190983
Andalucía	10595	10743	10865	10997	11141	11315
Aragón	4338	4407	4469	4530	4591	4658
Asturias	2096	2154	2217	2297	2383	2493
Islas.Baleares	1606	1631	1660	1694	1732	1783
Canarias	1975	1998	2021	2052	2085	2129
Cantabria	1823	1854	1888	1933	1980	2044
Castilla.La.Mancha	14680	14990	15298	15580	15843	16077
Castilla.y.León	13697	14418	14913	15454	16055	16680
Cataluña	36505	37159	37754	38344	38901	39504
Ceuta	98	102	106	109	113	115
Comunidad.Valenciana	9424	9627	9841	10103	10374	10729
Extremadura	2762	2852	2947	3060	3183	3347
Galicia	7708	7822	7919	8009	8096	8191
Madrid	49526	50163	50741	51388	52049	52870
Melilla	102	104	105	106	107	108
Murcia	1520	1544	1571	1606	1644	1693
Navarra	4246	4321	4390	4465	4540	4630
País.Vasco	11475	11661	11836	12031	12228	12468
La.Rioja	3457	3507	3552	3597	3638	3683

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

Tabla Previsión Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	177633	181958	186898	191595	199164	205636
Andalucía	10595	10824	11076	11353	11769	12190
Aragón	4338	4439	4543	4657	4840	5006
Asturias	2096	2165	2248	2348	2478	2604
Islas.Baleares	1606	1631	1660	1696	1754	1801
Canarias	1975	1999	2025	2048	2104	2148
Cantabria	1823	1853	1888	1924	1993	2048
Castilla.La.Mancha	14680	15035	15451	15774	16104	16457
Castilla.y.León	13697	14255	14878	15547	16458	17219
Cataluña	36505	37459	38576	39591	41169	42484
Ceuta	98	100	101	104	106	110
Comunidad.Valenciana	9424	9633	9856	10173	10656	11075
Extremadura	2762	2830	2904	3016	3182	3324
Galicia	7708	7857	8011	8159	8417	8666
Madrid	49526	50590	51873	52994	54804	56362
Melilla	102	103	104	105	108	111
Murcia	1520	1549	1582	1618	1679	1733
Navarra	4246	4351	4465	4586	4791	4959
País.Vasco	11475	11737	12019	12343	12868	13316
La.Rioja	3457	3524	3605	3674	3789	3898

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	0.024	0.020	0.035	0.051	0.067	0.077
Andalucía	0.021	0.020	0.039	0.058	0.077	0.095
Aragón	0.022	0.023	0.045	0.067	0.090	0.112
Asturias	0.033	0.029	0.061	0.095	0.134	0.176
Islas.Baleares	0.017	0.019	0.038	0.057	0.077	0.096
Canarias	0.011	0.014	0.026	0.037	0.046	0.054
Cantabria	0.015	0.018	0.038	0.057	0.075	0.094
Castilla.La.Mancha	0.023	0.025	0.050	0.072	0.093	0.112
Castilla.y.León	0.043	0.039	0.080	0.125	0.174	0.226
Cataluña	0.026	0.026	0.052	0.078	0.104	0.130
Ceuta	0.016	0.012	0.011	0.004	0.000	0.000
Comunidad.Valenciana	0.023	0.024	0.049	0.075	0.102	0.130
Extremadura	0.026	0.027	0.057	0.089	0.124	0.160
Galicia	0.018	0.019	0.036	0.051	0.066	0.080
Madrid	0.022	0.021	0.041	0.061	0.080	0.098
Melilla	0.011	0.011	0.019	0.022	0.023	0.022
Murcia	0.018	0.019	0.039	0.058	0.079	0.099
Navarra	0.024	0.025	0.049	0.074	0.101	0.128
País.Vasco	0.023	0.023	0.047	0.071	0.096	0.121
La.Rioja	0.018	0.019	0.036	0.051	0.066	0.081

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	0.024	0.016	0.030	0.044	0.059	0.075
Andalucía	0.021	0.014	0.025	0.038	0.052	0.068
Aragón	0.022	0.016	0.030	0.044	0.058	0.074
Asturias	0.033	0.027	0.057	0.096	0.137	0.189
Islas.Baleares	0.017	0.016	0.033	0.055	0.079	0.110
Canarias	0.011	0.011	0.023	0.039	0.056	0.078
Cantabria	0.015	0.017	0.036	0.060	0.086	0.121
Castilla.La.Mancha	0.023	0.021	0.042	0.061	0.079	0.095
Castilla.y.León	0.043	0.053	0.089	0.128	0.172	0.218
Cataluña	0.026	0.018	0.034	0.050	0.066	0.082
Ceuta	0.016	0.036	0.080	0.116	0.149	0.173
Comunidad.Valenciana	0.023	0.022	0.044	0.072	0.101	0.138
Extremadura	0.026	0.032	0.067	0.108	0.152	0.212
Galicia	0.018	0.015	0.027	0.039	0.050	0.063
Madrid	0.022	0.013	0.025	0.038	0.051	0.068
Melilla	0.011	0.015	0.030	0.042	0.051	0.061
Murcia	0.018	0.016	0.034	0.057	0.081	0.114
Navarra	0.024	0.018	0.034	0.052	0.069	0.091
País.Vasco	0.023	0.016	0.031	0.048	0.066	0.087
La.Rioja	0.018	0.015	0.028	0.041	0.052	0.065

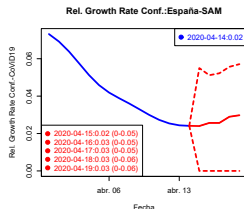
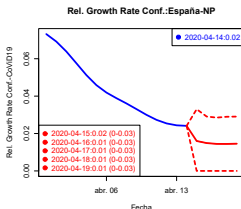
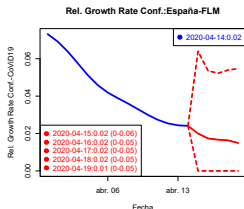
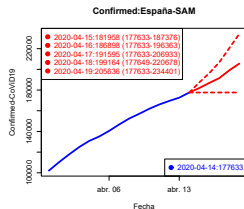
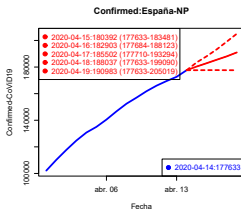
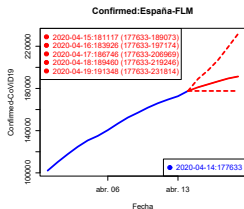
Table: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.024	0.024	0.052	0.079	0.121	0.158
Andalucía	0.021	0.022	0.045	0.072	0.111	0.151
Aragón	0.022	0.023	0.047	0.073	0.116	0.154
Asturias	0.033	0.033	0.073	0.120	0.182	0.242
Islas.Baleares	0.017	0.016	0.034	0.056	0.092	0.121
Canarias	0.011	0.012	0.025	0.037	0.065	0.087
Cantabria	0.015	0.016	0.035	0.055	0.093	0.124
Castilla.La.Mancha	0.023	0.024	0.053	0.075	0.097	0.121
Castilla.y.León	0.043	0.041	0.086	0.135	0.202	0.257
Cataluña	0.026	0.026	0.057	0.085	0.128	0.164
Ceuta	0.016	0.018	0.028	0.065	0.083	0.117
Comunidad.Valenciana	0.023	0.022	0.046	0.079	0.131	0.175
Extremadura	0.026	0.025	0.051	0.092	0.152	0.203
Galicia	0.018	0.019	0.039	0.058	0.092	0.124
Madrid	0.022	0.021	0.047	0.070	0.107	0.138
Melilla	0.011	0.009	0.020	0.033	0.060	0.087
Murcia	0.018	0.019	0.041	0.065	0.104	0.140
Navarra	0.024	0.025	0.052	0.080	0.128	0.168
País.Vasco	0.023	0.023	0.047	0.076	0.121	0.160
La.Rioja	0.018	0.019	0.043	0.063	0.096	0.128

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

Confirmados: España

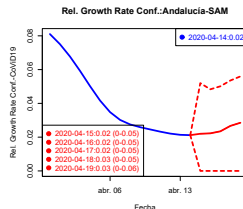
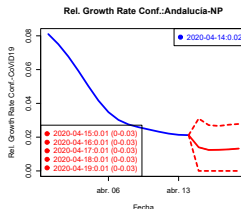
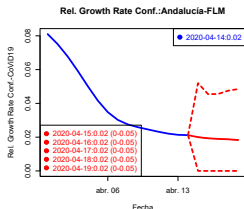
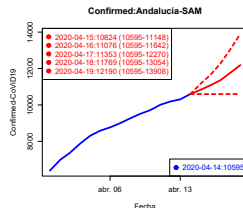
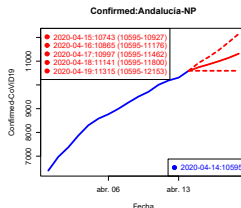
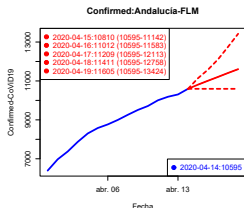


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Andalucía

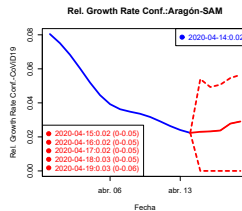
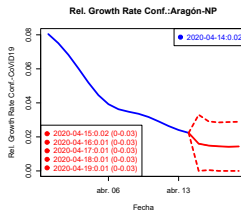
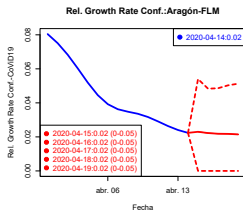
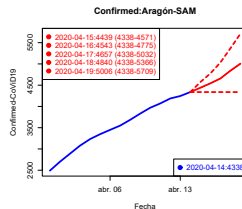
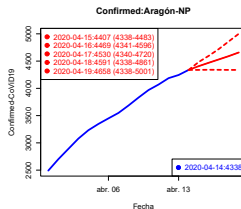
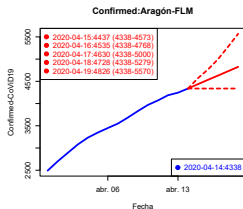


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

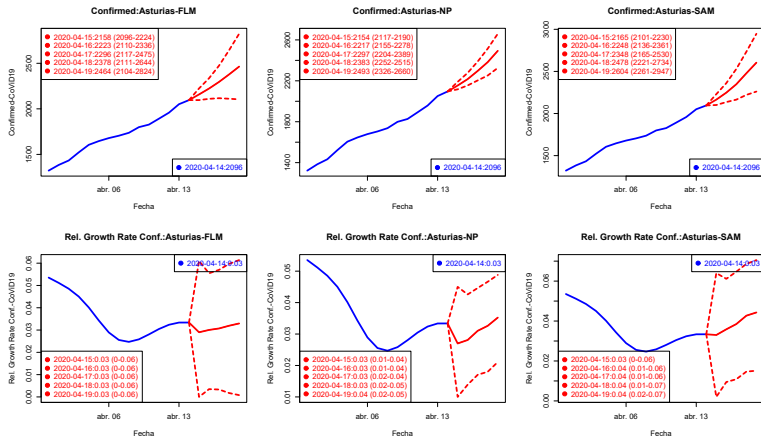


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

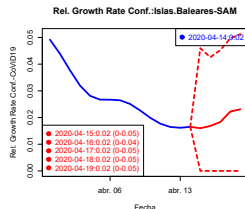
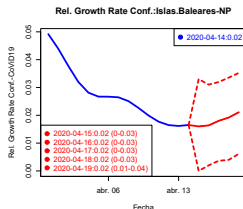
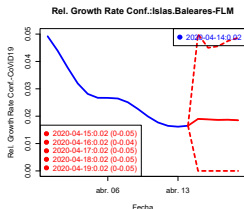
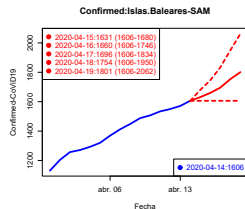
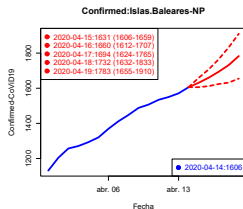
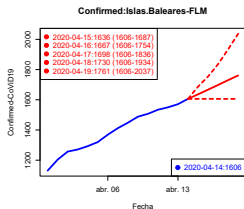


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

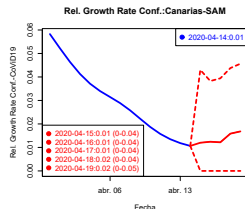
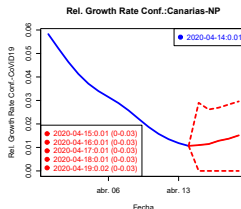
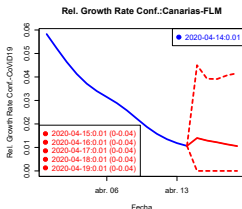
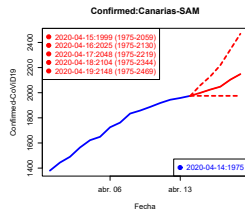
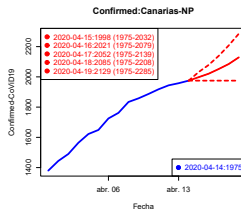
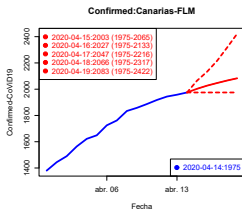


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

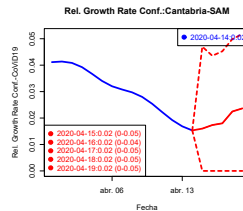
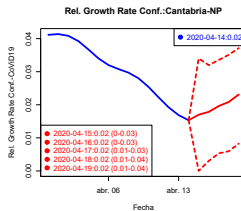
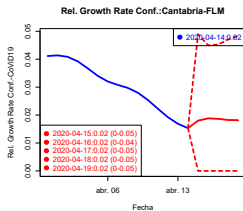
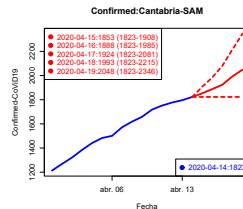
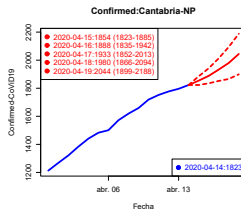
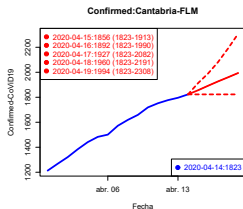


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

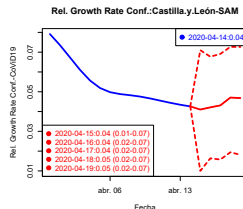
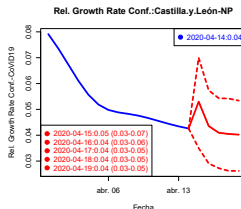
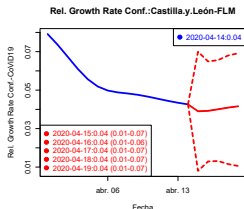
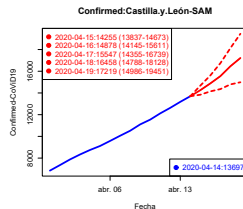
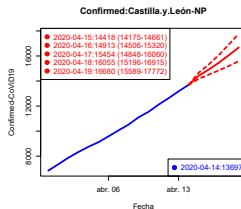
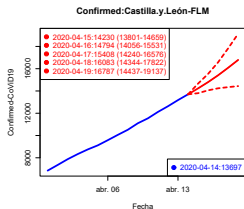


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

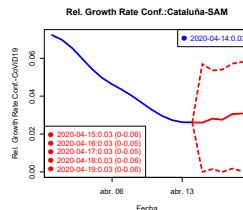
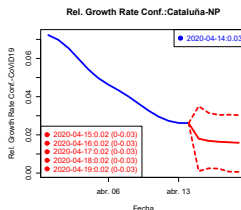
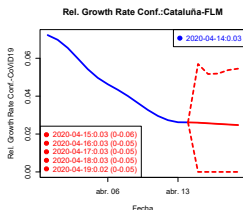
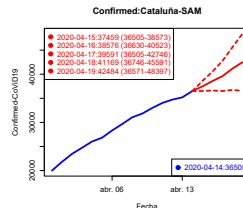
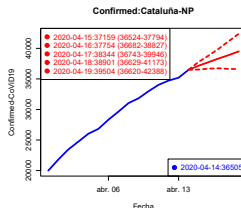
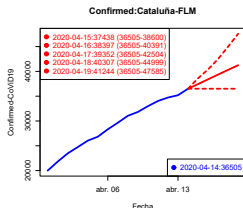


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña



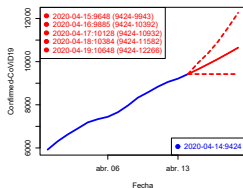
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

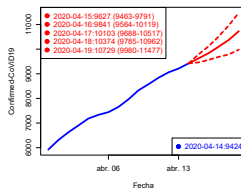
◀ Fallecidos

Confirmados: C. Valenciana

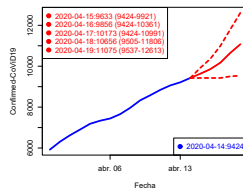
Confirmed: Comunidad.Valenciana-FLM



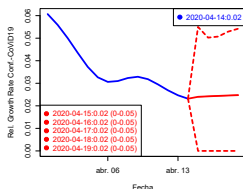
Confirmed: Comunidad.Valenciana-NP



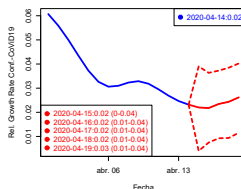
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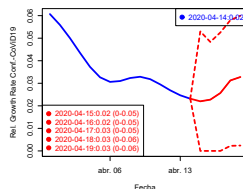
Rel. Growth Rate Conf.: Comunidad.Valenciana-FLM



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



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

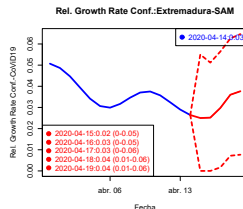
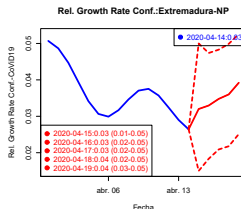
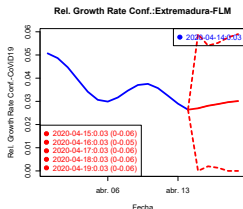
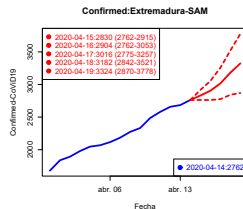
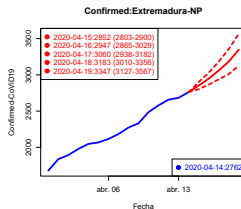
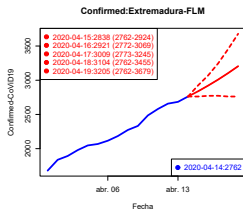


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura

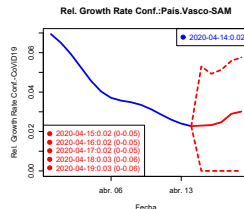
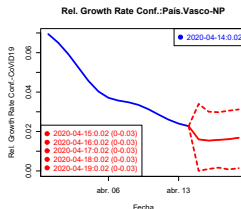
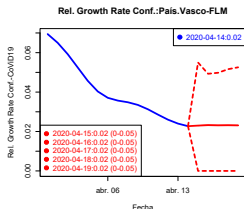
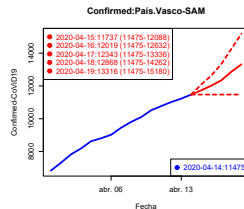
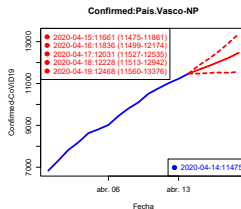
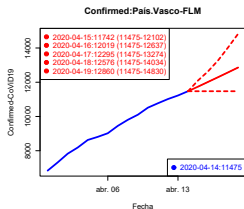


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: País Vasco



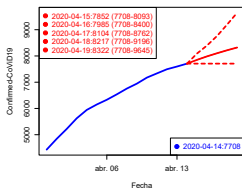
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

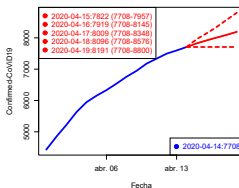
◀ Fallecidos

Confirmados: Galicia

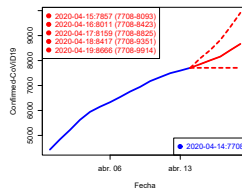
Confirmed:Galicia-FLM



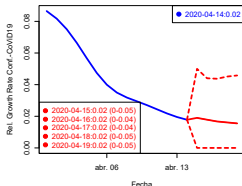
Confirmed:Galicia-NP



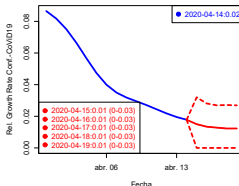
Confirmed:Galicia-SAM



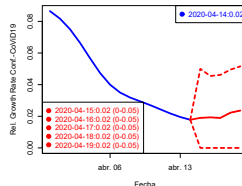
Rel. Growth Rate Conf.:Galicia-FLM



Rel. Growth Rate Conf.:Galicia-NP



Rel. Growth Rate Conf.:Galicia-SAM

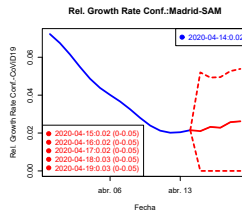
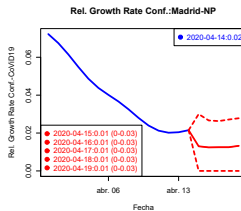
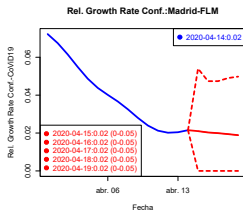
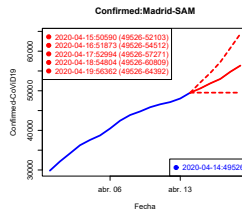
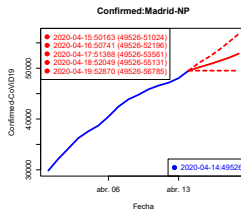
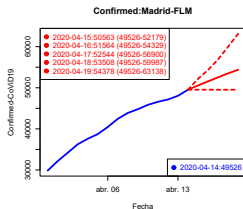


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

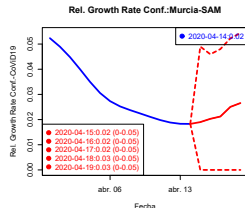
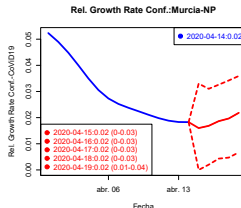
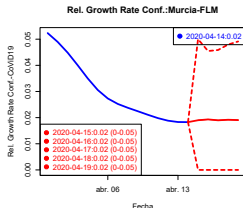
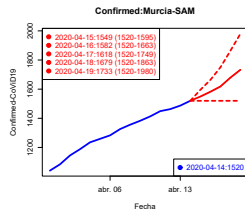
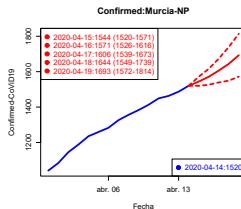
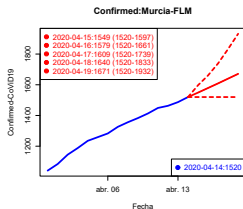


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

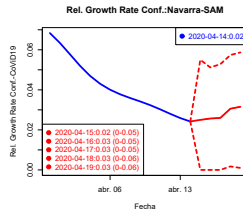
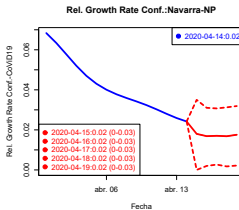
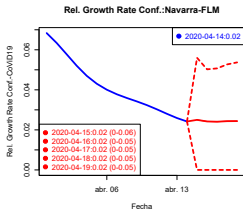
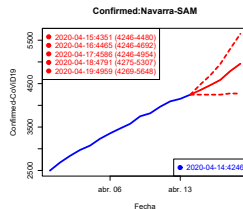
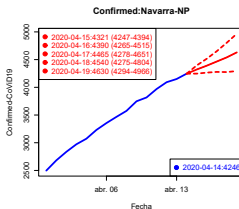
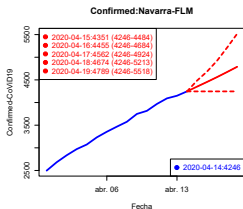


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

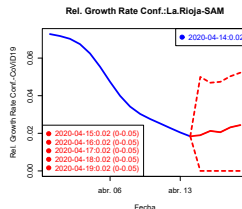
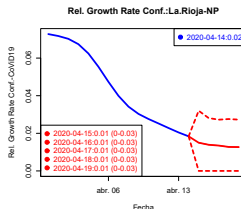
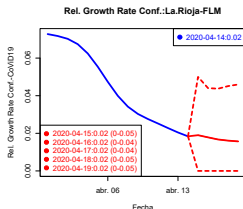
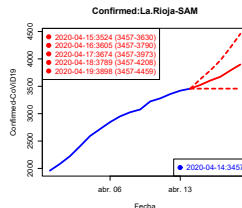
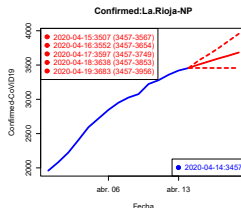
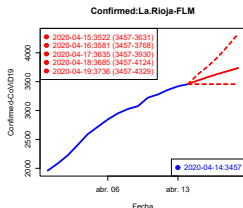
◀ Fallecidos

Confirmados: Navarra



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

Confirmados: La Rioja



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

◀ Confirmados

◀ Fallecidos

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 - Predicciones

- 2 Fallecidos
 - Predicciones Fallecidos

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 4502

Países/Regiones distintos incorporados: 84

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	0.005	0.003	0.004	0.003	0.003	0.003	0.468	0.65	0.518
H2	0.016	0.008	0.01	0.008	0.005	0.008	0.547	0.781	0.696
H3	0.032	0.015	0.019	0.02	0.012	0.018	0.617	0.833	0.769
H4	0.063	0.028	0.035	0.039	0.016	0.031	0.646	0.849	0.796
H5	0.132	0.054	0.072	0.09	0.028	0.053	0.623	0.855	0.792

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	18579	19022	19406	19651	19745	19701
Andalucía	865	903	932	951	959	963
Aragón	514	537	555	567	572	574
Asturias	166	175	185	195	205	217
Islas.Baleares	125	130	134	137	138	139
Canarias	104	105	106	105	104	104
Cantabria	132	138	142	144	145	144
Castilla.La.Mancha	1755	1816	1876	1931	1981	2028
Castilla.y.León	1337	1370	1399	1417	1421	1413
Cataluña	3756	3830	3888	3913	3900	3843
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	945	970	989	998	996	980
Extremadura	342	351	357	359	357	351
Galicia	299	309	317	320	319	313
Madrid	6724	6833	6926	6972	6965	6913
Melilla	2	2	2	2	2	2
Murcia	109	112	115	117	118	119
Navarra	252	256	260	261	260	256
País.Vasco	902	936	966	991	1009	1025
La.Rioja	246	255	264	272	280	286

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	18579	19174	19767	20356	20948	21517
Andalucía	865	907	947	989	1030	1069
Aragón	514	540	565	591	616	641
Asturias	166	173	180	187	193	200
Islas.Baleares	125	130	135	140	145	150
Canarias	104	107	109	112	114	116
Cantabria	132	138	144	150	156	162
Castilla.La.Mancha	1755	1817	1879	1940	2001	2061
Castilla.y.León	1337	1386	1434	1481	1529	1575
Cataluña	3756	3874	3992	4109	4227	4341
Ceuta	4	4	4	5	5	5
Comunidad.Valenciana	945	982	1017	1052	1087	1122
Extremadura	342	354	366	378	390	402
Galicia	299	313	327	342	356	370
Madrid	6724	6892	7057	7223	7383	7538
Melilla	2	2	2	2	2	2
Murcia	109	114	119	124	129	134
Navarra	252	260	268	275	283	291
País.Vasco	902	937	971	1005	1039	1072
La.Rioja	246	256	266	276	286	296

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	18579	19200	19765	20428	21271	21588
Andalucía	865	904	940	972	999	1062
Aragón	514	540	563	584	608	661
Asturias	166	177	188	199	210	224
Islas.Baleares	125	133	145	158	175	197
Canarias	104	106	109	114	120	124
Cantabria	132	141	154	168	185	211
Castilla.La.Mancha	1755	1839	1908	1991	2086	2122
Castilla.y.León	1337	1373	1414	1451	1498	1508
Cataluña	3756	3874	3996	4179	4424	4558
Ceuta	4	4	4	5	6	7
Comunidad.Valenciana	945	975	1006	1044	1094	1155
Extremadura	342	353	364	377	392	407
Galicia	299	309	319	329	341	368
Madrid	6724	6906	7063	7267	7531	7537
Melilla	2	2	2	2	3	3
Murcia	109	110	112	113	115	120
Navarra	252	258	265	273	285	290
País.Vasco	902	943	979	1013	1047	1079
La.Rioja	246	255	265	275	285	292

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.032	0.024	0.045	0.058	0.063	0.060
Andalucía	0.037	0.044	0.078	0.099	0.109	0.113
Aragón	0.048	0.045	0.080	0.102	0.113	0.116
Asturias	0.062	0.056	0.113	0.172	0.235	0.305
Islas.Baleares	0.045	0.039	0.070	0.092	0.107	0.109
Canarias	0.027	0.009	0.016	0.014	0.000	0.000
Cantabria	0.059	0.045	0.076	0.091	0.097	0.090
Castilla.La.Mancha	0.042	0.035	0.069	0.100	0.129	0.156
Castilla.y.León	0.032	0.025	0.047	0.060	0.063	0.057
Cataluña	0.030	0.020	0.035	0.042	0.038	0.023
Ceuta	0.000	0.000	0.000	0.000	0.000	0.000
Comunidad.Valenciana	0.038	0.026	0.047	0.056	0.054	0.037
Extremadura	0.032	0.026	0.044	0.050	0.044	0.026
Galicia	0.034	0.034	0.059	0.069	0.065	0.046
Madrid	0.024	0.016	0.030	0.037	0.036	0.028
Melilla	0.000	0.000	0.000	0.000	0.000	0.000
Murcia	0.038	0.023	0.052	0.075	0.085	0.087
Navarra	0.027	0.017	0.032	0.037	0.032	0.015
País.Vasco	0.042	0.038	0.071	0.098	0.119	0.137
La.Rioja	0.045	0.036	0.073	0.107	0.136	0.163

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	0.032	0.032	0.064	0.096	0.127	0.158
Andalucía	0.037	0.048	0.095	0.143	0.190	0.236
Aragón	0.048	0.050	0.099	0.149	0.198	0.247
Asturias	0.062	0.041	0.083	0.124	0.164	0.204
Islas.Baleares	0.045	0.041	0.081	0.120	0.160	0.199
Canarias	0.027	0.024	0.048	0.072	0.096	0.118
Cantabria	0.059	0.046	0.090	0.135	0.179	0.224
Castilla.La.Mancha	0.042	0.035	0.071	0.106	0.140	0.174
Castilla.y.León	0.032	0.037	0.073	0.108	0.143	0.178
Cataluña	0.030	0.031	0.063	0.094	0.125	0.156
Ceuta	0.000	0.048	0.095	0.142	0.190	0.235
Comunidad.Valenciana	0.038	0.039	0.076	0.113	0.151	0.187
Extremadura	0.032	0.036	0.071	0.105	0.140	0.174
Galicia	0.034	0.048	0.095	0.143	0.189	0.236
Madrid	0.024	0.025	0.050	0.074	0.098	0.121
Melilla	0.000	0.021	0.042	0.063	0.083	0.103
Murcia	0.038	0.046	0.091	0.136	0.181	0.224
Navarra	0.027	0.031	0.062	0.093	0.124	0.154
País.Vasco	0.042	0.038	0.077	0.114	0.152	0.189
La.Rioja	0.045	0.041	0.083	0.123	0.163	0.202

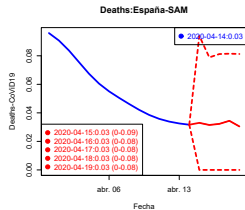
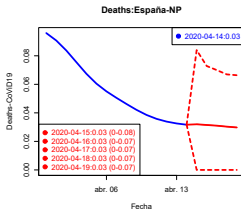
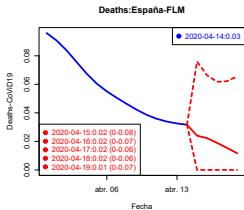
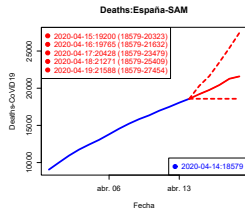
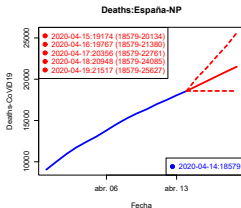
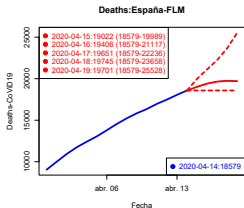
Table: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.032	0.033	0.064	0.100	0.145	0.162
Andalucía	0.037	0.045	0.086	0.123	0.155	0.228
Aragón	0.048	0.050	0.095	0.137	0.183	0.285
Asturias	0.062	0.067	0.130	0.197	0.262	0.350
Islas.Baleares	0.045	0.060	0.162	0.265	0.395	0.574
Canarias	0.027	0.021	0.051	0.094	0.156	0.194
Cantabria	0.059	0.068	0.167	0.271	0.398	0.594
Castilla.La.Mancha	0.042	0.048	0.087	0.134	0.189	0.209
Castilla.y.León	0.032	0.027	0.057	0.085	0.120	0.128
Cataluña	0.030	0.031	0.064	0.112	0.178	0.214
Ceuta	0.000	0.013	0.066	0.227	0.390	0.670
Comunidad.Valenciana	0.038	0.031	0.065	0.105	0.158	0.222
Extremadura	0.032	0.033	0.065	0.101	0.146	0.190
Galicia	0.034	0.034	0.067	0.100	0.139	0.230
Madrid	0.024	0.027	0.050	0.081	0.120	0.121
Melilla	0.000	0.014	0.051	0.091	0.172	0.216
Murcia	0.038	0.013	0.031	0.038	0.054	0.100
Navarra	0.027	0.025	0.050	0.083	0.130	0.148
País.Vasco	0.042	0.045	0.085	0.123	0.161	0.196
La.Rioja	0.045	0.036	0.075	0.119	0.160	0.186

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

Fallecidos: España

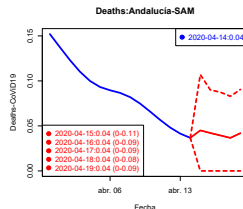
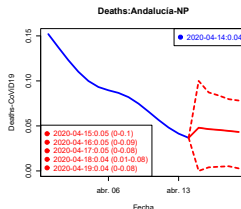
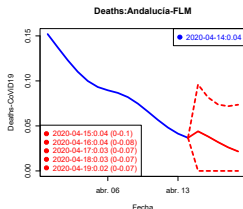
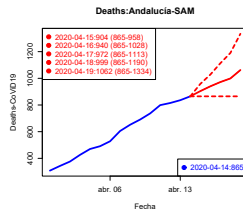
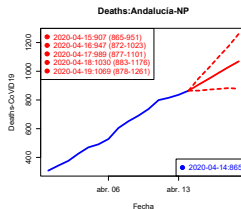
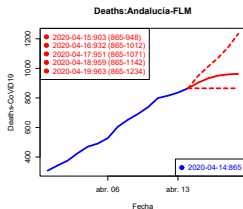


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

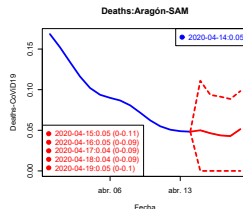
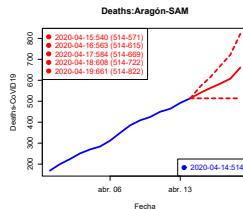
Fallecidos: Andalucía



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

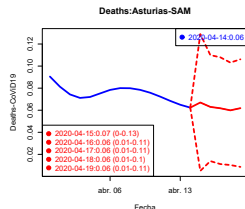
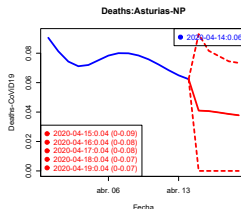
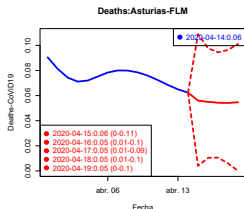
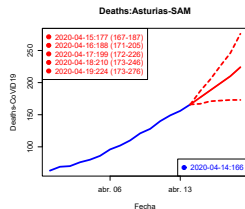
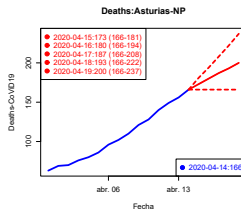
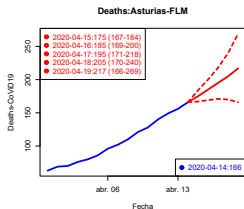
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

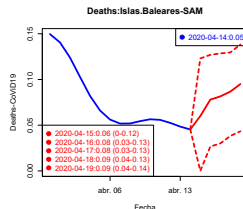
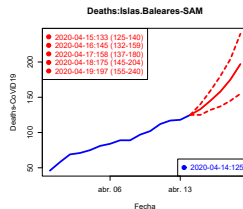
Fallecidos: Asturias



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

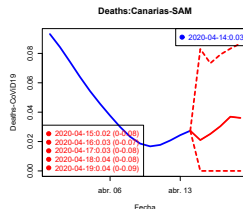
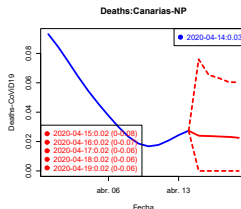
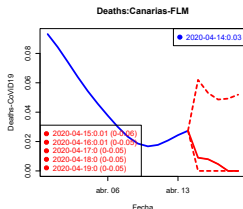
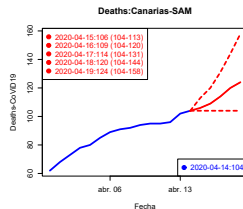
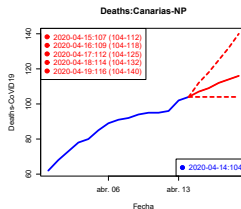
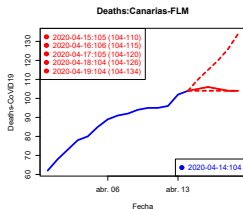
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Canarias

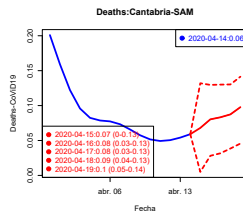
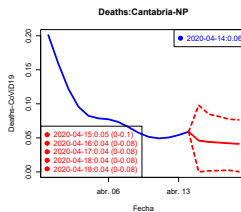
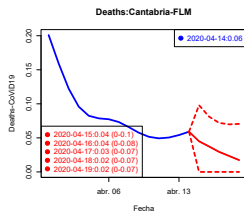
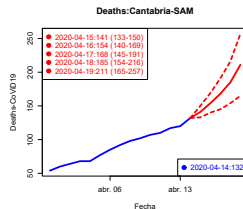
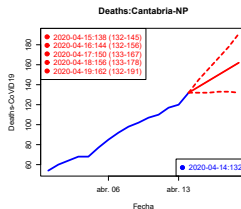
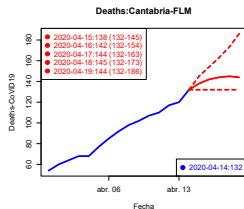


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

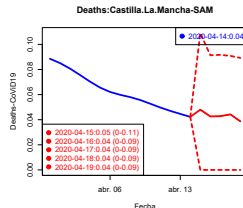
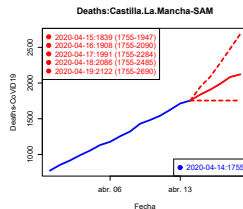
Fallecidos: Cantabria



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

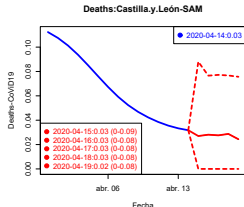
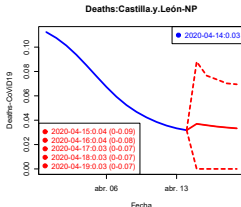
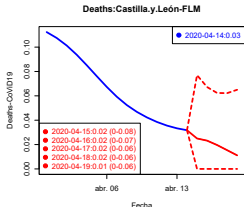
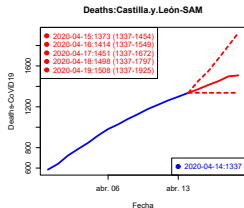
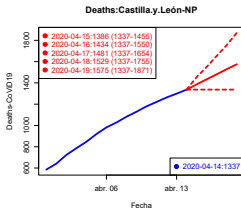
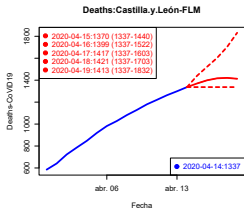
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Castilla y León

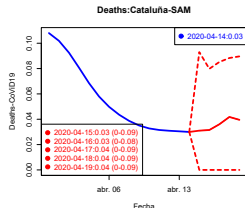
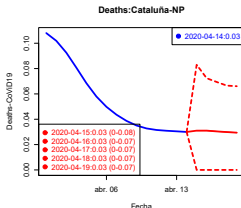
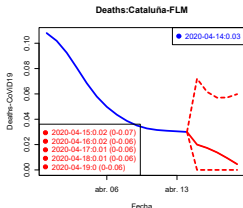
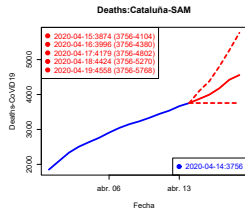
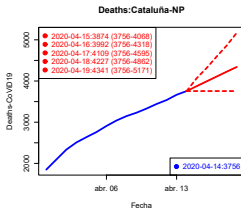
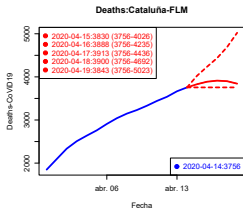


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

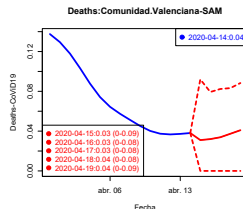
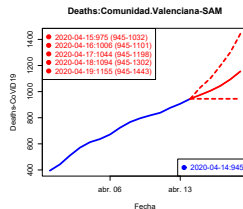
Fallecidos: Cataluña



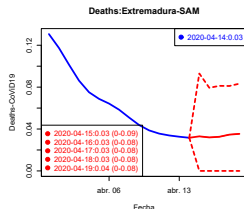
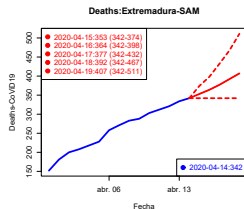
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

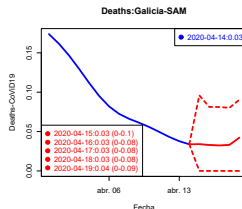
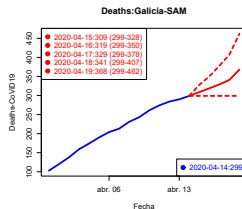


◀ Confirmados ◀ Fallecidos



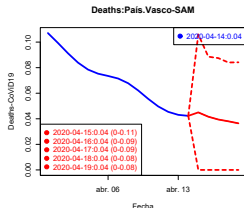
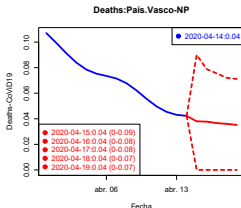
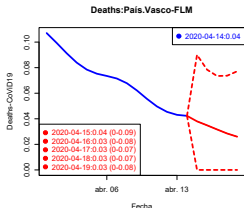
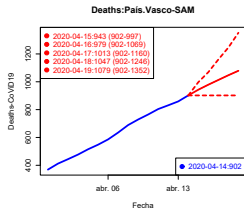
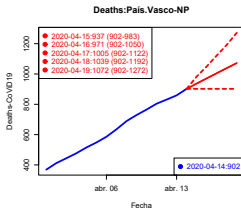
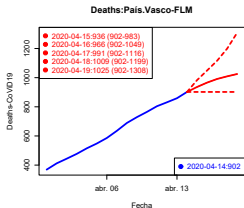
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◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: País Vasco

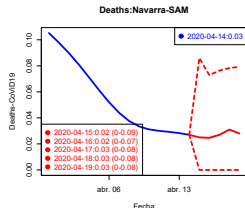
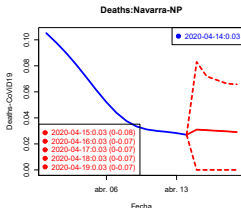
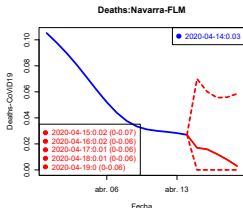
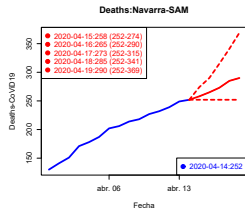
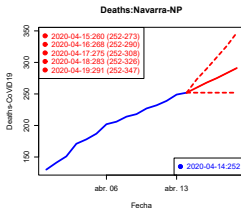
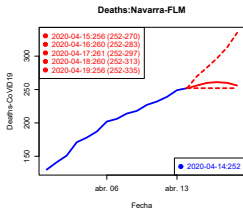


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

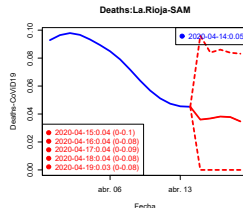
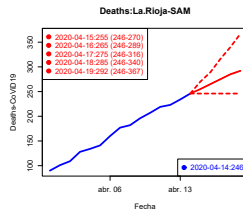
Fallecidos: Navarra



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

◀ Confirmados

◀ Fallecidos



◀ 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.