

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

Datos

Número de datos funcionales: 3305

Países/Regiones distintos incorporados: 158

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	0.433	0.91	0.447
H2	0.013	0.003	0.012	0.011	0.002	0.011	0.574	0.931	0.596
H3	0.027	0.006	0.026	0.025	0.005	0.024	0.624	0.94	0.645
H4	0.058	0.013	0.054	0.054	0.009	0.051	0.62	0.937	0.644
H5	0.108	0.024	0.1	0.102	0.016	0.091	0.608	0.936	0.635

Último dato: 2020-04-15 21:00 que se publica 2020-04-16 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	182816	186027	188836	191681	194470	197089
Andalucía	10807	11026	11246	11463	11688	11909
Aragón	4566	4697	4841	4990	5149	5311
Asturias	2170	2236	2309	2390	2480	2576
Islas.Baleares	1637	1668	1698	1729	1762	1795
Canarias	1988	2012	2034	2053	2068	2083
Cantabria	1845	1876	1908	1939	1967	1996
Castilla.La.Mancha	15151	15536	15920	16278	16629	16967
Castilla.y.León	14380	14952	15575	16257	17007	17797
Cataluña	37354	38249	39110	39977	40881	41779
Ceuta	100	102	104	106	107	108
Comunidad.Valenciana	9615	9836	10076	10320	10572	10832
Extremadura	2881	2968	3065	3168	3280	3396
Galicia	7873	8022	8166	8298	8428	8550
Madrid	50694	51723	52697	53686	54729	55747
Melilla	103	104	105	106	107	107
Murcia	1598	1639	1687	1737	1792	1848
Navarra	4348	4451	4555	4662	4773	4888
País.Vasco	11790	12070	12365	12663	12972	13286
La.Rioja	3916	4077	4270	4480	4711	4949

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

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	182816	186036	189022	192205	195512	199703
Andalucía	10807	10972	11136	11332	11543	11817
Aragón	4566	4658	4742	4828	4918	5032
Asturias	2170	2244	2330	2432	2552	2706
Islas.Baleares	1637	1660	1687	1718	1754	1800
Canarias	1988	2007	2028	2054	2083	2120
Cantabria	1845	1872	1903	1940	1980	2034
Castilla.La.Mancha	15151	15458	15725	15975	16205	16445
Castilla.y.León	14380	15137	15631	16139	16719	17351
Cataluña	37354	38045	38636	39224	39814	40538
Ceuta	100	102	104	105	107	108
Comunidad.Valenciana	9615	9839	10093	10386	10707	11140
Extremadura	2881	2975	3078	3193	3327	3506
Galicia	7873	7988	8082	8185	8291	8426
Madrid	50694	51449	52206	53101	54056	55301
Melilla	103	104	105	106	107	108
Murcia	1598	1633	1676	1728	1788	1865
Navarra	4348	4431	4513	4604	4699	4822
País.Vasco	11790	12010	12233	12483	12747	13086
La.Rioja	3916	4026	4110	4195	4285	4400

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

Tabla Previsión Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	182816	187449	192707	197712	205318	212021
Andalucía	10807	11037	11284	11573	11977	12401
Aragón	4566	4700	4855	5017	5233	5443
Asturias	2170	2242	2329	2435	2572	2699
Islas.Baleares	1637	1666	1697	1728	1775	1818
Canarias	1988	2010	2032	2052	2091	2128
Cantabria	1845	1871	1901	1930	1979	2032
Castilla.La.Mancha	15151	15531	15971	16317	16780	17145
Castilla.y.León	14380	14981	15674	16371	17307	18119
Cataluña	37354	38300	39341	40280	41735	43033
Ceuta	100	102	104	107	111	114
Comunidad.Valenciana	9615	9800	10031	10279	10665	11076
Extremadura	2881	2953	3048	3157	3310	3467
Galicia	7873	8023	8172	8332	8572	8839
Madrid	50694	51836	53176	54419	56370	57878
Melilla	103	104	105	107	110	112
Murcia	1598	1641	1694	1754	1831	1897
Navarra	4348	4449	4561	4670	4847	5016
País.Vasco	11790	12059	12362	12670	13133	13609
La.Rioja	3916	4075	4301	4552	4843	5100

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	0.026	0.018	0.033	0.048	0.064	0.078
Andalucía	0.021	0.020	0.041	0.061	0.082	0.102
Aragón	0.032	0.029	0.060	0.093	0.128	0.163
Asturias	0.034	0.030	0.064	0.101	0.143	0.187
Islas.Baleares	0.018	0.019	0.037	0.056	0.076	0.096
Canarias	0.009	0.012	0.023	0.033	0.040	0.048
Cantabria	0.014	0.017	0.034	0.051	0.066	0.082
Castilla.La.Mancha	0.026	0.025	0.051	0.074	0.098	0.120
Castilla.y.León	0.045	0.040	0.083	0.131	0.183	0.238
Cataluña	0.026	0.024	0.047	0.070	0.094	0.118
Ceuta	0.018	0.018	0.039	0.056	0.071	0.083
Comunidad.Valenciana	0.022	0.023	0.048	0.073	0.100	0.127
Extremadura	0.031	0.030	0.064	0.099	0.138	0.179
Galicia	0.018	0.019	0.037	0.054	0.070	0.086
Madrid	0.023	0.020	0.040	0.059	0.080	0.100
Melilla	0.010	0.011	0.022	0.030	0.034	0.037
Murcia	0.029	0.026	0.055	0.087	0.121	0.156
Navarra	0.023	0.024	0.048	0.072	0.098	0.124
País.Vasco	0.024	0.024	0.049	0.074	0.100	0.127
La.Rioja	0.055	0.041	0.090	0.144	0.203	0.264

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	0.026	0.018	0.034	0.051	0.069	0.092
Andalucía	0.021	0.015	0.030	0.049	0.068	0.093
Aragón	0.032	0.020	0.038	0.057	0.077	0.102
Asturias	0.034	0.034	0.074	0.121	0.176	0.247
Islas.Baleares	0.018	0.014	0.030	0.050	0.071	0.099
Canarias	0.009	0.010	0.020	0.033	0.048	0.066
Cantabria	0.014	0.015	0.031	0.051	0.073	0.102
Castilla.La.Mancha	0.026	0.020	0.038	0.054	0.070	0.085
Castilla.y.León	0.045	0.053	0.087	0.122	0.163	0.207
Cataluña	0.026	0.019	0.034	0.050	0.066	0.085
Ceuta	0.018	0.017	0.038	0.052	0.065	0.076
Comunidad.Valenciana	0.022	0.023	0.050	0.080	0.114	0.159
Extremadura	0.031	0.033	0.068	0.108	0.155	0.217
Galicia	0.018	0.015	0.027	0.040	0.053	0.070
Madrid	0.023	0.015	0.030	0.047	0.066	0.091
Melilla	0.010	0.013	0.021	0.031	0.040	0.053
Murcia	0.029	0.022	0.049	0.081	0.119	0.167
Navarra	0.023	0.019	0.038	0.059	0.081	0.109
País.Vasco	0.024	0.019	0.038	0.059	0.081	0.110
La.Rioja	0.055	0.028	0.050	0.071	0.094	0.123

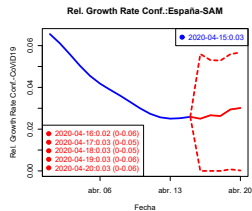
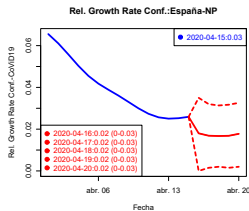
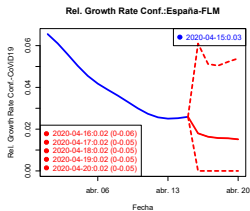
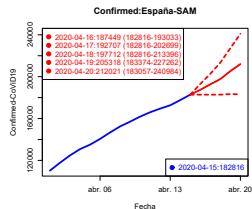
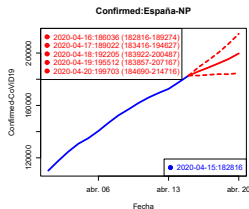
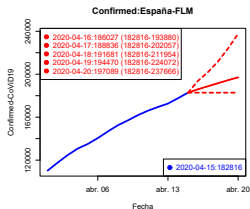
Table: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.026	0.025	0.054	0.081	0.123	0.160
Andalucía	0.021	0.021	0.044	0.071	0.108	0.148
Aragón	0.032	0.029	0.063	0.099	0.146	0.192
Asturias	0.034	0.033	0.073	0.122	0.185	0.244
Islas.Baleares	0.018	0.018	0.037	0.055	0.084	0.111
Canarias	0.009	0.011	0.022	0.032	0.052	0.070
Cantabria	0.014	0.014	0.030	0.046	0.073	0.101
Castilla.La.Mancha	0.026	0.025	0.054	0.077	0.107	0.132
Castilla.y.León	0.045	0.042	0.090	0.138	0.204	0.260
Cataluña	0.026	0.025	0.053	0.078	0.117	0.152
Ceuta	0.018	0.018	0.038	0.073	0.107	0.141
Comunidad.Valenciana	0.022	0.019	0.043	0.069	0.109	0.152
Extremadura	0.031	0.025	0.058	0.096	0.149	0.203
Galicia	0.018	0.019	0.038	0.058	0.089	0.123
Madrid	0.023	0.023	0.049	0.073	0.112	0.142
Melilla	0.010	0.009	0.021	0.036	0.065	0.090
Murcia	0.029	0.027	0.060	0.097	0.146	0.187
Navarra	0.023	0.023	0.049	0.074	0.115	0.154
País.Vasco	0.024	0.023	0.049	0.075	0.114	0.154
La.Rioja	0.055	0.041	0.098	0.162	0.237	0.302

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

Confirmados: España



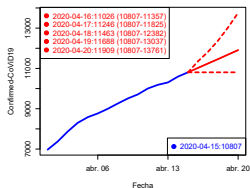
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

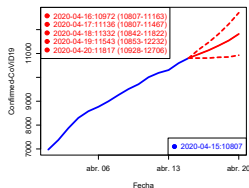
◀ Fallecidos

Confirmados: Andalucía

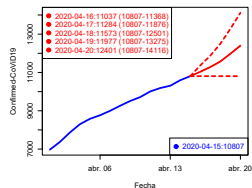
Confirmed:Andalucía-FLM



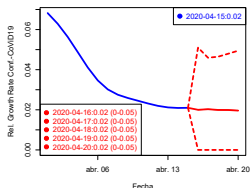
Confirmed:Andalucía-NP



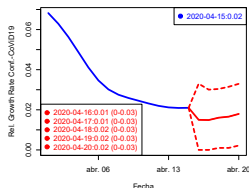
Confirmed:Andalucía-SAM



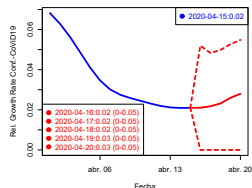
Rel. Growth Rate Conf.:Andalucia-FLM



Rel. Growth Rate Conf.:Andalucia-NP



Rel. Growth Rate Conf.:Andalucía-SAM

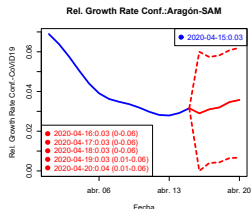
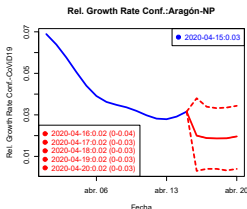
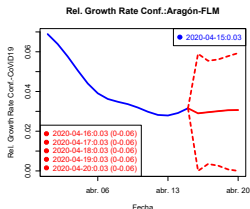
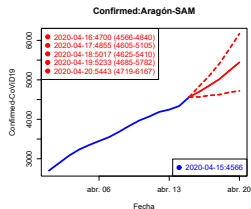
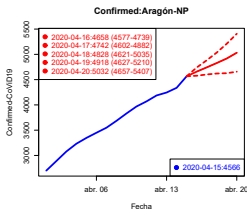
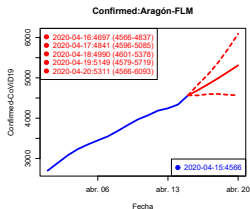


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

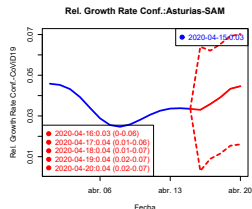
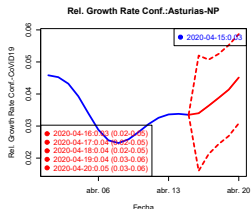
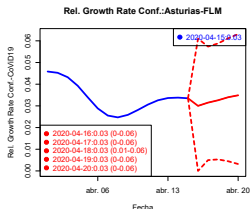
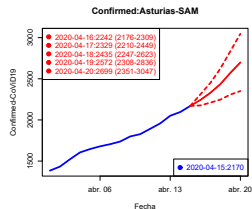
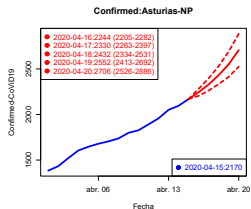
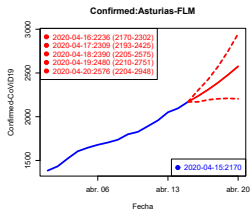


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

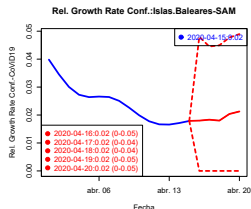
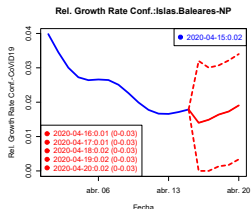
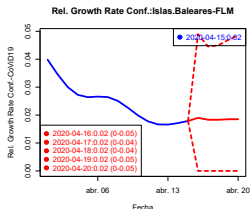
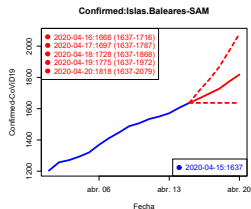
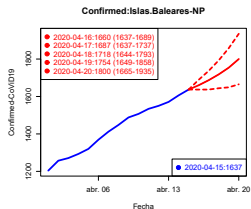
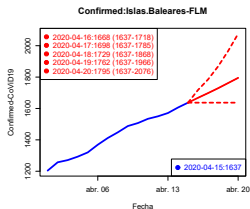


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Islas Baleares

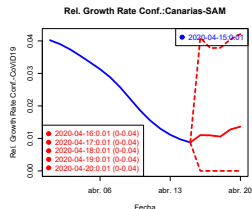
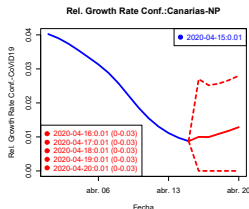
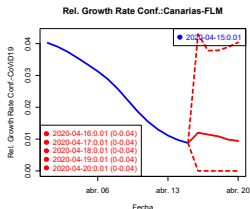
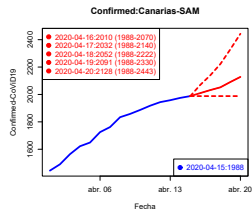
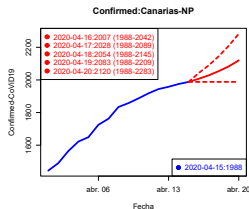
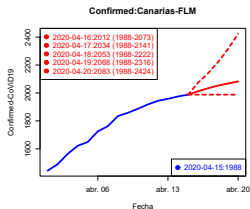


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

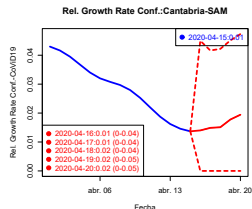
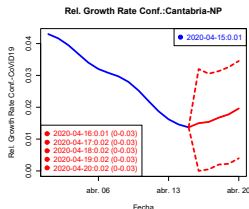
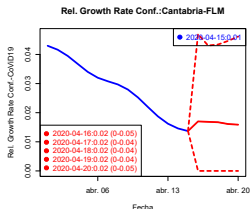
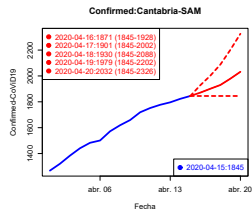
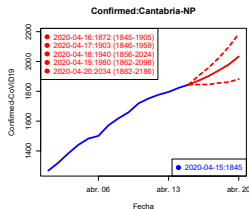
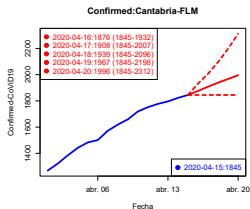


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Cantabria

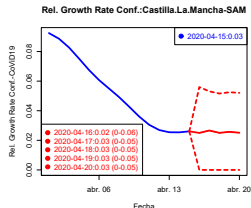
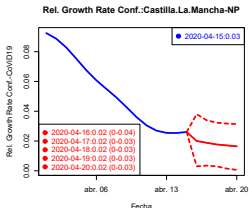
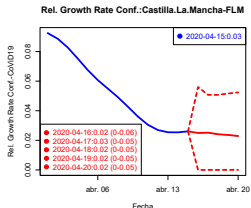
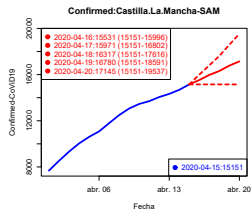
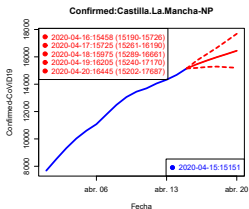
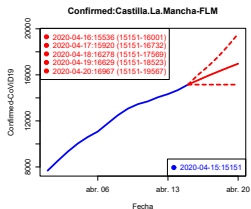


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla-La Mancha

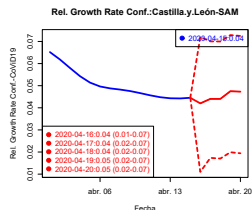
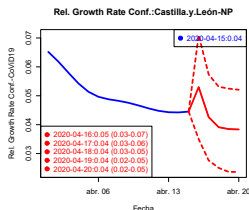
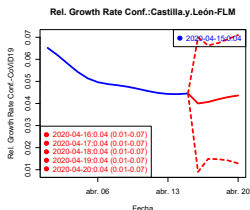
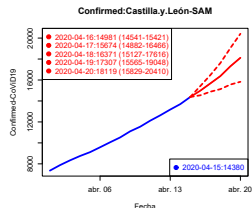
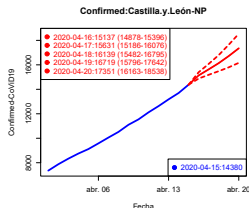
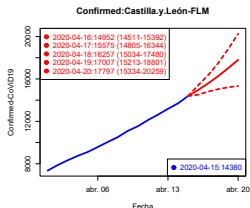


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

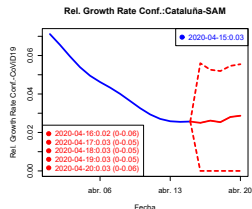
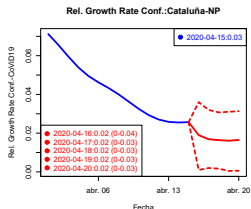
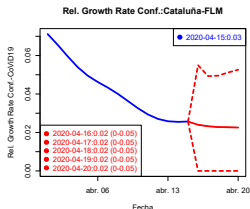
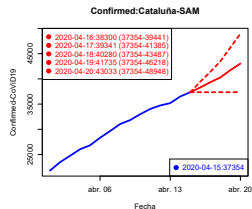
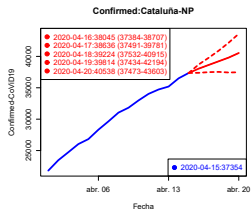
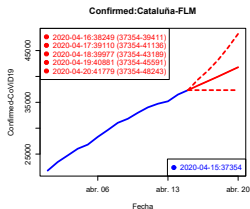


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña

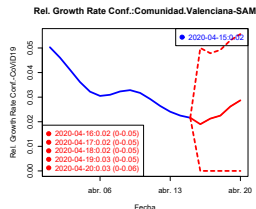
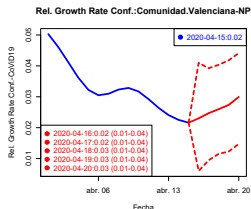
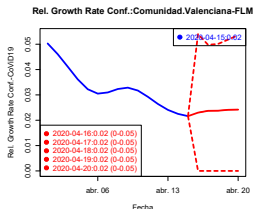
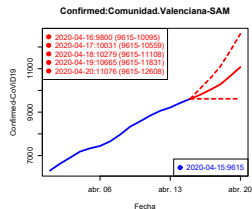
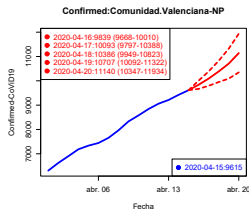
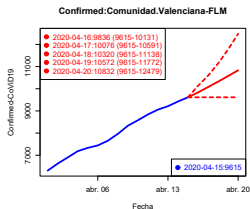


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: C. Valenciana

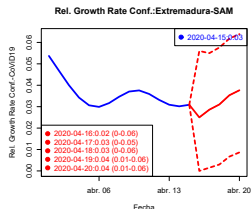
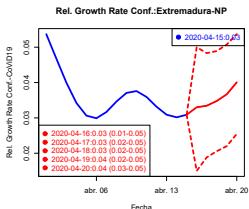
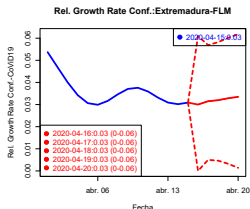
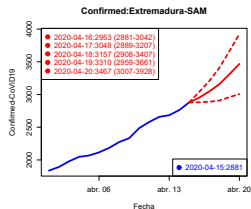
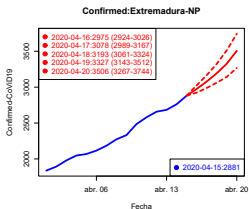
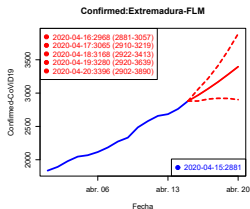


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura



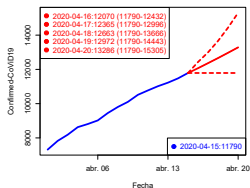
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

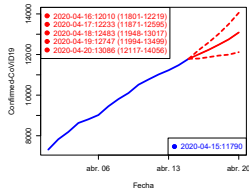
◀ Fallecidos

Confirmados: País Vasco

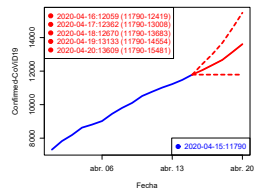
Confirmed:País.Vasco-FLM



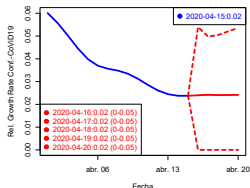
Confirmed:País.Vasco-NP



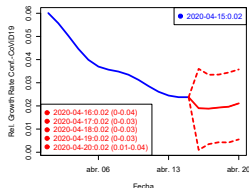
Confirmed:País.Vasco-SAM



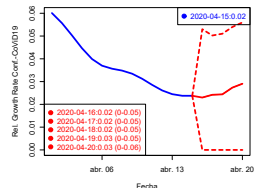
Rel. Growth Rate Conf.:País.Vasco-FLM



Rel. Growth Rate Conf.:País.Vasco-NP



Rel. Growth Rate Conf.:País.Vasco-SAM

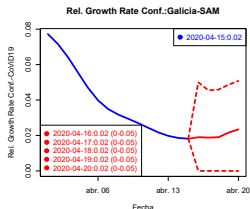
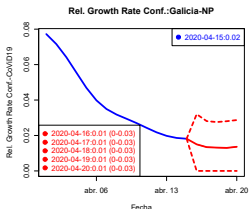
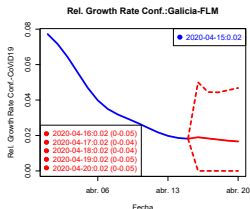
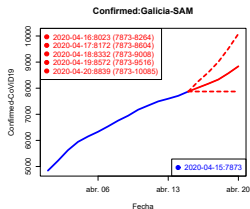
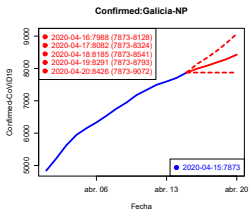
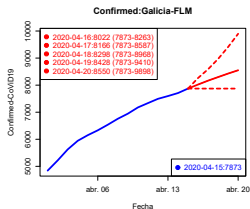


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Galicia

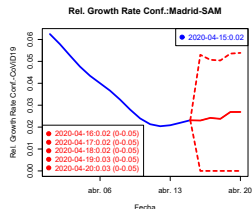
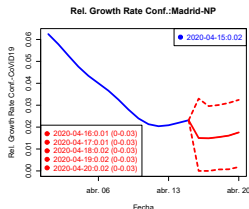
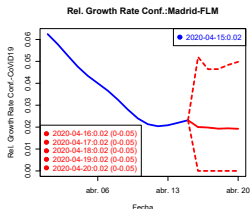
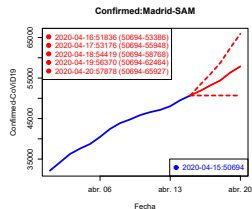
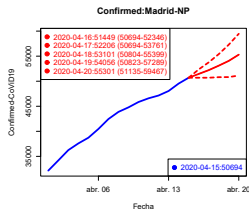
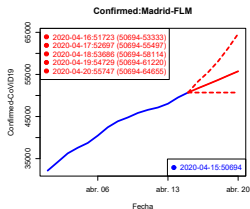


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

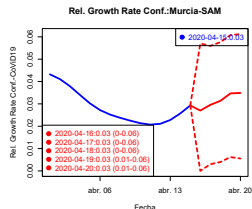
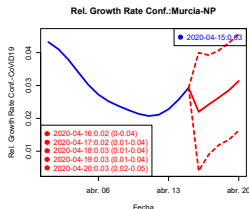
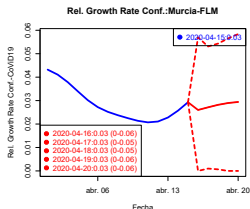
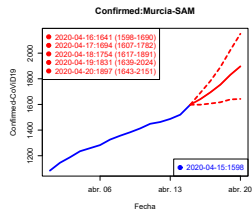
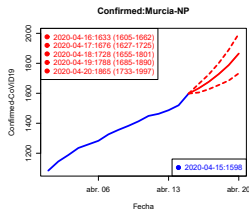
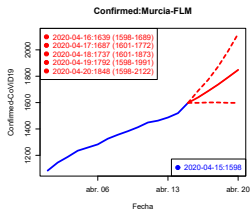


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

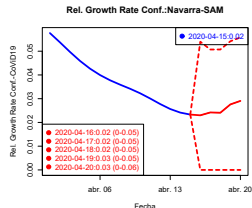
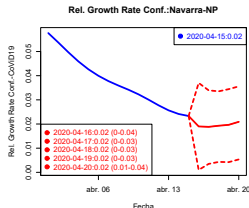
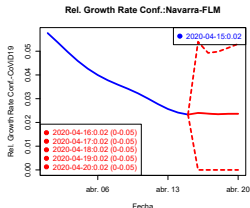
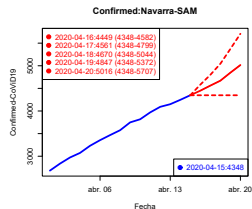
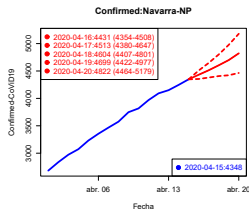
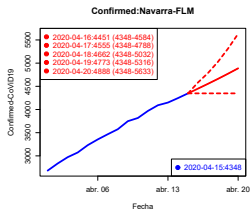


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

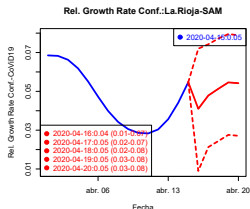
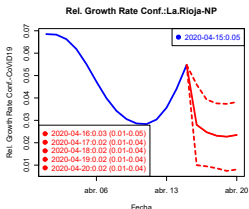
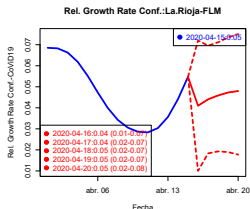
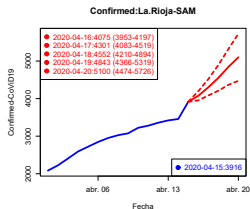
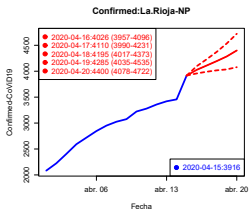
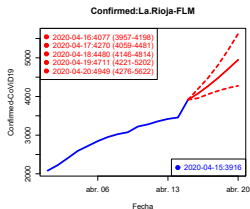
◀ Fallecidos

Confirmados: Navarra



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

Table of Contents

- 1 Casos Confirmados
 - Predicciones

- 2 Fallecidos
 - Predicciones Fallecidos

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 4846

Países/Regiones distintos incorporados: 88

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	0.004	0.003	0.004	0.003	0.003	0.003	0.461	0.634	0.505
H2	0.014	0.008	0.01	0.008	0.005	0.008	0.546	0.771	0.671
H3	0.03	0.014	0.02	0.018	0.011	0.016	0.614	0.827	0.743
H4	0.057	0.026	0.036	0.038	0.016	0.032	0.645	0.845	0.777
H5	0.121	0.05	0.073	0.066	0.025	0.049	0.622	0.852	0.768

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	19130	19573	19944	20171	20271	20251
Andalucía	912	946	976	998	1013	1025
Aragón	543	565	585	600	611	621
Asturias	168	176	184	192	200	210
Islas.Baleares	131	137	141	143	145	146
Canarias	107	108	109	110	110	108
Cantabria	137	142	147	153	158	164
Castilla.La.Mancha	1796	1854	1906	1949	1986	2019
Castilla.y.León	1372	1403	1429	1443	1445	1435
Cataluña	3855	3934	3994	4017	4008	3964
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	972	997	1016	1026	1027	1017
Extremadura	359	368	376	380	381	380
Galicia	310	320	327	330	329	325
Madrid	6877	6988	7077	7113	7105	7052
Melilla	2	2	2	2	2	2
Murcia	111	113	115	117	116	115
Navarra	261	266	270	272	272	270
País.Vasco	956	990	1022	1051	1076	1100
La.Rioja	257	266	274	282	287	292

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	19130	19702	20276	20840	21393	21923
Andalucía	912	951	990	1028	1066	1101
Aragón	543	567	592	615	639	661
Asturias	168	175	181	188	194	201
Islas.Baleares	131	136	141	146	151	156
Canarias	107	109	111	114	116	118
Cantabria	137	142	147	152	157	162
Castilla.La.Mancha	1796	1857	1917	1977	2036	2092
Castilla.y.León	1372	1418	1464	1509	1555	1598
Cataluña	3855	3967	4079	4189	4298	4401
Ceuta	4	4	4	5	5	5
Comunidad.Valenciana	972	1006	1039	1072	1106	1137
Extremadura	359	371	383	394	406	417
Galicia	310	323	336	348	361	373
Madrid	6877	7034	7191	7343	7488	7628
Melilla	2	2	2	2	2	2
Murcia	111	116	121	125	130	134
Navarra	261	268	276	283	290	297
País.Vasco	956	992	1027	1062	1096	1129
La.Rioja	257	268	278	288	299	308

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	19130	19755	20424	21095	21577	22438
Andalucía	912	944	979	1015	1046	1065
Aragón	543	566	591	613	639	661
Asturias	168	176	184	194	202	211
Islas.Baleares	131	139	151	165	181	198
Canarias	107	110	113	118	123	130
Cantabria	137	142	148	153	158	165
Castilla.La.Mancha	1796	1874	1950	2015	2057	2151
Castilla.y.León	1372	1410	1456	1500	1530	1580
Cataluña	3855	3987	4125	4334	4513	4754
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	972	1003	1034	1079	1131	1172
Extremadura	359	371	383	398	412	427
Galicia	310	320	329	340	354	361
Madrid	6877	7064	7265	7475	7569	7865
Melilla	2	2	2	3	3	3
Murcia	111	113	114	116	121	119
Navarra	261	268	276	286	294	305
País.Vasco	956	995	1037	1072	1103	1144
La.Rioja	257	266	278	289	299	309

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.031	0.023	0.043	0.054	0.060	0.059
Andalucía	0.041	0.037	0.070	0.094	0.110	0.124
Aragón	0.051	0.041	0.076	0.104	0.126	0.143
Asturias	0.045	0.048	0.095	0.142	0.192	0.248
Islas.Baleares	0.045	0.042	0.073	0.093	0.106	0.111
Canarias	0.029	0.012	0.022	0.026	0.024	0.011
Cantabria	0.056	0.035	0.074	0.114	0.154	0.193
Castilla.La.Mancha	0.034	0.032	0.061	0.085	0.106	0.124
Castilla.y.León	0.029	0.023	0.042	0.052	0.053	0.046
Cataluña	0.028	0.021	0.036	0.042	0.040	0.028
Ceuta	0.000	0.000	0.000	0.000	0.000	0.000
Comunidad.Valenciana	0.036	0.026	0.046	0.056	0.056	0.046
Extremadura	0.037	0.025	0.046	0.058	0.062	0.058
Galicia	0.033	0.031	0.054	0.063	0.060	0.047
Madrid	0.023	0.016	0.029	0.034	0.033	0.025
Melilla	0.000	0.000	0.000	0.000	0.000	0.000
Murcia	0.031	0.019	0.038	0.049	0.048	0.033
Navarra	0.029	0.018	0.033	0.042	0.043	0.035
País.Vasco	0.048	0.035	0.069	0.099	0.125	0.150
La.Rioja	0.045	0.035	0.068	0.095	0.118	0.136

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	0.031	0.030	0.060	0.089	0.118	0.146
Andalucía	0.041	0.043	0.085	0.127	0.168	0.207
Aragón	0.051	0.045	0.089	0.133	0.177	0.217
Asturias	0.045	0.040	0.079	0.118	0.156	0.193
Islas.Baleares	0.045	0.038	0.076	0.113	0.151	0.186
Canarias	0.029	0.021	0.041	0.061	0.080	0.098
Cantabria	0.056	0.037	0.073	0.109	0.145	0.179
Castilla.La.Mancha	0.034	0.034	0.067	0.101	0.133	0.165
Castilla.y.León	0.029	0.034	0.067	0.100	0.133	0.165
Cataluña	0.028	0.029	0.058	0.087	0.115	0.142
Ceuta	0.000	0.042	0.081	0.121	0.163	0.204
Comunidad.Valenciana	0.036	0.035	0.069	0.103	0.138	0.170
Extremadura	0.037	0.033	0.066	0.098	0.130	0.161
Galicia	0.033	0.042	0.083	0.123	0.164	0.202
Madrid	0.023	0.023	0.046	0.068	0.089	0.109
Melilla	0.000	0.019	0.038	0.057	0.075	0.091
Murcia	0.031	0.043	0.085	0.127	0.168	0.207
Navarra	0.029	0.028	0.056	0.084	0.111	0.137
País.Vasco	0.048	0.037	0.074	0.110	0.146	0.181
La.Rioja	0.045	0.041	0.082	0.121	0.161	0.198

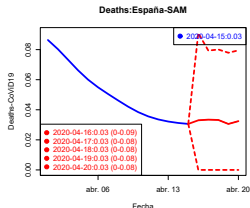
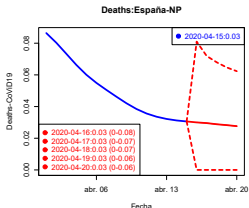
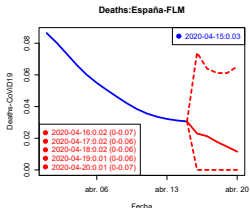
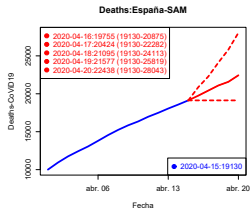
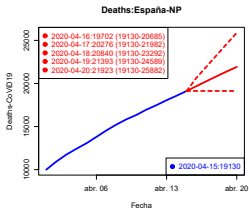
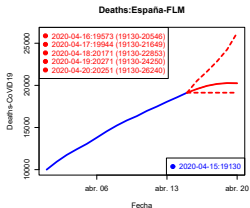
Table: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.031	0.033	0.068	0.103	0.128	0.173
Andalucía	0.041	0.035	0.073	0.112	0.147	0.168
Aragón	0.051	0.042	0.088	0.129	0.177	0.217
Asturias	0.045	0.048	0.096	0.155	0.200	0.252
Islas.Baleares	0.045	0.063	0.152	0.255	0.382	0.511
Canarias	0.029	0.026	0.057	0.105	0.150	0.210
Cantabria	0.056	0.039	0.082	0.118	0.156	0.200
Castilla.La.Mancha	0.034	0.043	0.086	0.122	0.145	0.197
Castilla.y.León	0.029	0.027	0.061	0.093	0.115	0.151
Cataluña	0.028	0.034	0.070	0.124	0.171	0.233
Ceuta	0.000	0.000	0.000	0.000	0.000	0.000
Comunidad.Valenciana	0.036	0.032	0.063	0.110	0.163	0.206
Extremadura	0.037	0.032	0.068	0.107	0.146	0.188
Galicia	0.033	0.031	0.061	0.098	0.141	0.165
Madrid	0.023	0.027	0.056	0.087	0.101	0.144
Melilla	0.000	0.035	0.160	0.239	0.313	0.469
Murcia	0.031	0.015	0.028	0.047	0.087	0.075
Navarra	0.029	0.028	0.058	0.095	0.124	0.169
País.Vasco	0.048	0.040	0.085	0.121	0.153	0.196
La.Rioja	0.045	0.037	0.082	0.122	0.161	0.202

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

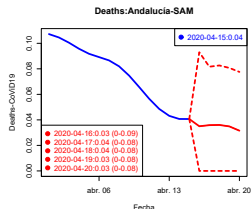
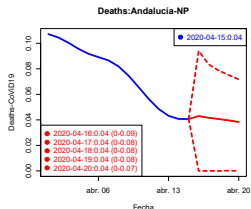
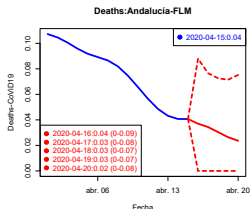
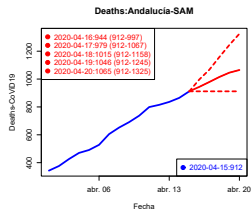
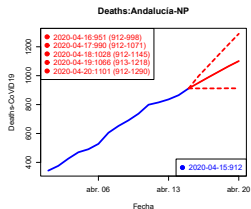
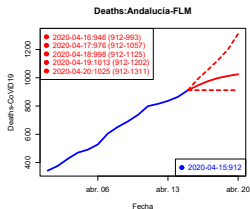
Fallecidos: España



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

◀ Confirmados

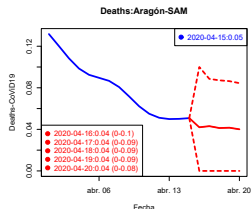
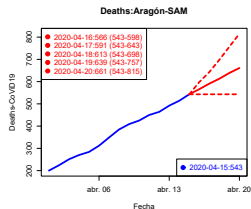
◀ Fallecidos



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

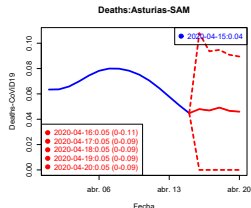
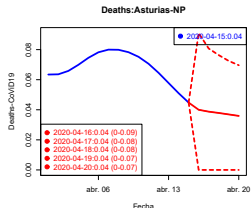
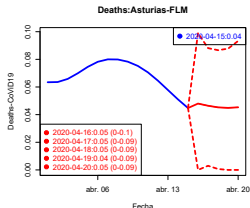
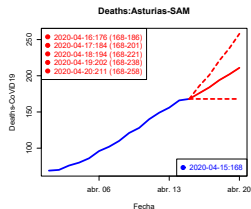
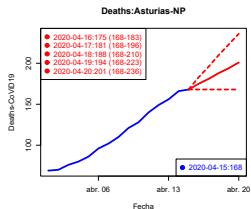
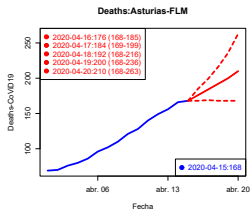
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

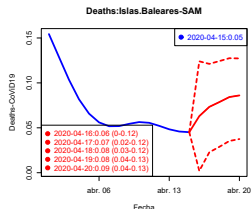
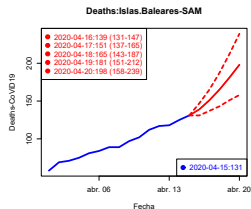
Fallecidos: Asturias



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

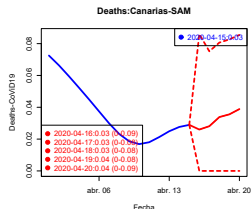
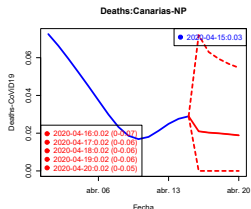
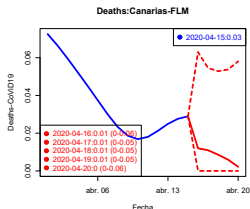
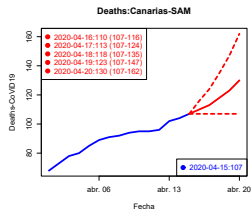
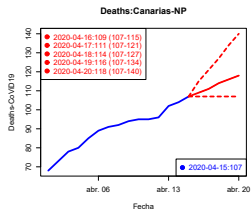
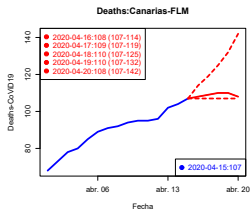
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Canarias



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

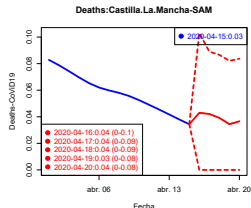
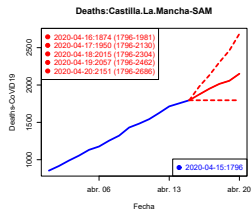
◀ Confirmados

◀ Fallecidos

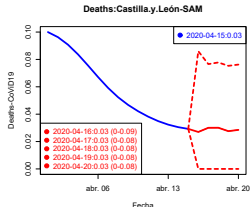
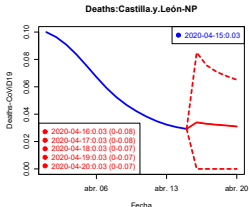
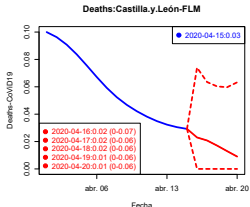
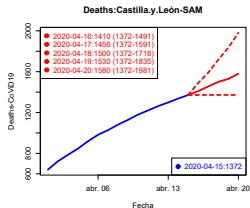
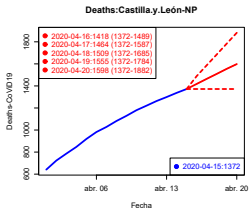
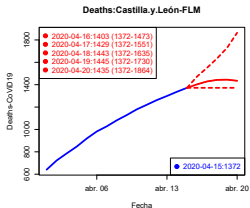
◀ Confirmados ▶ Fallecidos

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

◀ Fallecidos



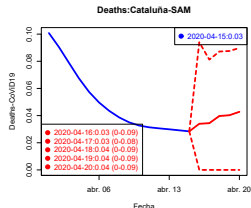
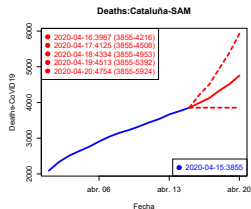
Fallecidos: Castilla y León



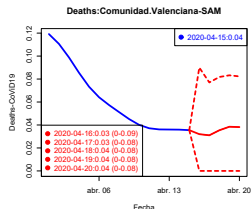
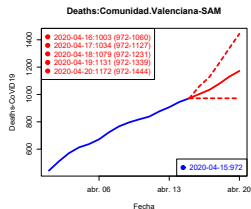
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

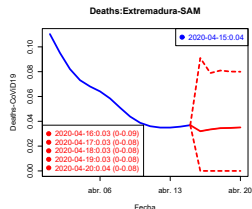
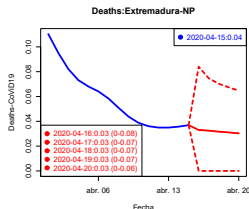
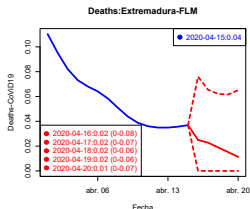
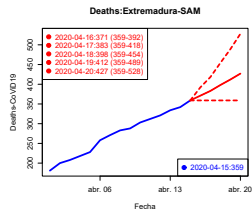
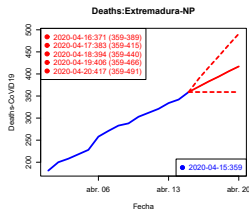
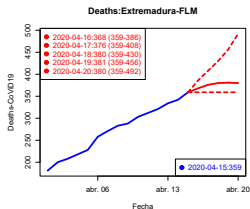


◀ Confirmados ◀ Fallecidos



◀ Confirmados ◀ Fallecidos

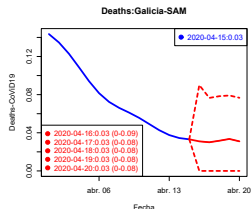
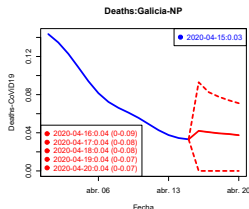
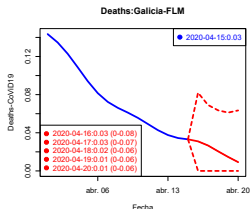
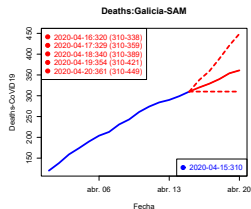
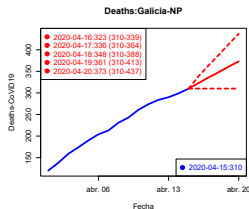
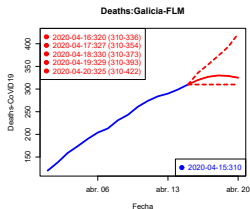
Fallecidos: Extremadura



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

◀ Confirmados

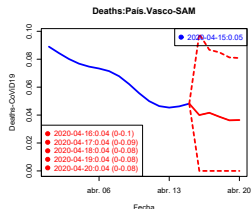
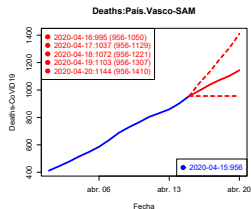
◀ Fallecidos



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

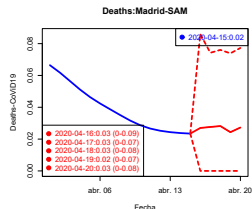
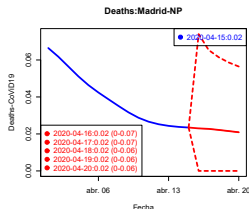
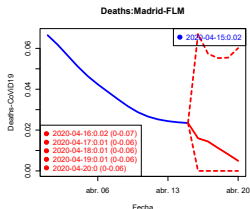
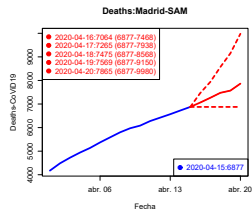
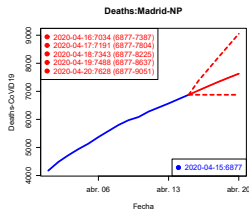
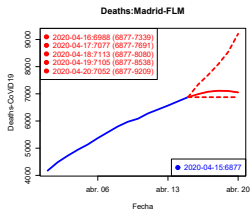
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

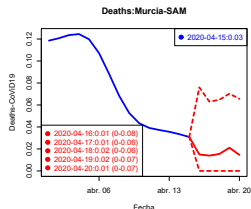
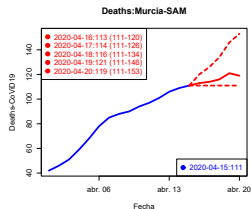
Fallecidos: Madrid



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

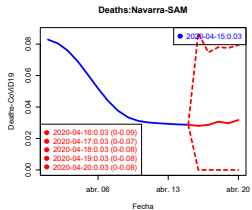
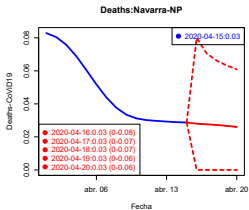
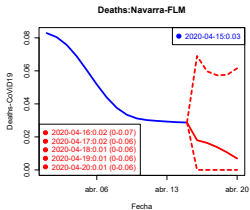
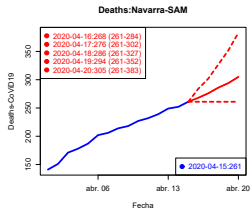
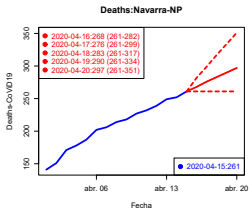
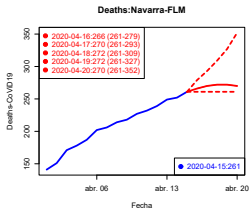
◀ Confirmados

◀ Fallecidos



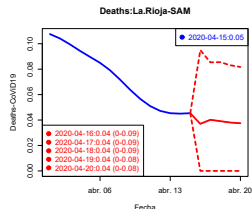
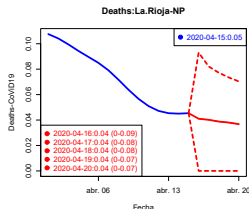
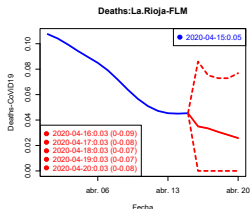
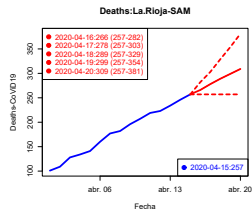
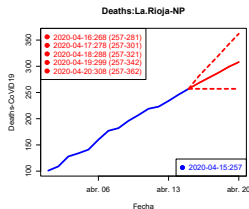
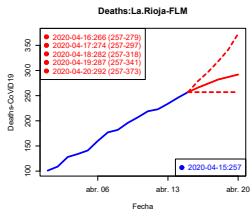
◀ Confirmados ◀ Fallecidos

Fallecidos: Navarra



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

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.