

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

Datos

Número de datos funcionales: 4151

Países/Regiones distintos incorporados: 166

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	0.004	0.001	0.004	0.003	0.001	0.003	0.438	0.879	0.45
H2	0.011	0.003	0.011	0.009	0.002	0.008	0.58	0.908	0.599
H3	0.024	0.006	0.022	0.022	0.005	0.021	0.627	0.921	0.646
H4	0.049	0.013	0.046	0.043	0.01	0.041	0.623	0.92	0.645
H5	0.092	0.024	0.085	0.083	0.016	0.081	0.613	0.919	0.639

Último dato: 2020-04-20 21:00 que se publica 2020-04-21 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	204178	206151	208532	210491	212210	213707
Andalucía	11447	11610	11782	11956	12127	12304
Aragón	4938	5021	5109	5197	5282	5369
Asturias	2365	2409	2456	2505	2552	2603
Islas.Baleares	1808	1840	1872	1907	1944	1983
Canarias	2085	2107	2128	2147	2166	2184
Cantabria	2123	2173	2225	2283	2348	2418
Castilla.La.Mancha	17045	17366	17697	18027	18354	18684
Castilla.y.León	16259	16650	17063	17483	17899	18330
Cataluña	43112	44143	45263	46446	47716	49039
Ceuta	111	113	115	118	120	123
Comunidad.Valenciana	10084	10202	10328	10441	10538	10634
Extremadura	3196	3253	3310	3369	3426	3487
Galicia	8468	8599	8740	8881	9022	9167
Madrid	57997	59253	60655	62120	63689	65314
Melilla	105	106	106	107	107	107
Murcia	1681	1705	1732	1757	1781	1804
Navarra	4781	4869	4961	5055	5151	5251
País.Vasco	12810	13010	13216	13421	13619	13821
La.Rioja	3763	3814	3860	3905	3950	3995

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

Tabla Previsión Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	204178	208453	213401	218273	223747	228890
Andalucía	11447	11603	11766	11923	12122	12301
Aragón	4938	5013	5089	5162	5253	5331
Asturias	2365	2404	2445	2483	2537	2586
Islas.Baleares	1808	1837	1870	1906	1946	1987
Canarias	2085	2105	2129	2152	2175	2205
Cantabria	2123	2176	2235	2302	2368	2434
Castilla.La.Mancha	17045	17347	17670	18015	18359	18749
Castilla.y.León	16259	16628	17031	17406	17868	18250
Cataluña	43112	44242	45618	47006	48475	49915
Ceuta	111	113	115	117	120	122
Comunidad.Valenciana	10084	10199	10318	10423	10548	10670
Extremadura	3196	3249	3301	3353	3414	3465
Galicia	8468	8598	8745	8881	9046	9205
Madrid	57997	59491	61394	63409	65392	67526
Melilla	105	105	106	106	106	107
Murcia	1681	1700	1719	1736	1764	1790
Navarra	4781	4867	4961	5049	5161	5256
País.Vasco	12810	13001	13198	13385	13606	13801
La.Rioja	3763	3810	3860	3903	3962	4016

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	0.022	0.010	0.021	0.031	0.039	0.047
Andalucía	0.013	0.014	0.029	0.044	0.059	0.075
Aragón	0.014	0.017	0.035	0.052	0.070	0.087
Asturias	0.015	0.019	0.039	0.059	0.079	0.100
Islas.Baleares	0.016	0.018	0.036	0.055	0.075	0.097
Canarias	0.009	0.011	0.021	0.030	0.039	0.047
Cantabria	0.025	0.023	0.048	0.075	0.106	0.139
Castilla.La.Mancha	0.017	0.019	0.038	0.058	0.077	0.096
Castilla.y.León	0.023	0.024	0.049	0.075	0.101	0.127
Cataluña	0.029	0.024	0.050	0.077	0.107	0.137
Ceuta	0.016	0.018	0.037	0.059	0.081	0.106
Comunidad.Valenciana	0.009	0.012	0.024	0.035	0.045	0.055
Extremadura	0.015	0.018	0.036	0.054	0.072	0.091
Galicia	0.015	0.015	0.032	0.049	0.065	0.083
Madrid	0.028	0.022	0.046	0.071	0.098	0.126
Melilla	0.004	0.007	0.011	0.014	0.016	0.016
Murcia	0.011	0.014	0.030	0.045	0.059	0.073
Navarra	0.018	0.018	0.038	0.057	0.077	0.098
País.Vasco	0.014	0.016	0.032	0.048	0.063	0.079
La.Rioja	0.012	0.013	0.026	0.038	0.050	0.062

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	0.022	0.020	0.042	0.067	0.093	0.124
Andalucía	0.013	0.010	0.021	0.033	0.046	0.062
Aragón	0.014	0.017	0.035	0.056	0.078	0.103
Asturias	0.015	0.018	0.038	0.061	0.085	0.114
Islas.Baleares	0.016	0.015	0.031	0.049	0.071	0.095
Canarias	0.009	0.005	0.010	0.015	0.021	0.027
Cantabria	0.025	0.022	0.047	0.077	0.114	0.157
Castilla.La.Mancha	0.017	0.019	0.038	0.059	0.079	0.102
Castilla.y.León	0.023	0.021	0.042	0.063	0.084	0.105
Cataluña	0.029	0.023	0.047	0.074	0.103	0.135
Ceuta	0.016	0.015	0.032	0.051	0.073	0.100
Comunidad.Valenciana	0.009	0.010	0.021	0.034	0.047	0.061
Extremadura	0.015	0.019	0.039	0.062	0.085	0.110
Galicia	0.015	0.011	0.023	0.037	0.052	0.069
Madrid	0.028	0.024	0.052	0.085	0.123	0.169
Melilla	0.004	0.003	0.007	0.010	0.014	0.017
Murcia	0.011	0.010	0.021	0.033	0.045	0.060
Navarra	0.018	0.017	0.035	0.055	0.077	0.102
País.Vasco	0.014	0.015	0.032	0.051	0.070	0.093
La.Rioja	0.012	0.011	0.023	0.037	0.051	0.067

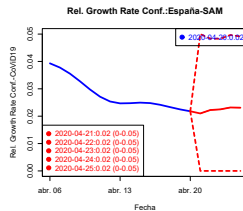
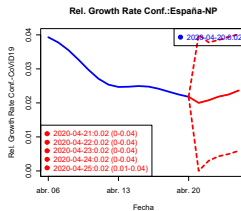
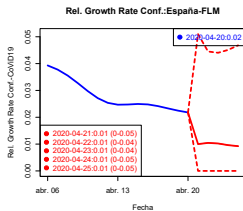
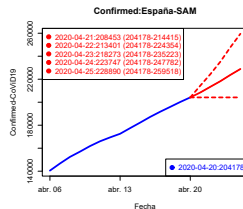
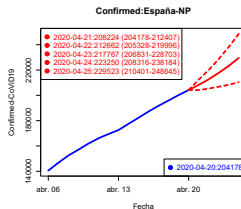
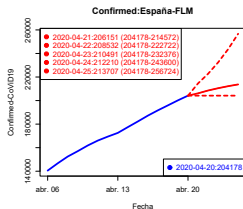
Table: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
- 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.022	0.021	0.045	0.069	0.096	0.121
Andalucía	0.013	0.014	0.028	0.042	0.059	0.075
Aragón	0.014	0.015	0.031	0.045	0.064	0.079
Asturias	0.015	0.016	0.034	0.050	0.073	0.093
Islas.Baleares	0.016	0.016	0.034	0.054	0.076	0.099
Canarias	0.009	0.009	0.021	0.032	0.043	0.058
Cantabria	0.025	0.025	0.053	0.084	0.115	0.147
Castilla.La.Mancha	0.017	0.018	0.037	0.057	0.077	0.100
Castilla.y.León	0.023	0.023	0.047	0.071	0.099	0.122
Cataluña	0.029	0.026	0.058	0.090	0.124	0.158
Ceuta	0.016	0.019	0.036	0.056	0.079	0.098
Comunidad.Valenciana	0.009	0.011	0.023	0.034	0.046	0.058
Extremadura	0.015	0.017	0.033	0.049	0.068	0.084
Galicia	0.015	0.015	0.033	0.049	0.068	0.087
Madrid	0.028	0.026	0.059	0.093	0.127	0.164
Melilla	0.004	0.004	0.008	0.010	0.012	0.017
Murcia	0.011	0.011	0.022	0.033	0.049	0.065
Navarra	0.018	0.018	0.038	0.056	0.080	0.099
País.Vasco	0.014	0.015	0.030	0.045	0.062	0.077
La.Rioja	0.012	0.012	0.026	0.037	0.053	0.067

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

Confirmados: España

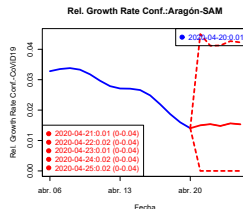
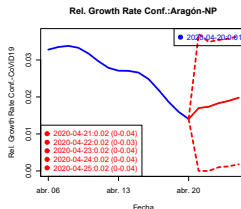
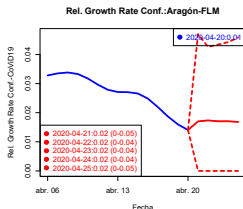
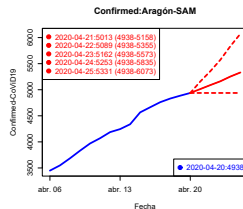
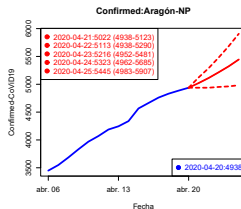
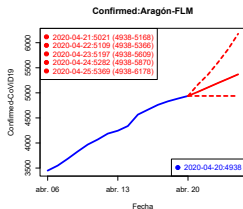


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Aragón

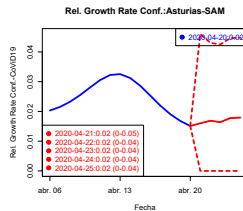
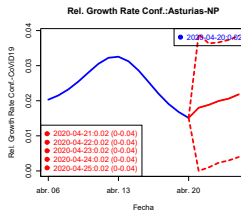
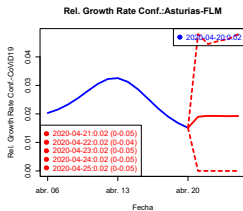
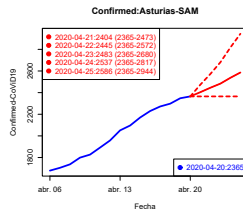
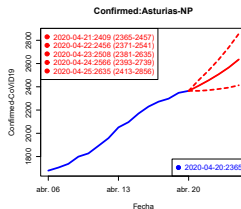
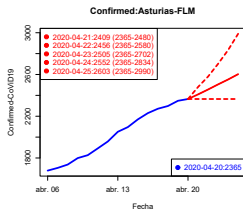


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

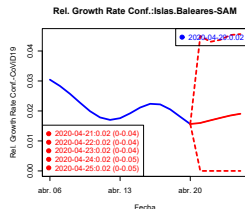
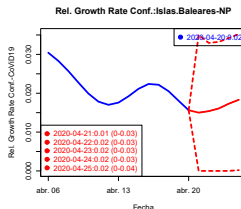
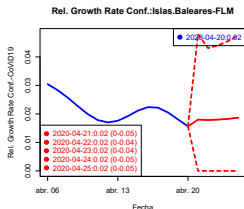
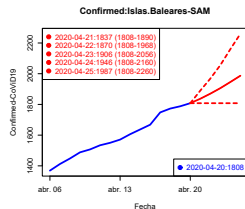
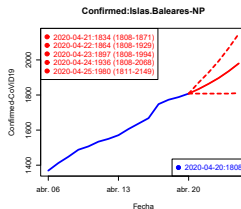
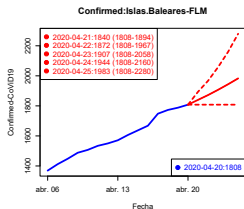


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

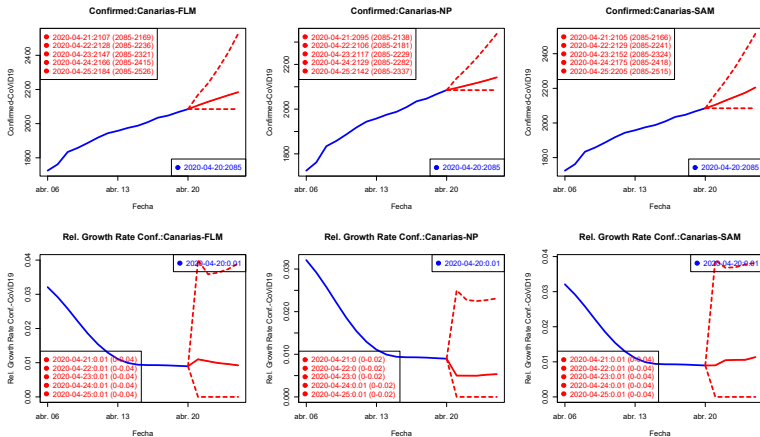


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

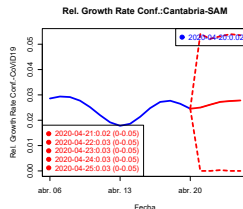
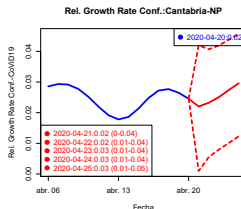
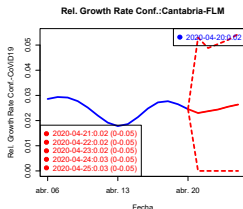
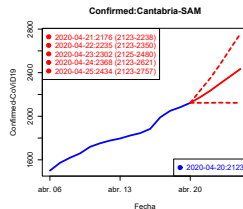
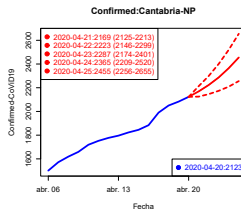
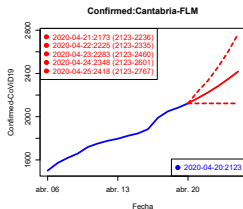


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

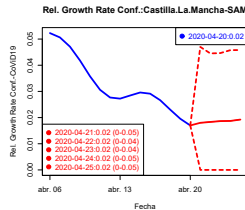
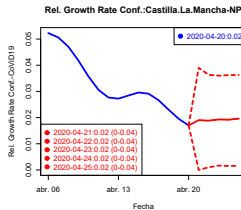
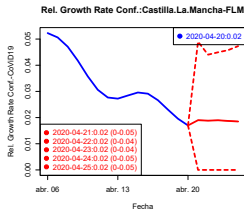
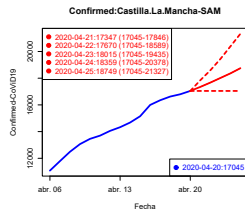
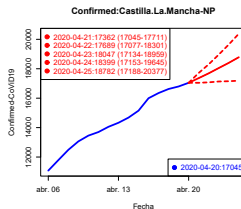
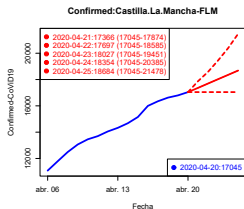


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla-La Mancha

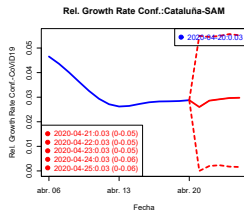
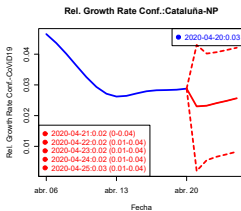
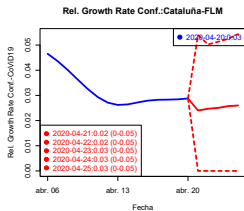
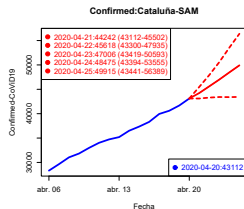
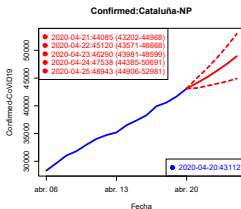
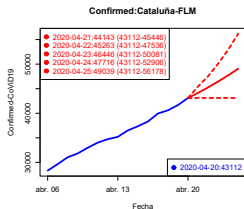


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña



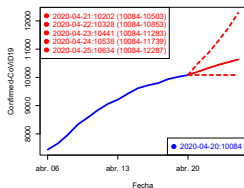
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

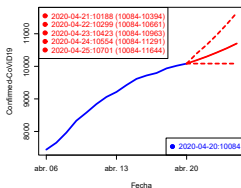
◀ Fallecidos

Confirmados: C. Valenciana

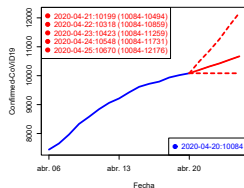
Confirmed:Comunidad.Valenciana-FLM



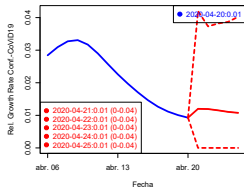
Confirmed:Comunidad.Valenciana-NP



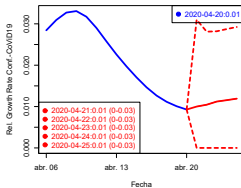
Confirmed:Comunidad.Valenciana-SAM



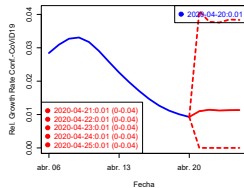
Rel. Growth Rate Conf.:Comunidad.Valenciana-FLM



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



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

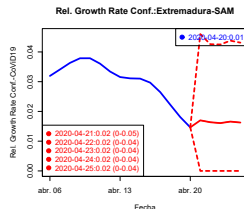
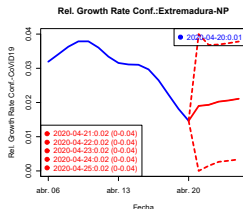
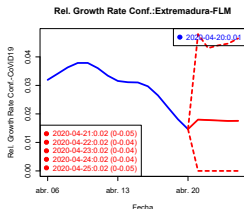
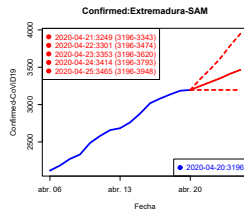
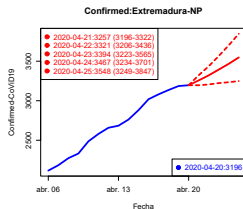
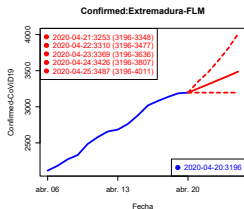


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura



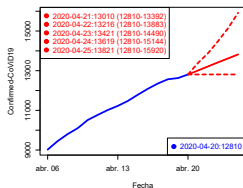
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

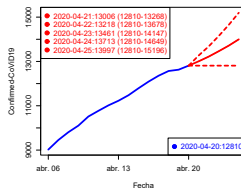
◀ Fallecidos

Confirmados: País Vasco

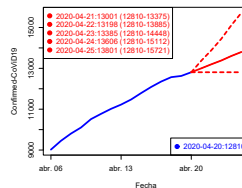
Confirmed:País.Vasco-FLM



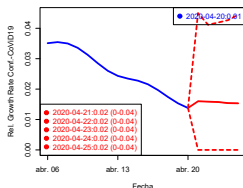
Confirmed:País.Vasco-NP



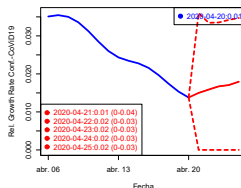
Confirmed:País.Vasco-SAM



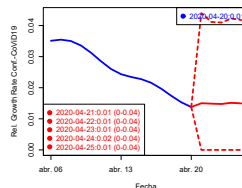
Rel. Growth Rate Conf.:País.Vasco-FLM



Rel. Growth Rate Conf.:País.Vasco-NP



Rel. Growth Rate Conf.:País.Vasco-SAM



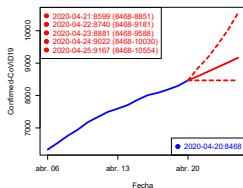
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

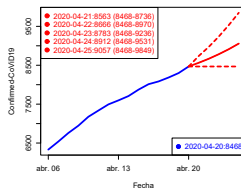
◀ Fallecidos

Confirmados: Galicia

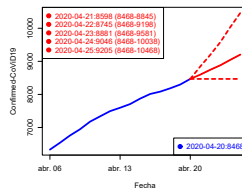
Confirmed:Galicia-FLM



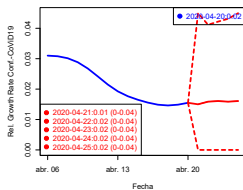
Confirmed:Galicia-NP



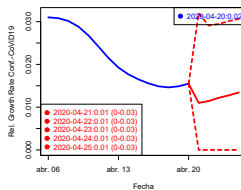
Confirmed:Galicia-SAM



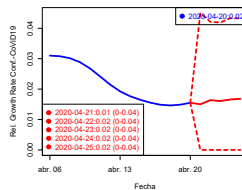
Rel. Growth Rate Conf.:Galicia-FLM



Rel. Growth Rate Conf.:Galicia-NP



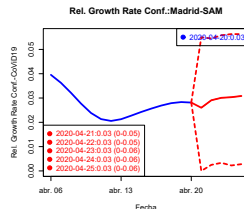
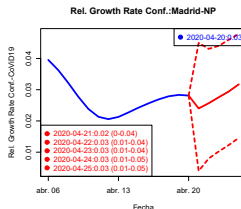
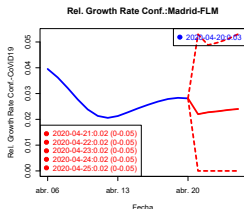
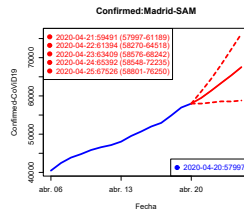
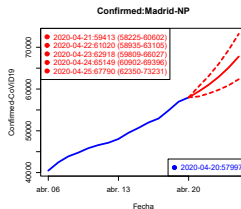
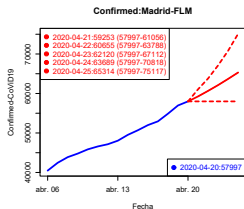
Rel. Growth Rate Conf.:Galicia-SAM



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

[← Confirmados](#)
[← Fallecidos](#)

Confirmados: Madrid

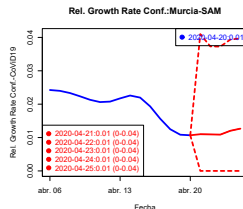
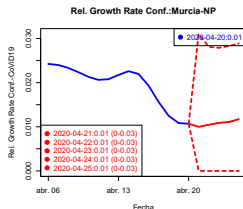
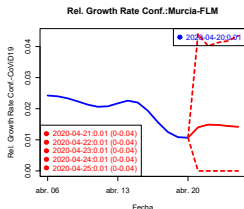
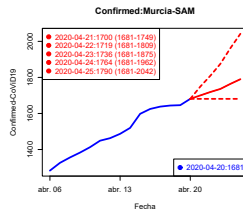
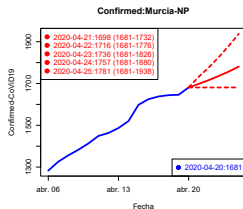
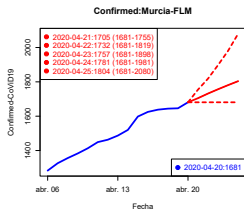


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

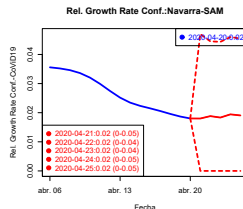
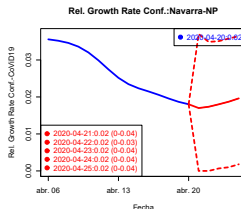
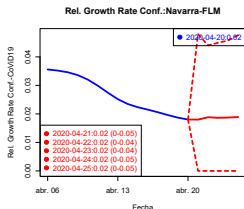
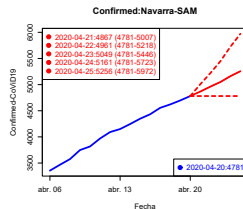
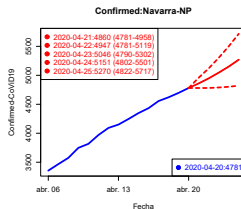
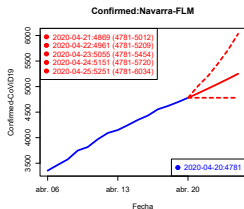


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Navarra



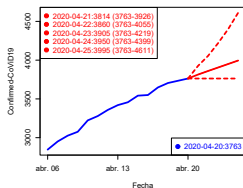
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

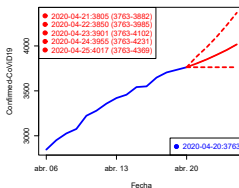
◀ Fallecidos

Confirmados: La Rioja

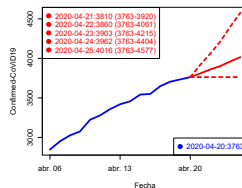
Confirmed:La.Rioja-FLM



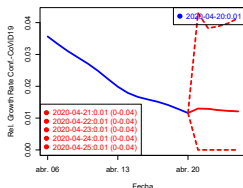
Confirmed:La.Rioja-NP



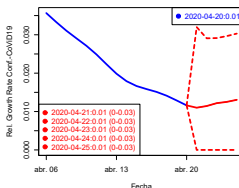
Confirmed:La.Rioja-SAM



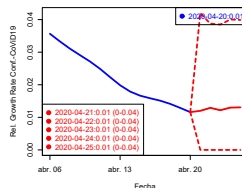
Rel. Growth Rate Conf.:La.Rioja-FLM



Rel. Growth Rate Conf.:La.Rioja-NP



Rel. Growth Rate Conf.:La.Rioja-SAM



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

17/04/2020: La serie online de fallecidos en Cataluña está en revisión.
En este informe se ha usado la serie de datos guardados anterior.

Número de datos funcionales: 5750

Países/Regiones distintos incorporados: 93

Predicciones:

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

	σ_R^2			$\sigma_R^2(rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0.003	0.003	0.003	0.003	0.002	0.003	0.46	0.602	0.487
H2	0.011	0.006	0.009	0.007	0.005	0.007	0.545	0.734	0.605
H3	0.022	0.012	0.018	0.015	0.01	0.016	0.609	0.793	0.68
H4	0.042	0.022	0.032	0.028	0.016	0.028	0.638	0.817	0.72
H5	0.084	0.04	0.061	0.045	0.024	0.048	0.622	0.829	0.722

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	21282	21639	22005	22284	22497	22640
Andalucía	1017	1036	1053	1062	1063	1055
Aragón	643	662	680	694	705	714
Asturias	202	208	213	218	222	225
Islas.Baleares	161	166	172	178	184	191
Canarias	120	122	125	127	128	130
Cantabria	165	170	175	180	185	189
Castilla.La.Mancha	2075	2118	2164	2204	2238	2265
Castilla.y.León	1521	1545	1570	1587	1600	1606
Cataluña	4152	4203	4261	4302	4331	4345
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1089	1110	1129	1143	1153	1158
Extremadura	397	404	411	415	417	417
Galicia	360	368	376	383	388	393
Madrid	7460	7554	7652	7717	7760	7781
Melilla	2	2	2	2	2	2
Murcia	120	122	123	123	122	120
Navarra	397	420	444	472	504	541
País.Vasco	1103	1131	1158	1179	1197	1211
La.Rioja	294	301	307	311	314	315

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	21282	21775	22278	22742	23159	23535
Andalucía	1017	1050	1084	1116	1146	1173
Aragón	643	665	688	709	729	748
Asturias	202	209	216	223	230	236
Islas.Baleares	161	166	171	176	180	184
Canarias	120	122	124	126	128	129
Cantabria	165	170	176	181	186	190
Castilla.La.Mancha	2075	2134	2193	2248	2297	2343
Castilla.y.León	1521	1558	1595	1629	1660	1687
Cataluña	4152	4231	4316	4394	4464	4527
Ceuta	4	4	4	4	4	4
Comunidad.Valenciana	1089	1117	1145	1171	1194	1215
Extremadura	397	407	417	427	436	443
Galicia	360	371	381	391	400	409
Madrid	7460	7591	7737	7869	7989	8097
Melilla	2	2	2	2	2	2
Murcia	120	123	126	129	132	135
Navarra	397	411	424	437	449	460
País.Vasco	1103	1138	1172	1205	1235	1263
La.Rioja	294	303	313	322	330	338

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	21282	21716	22215	22693	22979	23247
Andalucía	1017	1038	1059	1077	1091	1107
Aragón	643	662	682	700	713	727
Asturias	202	207	213	220	224	229
Islas.Baleares	161	166	172	178	182	187
Canarias	120	123	126	129	131	133
Cantabria	165	171	176	181	185	190
Castilla.La.Mancha	2075	2126	2175	2233	2263	2290
Castilla.y.León	1521	1552	1585	1625	1644	1657
Cataluña	4152	4235	4316	4403	4464	4512
Ceuta	4	4	4	4	5	5
Comunidad.Valenciana	1089	1112	1138	1162	1176	1192
Extremadura	397	406	415	424	428	432
Galicia	360	370	378	387	394	401
Madrid	7460	7589	7748	7881	7985	8062
Melilla	2	2	2	2	2	2
Murcia	120	122	124	126	126	126
Navarra	397	426	452	483	512	538
País.Vasco	1103	1131	1162	1191	1210	1232
La.Rioja	294	301	309	315	320	325

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.021	0.017	0.034	0.047	0.057	0.064
Andalucía	0.018	0.019	0.036	0.044	0.045	0.037
Aragón	0.028	0.030	0.057	0.079	0.097	0.110
Asturias	0.029	0.028	0.056	0.080	0.100	0.115
Islas.Baleares	0.035	0.032	0.068	0.105	0.144	0.185
Canarias	0.016	0.019	0.038	0.054	0.070	0.086
Cantabria	0.037	0.032	0.063	0.091	0.118	0.145
Castilla.La.Mancha	0.028	0.021	0.043	0.062	0.078	0.091
Castilla.y.León	0.021	0.016	0.032	0.044	0.052	0.056
Cataluña	0.023	0.012	0.026	0.036	0.043	0.047
Ceuta	0.000	0.001	0.000	0.000	0.000	0.000
Comunidad.Valenciana	0.018	0.019	0.037	0.050	0.058	0.063
Extremadura	0.018	0.019	0.035	0.044	0.049	0.050
Galicia	0.027	0.021	0.044	0.063	0.079	0.090
Madrid	0.016	0.013	0.026	0.034	0.040	0.043
Melilla	0.000	0.000	0.000	0.000	0.000	0.000
Murcia	0.016	0.014	0.024	0.025	0.019	0.004
Navarra	0.051	0.058	0.119	0.189	0.270	0.363
País.Vasco	0.026	0.025	0.049	0.069	0.085	0.098
La.Rioja	0.028	0.023	0.044	0.059	0.068	0.071

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

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

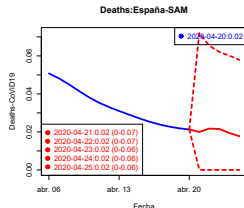
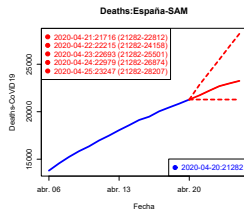
	Last	H1	H2	H3	H4	H5
España	0.021	0.023	0.047	0.069	0.088	0.106
Andalucía	0.018	0.032	0.066	0.097	0.127	0.153
Aragón	0.028	0.034	0.069	0.103	0.134	0.162
Asturias	0.029	0.035	0.071	0.106	0.138	0.167
Islas.Baleares	0.035	0.031	0.062	0.091	0.118	0.142
Canarias	0.016	0.015	0.033	0.049	0.064	0.078
Cantabria	0.037	0.032	0.065	0.096	0.124	0.150
Castilla.La.Mancha	0.028	0.028	0.057	0.083	0.107	0.129
Castilla.y.León	0.021	0.024	0.048	0.071	0.091	0.109
Cataluña	0.023	0.019	0.040	0.058	0.075	0.090
Ceuta	0.000	0.011	0.027	0.042	0.055	0.067
Comunidad.Valenciana	0.018	0.026	0.051	0.075	0.096	0.116
Extremadura	0.018	0.026	0.051	0.075	0.097	0.116
Galicia	0.027	0.029	0.059	0.087	0.112	0.135
Madrid	0.016	0.018	0.037	0.055	0.071	0.085
Melilla	0.000	0.005	0.019	0.032	0.044	0.056
Murcia	0.016	0.026	0.053	0.078	0.100	0.120
Navarra	0.051	0.034	0.068	0.100	0.131	0.159
País.Vasco	0.026	0.031	0.063	0.093	0.120	0.145
La.Rioja	0.028	0.032	0.064	0.095	0.123	0.148

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

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

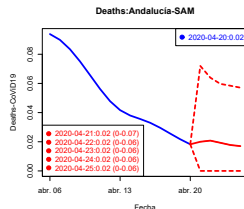
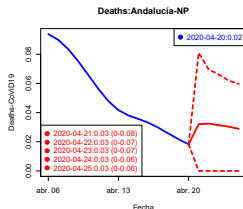
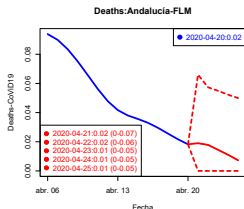
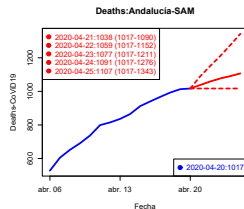
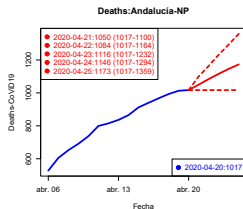
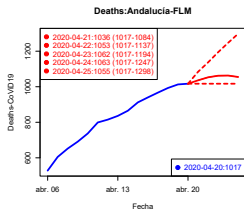
	Last	H1	H2	H3	H4	H5
España	0.021	0.020	0.044	0.066	0.080	0.092
Andalucía	0.018	0.020	0.042	0.059	0.073	0.088
Aragón	0.028	0.029	0.061	0.088	0.108	0.131
Asturias	0.029	0.027	0.056	0.090	0.109	0.131
Islas.Baleares	0.035	0.028	0.065	0.103	0.130	0.163
Canarias	0.016	0.026	0.047	0.070	0.087	0.104
Cantabria	0.037	0.034	0.068	0.095	0.121	0.152
Castilla.La.Mancha	0.028	0.025	0.048	0.076	0.090	0.103
Castilla.y.León	0.021	0.020	0.042	0.068	0.081	0.089
Cataluña	0.023	0.020	0.040	0.060	0.075	0.087
Ceuta	0.000	0.016	0.054	0.079	0.102	0.104
Comunidad.Valenciana	0.018	0.021	0.045	0.067	0.080	0.094
Extremadura	0.018	0.022	0.046	0.068	0.078	0.088
Galicia	0.027	0.027	0.049	0.075	0.093	0.115
Madrid	0.016	0.017	0.039	0.056	0.070	0.081
Melilla	0.000	0.003	0.014	0.027	0.043	0.050
Murcia	0.016	0.013	0.033	0.047	0.051	0.053
Navarra	0.051	0.073	0.139	0.217	0.289	0.355
País.Vasco	0.026	0.025	0.054	0.080	0.097	0.117
La.Rioja	0.028	0.024	0.050	0.071	0.087	0.104

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



◀ Confirmados ◀ Fallecidos

Fallecidos: Andalucía



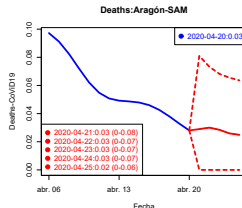
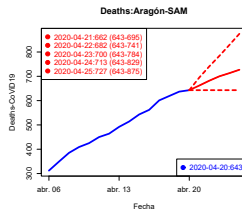
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

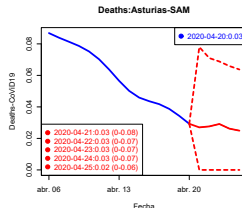
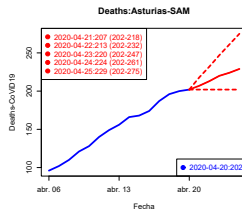
◀ Fallecidos

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

◀ Fallecidos

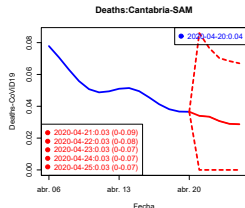
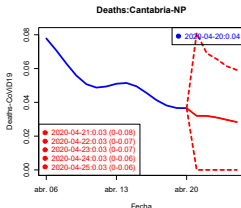
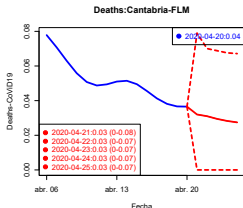
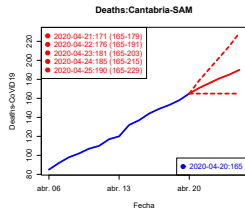
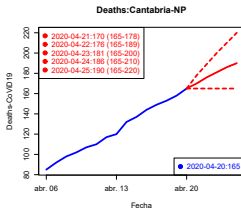
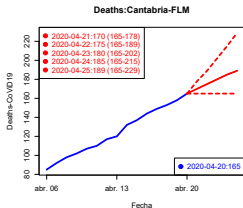


○○



◀ Confirmados

Fallecidos: Cantabria

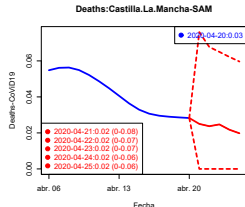
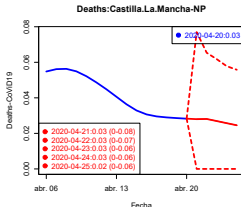
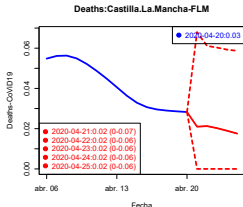
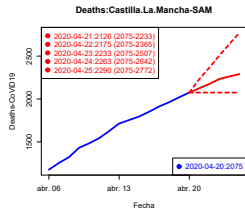
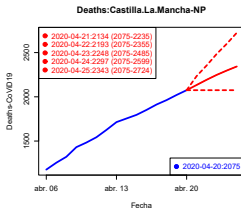
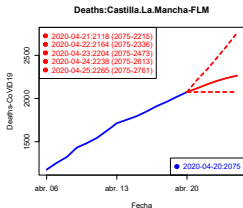


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla-La Mancha

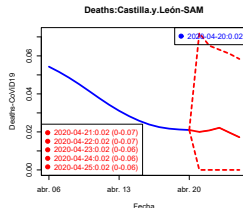
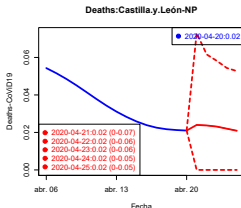
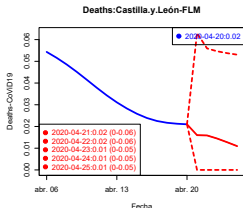
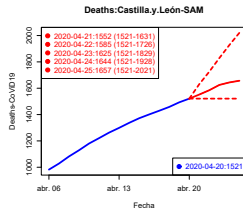
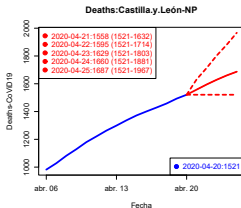
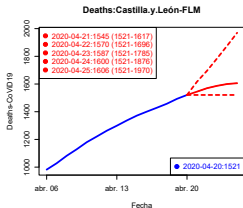


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

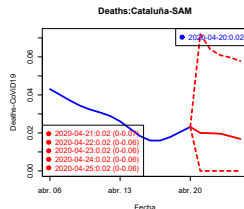
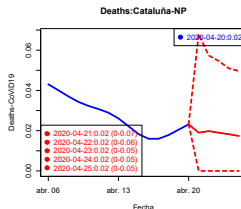
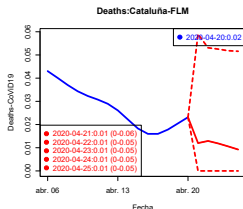
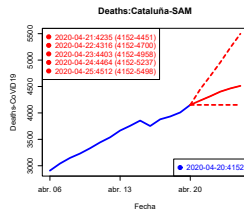
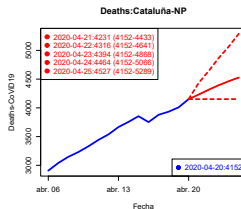
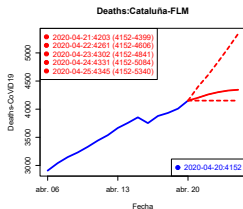


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cataluña

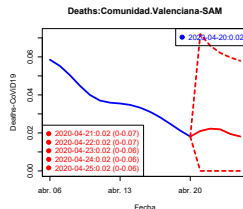
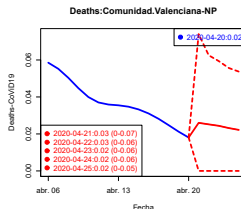
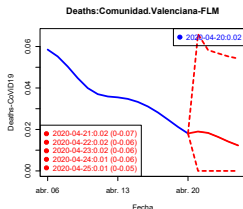
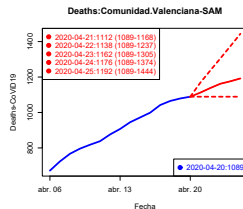
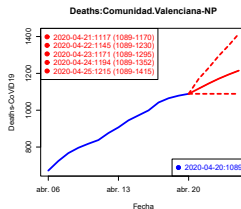
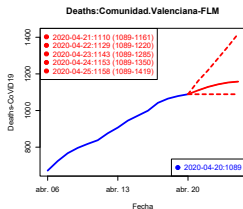


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: C. Valenciana

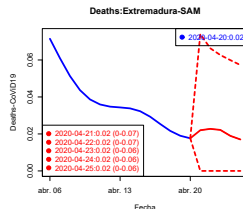
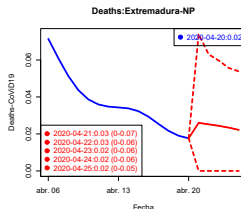
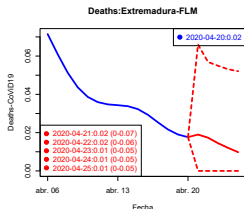
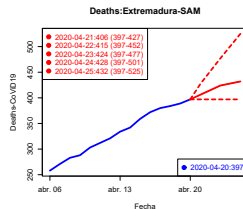
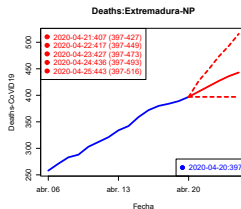
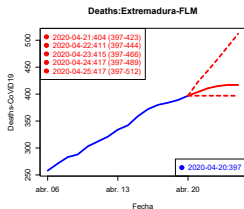


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

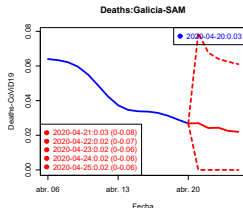
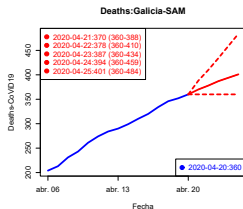
Fallecidos: Extremadura



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

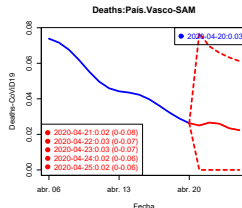
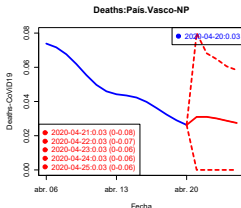
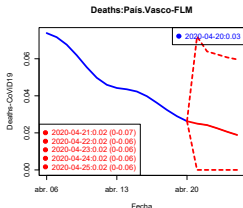
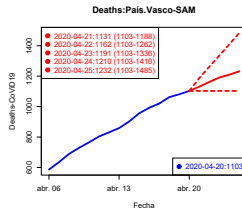
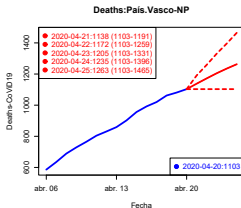
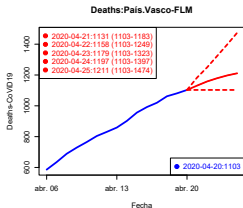
◀ Confirmados

◀ Fallecidos



◀ Confirmados ▶ Fallecidos

Fallecidos: País Vasco

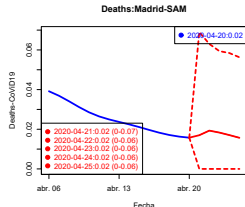
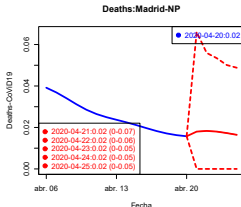
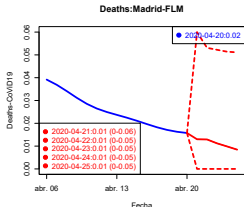
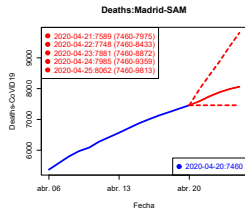
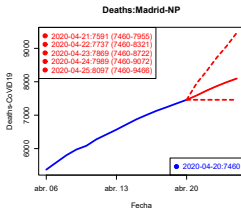
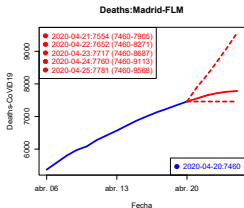


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

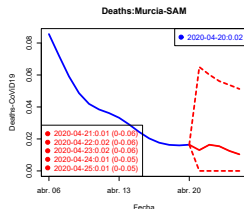
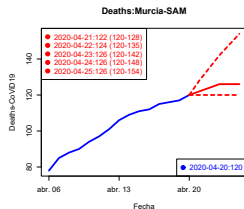
Fallecidos: Madrid



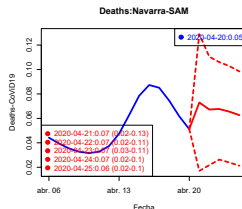
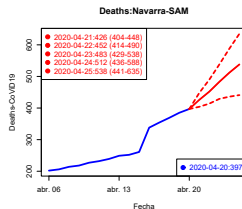
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

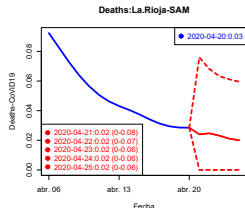
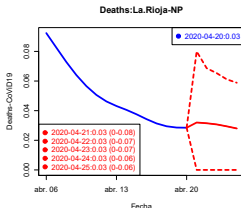
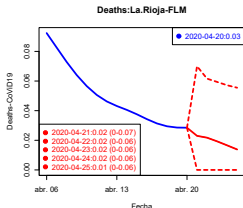
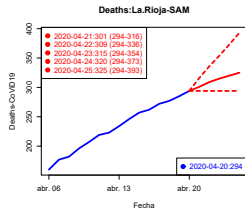
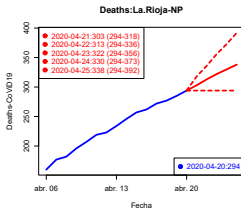
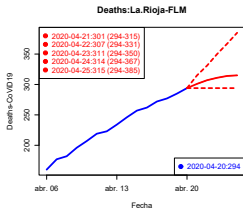


◀ Confirmados ◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: La Rioja



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

◀ Confirmados

◀ Fallecidos

Breve descripción del Modelo de predicción

Objetivo: Predecir ratio de incremento de casos confirmados a 1, 2, o 3 días: $r^{(k)}(t) = \frac{x_{t+k} - x_t}{x_t + 1}$

Información usada: Pasado de esta variable suavizado (retardo 1) durante los últimos 15 días:

$$R^{(1)} = \{r^{(1)}(-14), \dots, r^{(1)}(0)\}.$$

Datos para alimentar el modelo: https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data/csse_covid_19_time_series/. Algunas series de tiempo (como el Diamond Princess) son filtrados por inconsistencia, presunta falta de veracidad o por anormalmente valores bajos. En la predicción final se reconstruye el número de casos esperado. Se construyen tres modelos funcionales de la regresión general: $r^{(k)}(0) = f(R^{(1)}) + \epsilon$ donde la diferencia radica en la forma de la función f

- Lineal: $f(R^{(1)}) = \int_{-14}^0 R^{(1)}(t)\beta(t)dt$
- NP: f es una estimación no paramétrica tipo núcleo.
- SAM: f es una combinación aditiva de funciones suaves de las componentes principales funcionales.

Para el objetivo de predecir el ratio de incremento de fallecidos, se usa además del pasado de la propia variable, el ratio de incremento pasado de casos confirmados.