

Predicciones sobre CoViD-19

Manuel Febrero-Bande

Dpt. de Estadística, Análisis Matemático y Optimización
Univ. de Santiago de Compostela

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

Datos

Número de datos funcionales: 1770

Países/Regiones distintos incorporados: 110

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

Horiz	Medida	FLM	NP	SAM
H1	σ_R^2	0.007	0.004	0.007
H1	$\sigma_R^2(rob.)$	0.004	0.002	0.004
H1	r^2	0.441	0.716	0.466
H2	σ_R^2	0.017	0.009	0.015
H2	$\sigma_R^2(rob.)$	0.016	0.007	0.013
H2	r^2	0.604	0.822	0.641
H3	σ_R^2	0.035	0.018	0.032
H3	$\sigma_R^2(rob.)$	0.039	0.018	0.034
H3	r^2	0.661	0.849	0.695

Último dato: 2020-04-04 21:00 que se publica 2020-04-05 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	130759	136916	140492	142695	143148	143384
Andalucía	8301	8787	9342	9897	10463	11073
Aragón	3232	3433	3616	3788	3963	4152
Asturias	1605	1679	1761	1849	1942	2042
Islas.Baleares	1293	1332	1348	1350	1347	1335
Canarias	1622	1686	1742	1792	1839	1889
Cantabria	1441	1486	1509	1521	1526	1523
Castilla.La.Mancha	10031	10819	11584	12404	13309	14262
Castilla.y.León	8749	9223	9656	10084	10520	10987
Cataluña	26032	27301	28685	29989	31220	32432
Ceuta	83	96	112	130	149	172
Comunidad.Valenciana	7184	7517	7833	8113	8378	8665
Extremadura	2047	2103	2144	2178	2199	2220
Galicia	5944	6365	6762	7137	7532	7939
Madrid	37584	39467	41379	43274	45102	47249
Melilla	83	89	96	104	114	124
Murcia	1235	1277	1307	1334	1356	1380
Navarra	3073	3216	3344	3470	3600	3744
País.Vasco	8628	9035	9374	9720	10084	10460
La.Rioja	2592	2756	2913	3089	3285	3496

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

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	130759	137246	143735	150365	158157	166187
Andalucía	8301	8763	9242	9728	10251	10791
Aragón	3232	3478	3732	3982	4205	4428
Asturias	1605	1658	1711	1766	1829	1896
Islas.Baleares	1293	1333	1364	1393	1429	1455
Canarias	1622	1688	1737	1784	1871	1943
Cantabria	1441	1506	1558	1596	1636	1668
Castilla.La.Mancha	10031	10792	11622	12450	13245	14079
Castilla.y.León	8749	9222	9711	10199	10743	11317
Cataluña	26032	27569	29011	30452	32046	33486
Ceuta	83	92	106	118	131	145
Comunidad.Valenciana	7184	7506	7808	8091	8467	8850
Extremadura	2047	2147	2227	2293	2373	2439
Galicia	5944	6408	6895	7345	7777	8233
Madrid	37584	39429	41344	43235	45158	47449
Melilla	83	88	94	100	106	112
Murcia	1235	1289	1327	1364	1440	1499
Navarra	3073	3204	3323	3434	3589	3748
País.Vasco	8628	9004	9328	9659	10158	10622
La.Rioja	2592	2726	2868	3003	3147	3328

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

Tabla Previsión Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	130759	137224	143277	149910	158444	167182
Andalucía	8301	8789	9311	9839	10447	11146
Aragón	3232	3402	3631	3892	4194	4425
Asturias	1605	1680	1749	1797	1857	1953
Islas.Baleares	1293	1327	1341	1370	1416	1432
Canarias	1622	1673	1705	1750	1817	1870
Cantabria	1441	1488	1522	1570	1655	1744
Castilla.La.Mancha	10031	10817	11723	12517	13544	14621
Castilla.y.León	8749	9160	9554	10038	10646	11127
Cataluña	26032	27399	28982	30819	31742	32571
Ceuta	83	98	116	136	159	183
Comunidad.Valenciana	7184	7453	7733	8067	8530	8963
Extremadura	2047	2104	2169	2261	2463	2751
Galicia	5944	6354	6827	7293	7816	8212
Madrid	37584	39389	41206	42586	44992	48184
Melilla	83	88	96	102	110	119
Murcia	1235	1274	1287	1315	1373	1418
Navarra	3073	3195	3293	3372	3535	3713
País.Vasco	8628	8994	9212	9466	9858	10167
La.Rioja	2592	2729	2909	3041	3214	3455

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	0.062	0.047	0.074	0.091	0.095	0.097
Andalucía	0.066	0.058	0.125	0.192	0.260	0.334
Aragón	0.066	0.062	0.119	0.172	0.226	0.285
Asturias	0.053	0.046	0.097	0.152	0.210	0.272
Islas.Baleares	0.029	0.030	0.043	0.044	0.042	0.033
Canarias	0.044	0.039	0.074	0.105	0.134	0.165
Cantabria	0.044	0.031	0.047	0.056	0.059	0.057
Castilla.La.Mancha	0.091	0.079	0.155	0.236	0.327	0.422
Castilla.y.León	0.062	0.054	0.104	0.153	0.202	0.256
Cataluña	0.064	0.049	0.102	0.152	0.199	0.246
Ceuta	0.158	0.159	0.349	0.557	0.783	1.054
Comunidad.Valenciana	0.048	0.046	0.090	0.129	0.166	0.206
Extremadura	0.044	0.027	0.047	0.064	0.074	0.085
Galicia	0.074	0.071	0.138	0.201	0.267	0.336
Madrid	0.058	0.050	0.101	0.151	0.200	0.257
Melilla	0.087	0.067	0.152	0.253	0.367	0.492
Murcia	0.044	0.034	0.059	0.080	0.098	0.117
Navarra	0.050	0.046	0.088	0.129	0.172	0.218
País.Vasco	0.058	0.047	0.086	0.127	0.169	0.212
La.Rioja	0.075	0.063	0.124	0.192	0.267	0.349

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	0.062	0.050	0.099	0.150	0.210	0.271
Andalucía	0.066	0.056	0.113	0.172	0.235	0.300
Aragón	0.066	0.076	0.155	0.232	0.301	0.370
Asturias	0.053	0.033	0.066	0.100	0.140	0.181
Islas.Baleares	0.029	0.031	0.055	0.078	0.105	0.125
Canarias	0.044	0.041	0.071	0.100	0.153	0.198
Cantabria	0.044	0.045	0.081	0.107	0.136	0.157
Castilla.La.Mancha	0.091	0.076	0.159	0.241	0.320	0.404
Castilla.y.León	0.062	0.054	0.110	0.166	0.228	0.293
Cataluña	0.064	0.059	0.114	0.170	0.231	0.286
Ceuta	0.158	0.104	0.272	0.414	0.567	0.735
Comunidad.Valenciana	0.048	0.045	0.087	0.126	0.179	0.232
Extremadura	0.044	0.049	0.088	0.120	0.159	0.191
Galicia	0.074	0.078	0.160	0.236	0.308	0.385
Madrid	0.058	0.049	0.100	0.150	0.202	0.262
Melilla	0.087	0.063	0.128	0.200	0.275	0.351
Murcia	0.044	0.044	0.074	0.105	0.166	0.213
Navarra	0.050	0.042	0.081	0.117	0.168	0.219
País.Vasco	0.058	0.044	0.081	0.120	0.177	0.231
La.Rioja	0.075	0.052	0.106	0.158	0.214	0.284

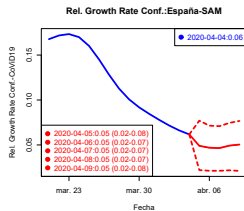
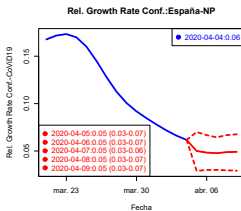
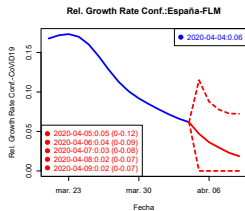
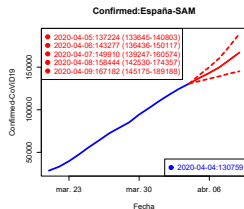
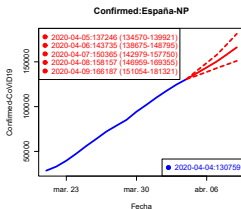
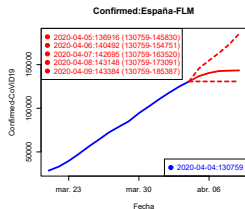
Table: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.062	0.049	0.096	0.146	0.212	0.279
Andalucía	0.066	0.059	0.122	0.185	0.258	0.343
Aragón	0.066	0.053	0.123	0.204	0.297	0.369
Asturias	0.053	0.047	0.090	0.120	0.157	0.216
Islas.Baleares	0.029	0.026	0.037	0.060	0.095	0.107
Canarias	0.044	0.032	0.051	0.079	0.120	0.153
Cantabria	0.044	0.033	0.056	0.090	0.149	0.210
Castilla.La.Mancha	0.091	0.078	0.169	0.248	0.350	0.458
Castilla.y.León	0.062	0.047	0.092	0.147	0.217	0.272
Cataluña	0.064	0.053	0.113	0.184	0.219	0.251
Ceuta	0.158	0.184	0.394	0.636	0.903	1.191
Comunidad.Valenciana	0.048	0.037	0.076	0.123	0.187	0.248
Extremadura	0.044	0.028	0.060	0.104	0.203	0.344
Galicia	0.074	0.069	0.148	0.227	0.315	0.382
Madrid	0.058	0.048	0.096	0.133	0.197	0.282
Melilla	0.087	0.065	0.150	0.226	0.325	0.426
Murcia	0.044	0.032	0.042	0.065	0.112	0.148
Navarra	0.050	0.040	0.071	0.097	0.150	0.208
País.Vasco	0.058	0.042	0.068	0.097	0.143	0.178
La.Rioja	0.075	0.053	0.122	0.173	0.240	0.333

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

Confirmados: España

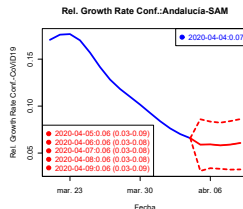
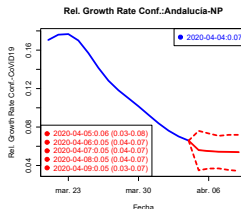
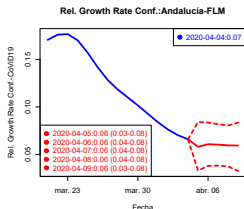
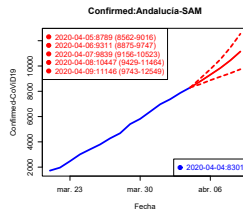
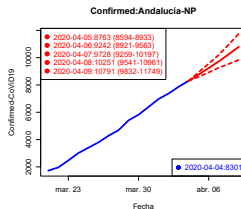
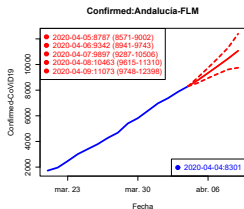


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Andalucía

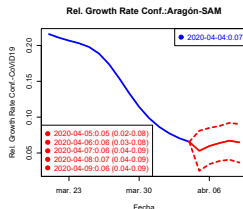
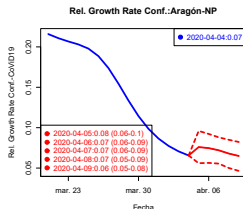
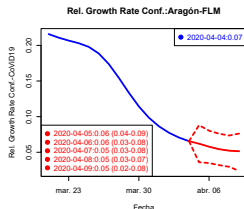
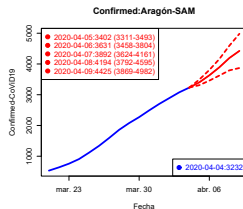
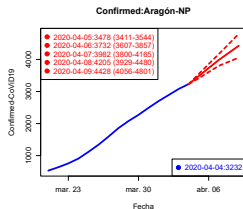
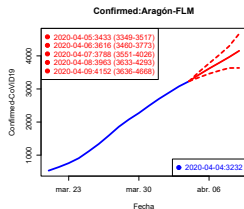


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

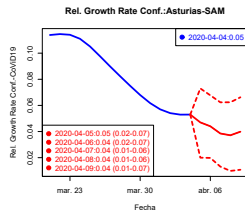
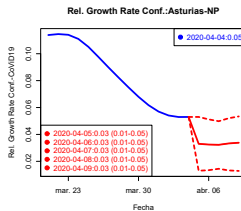
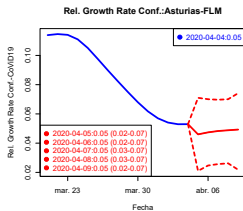
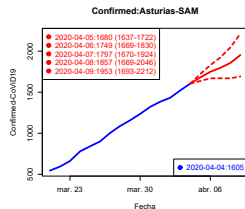
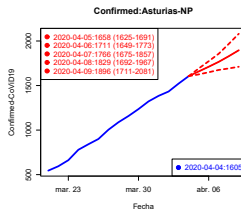
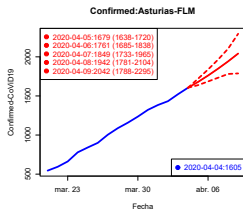


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

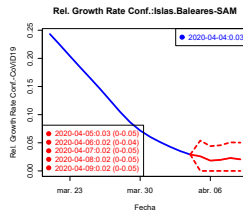
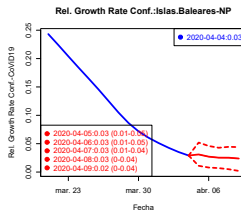
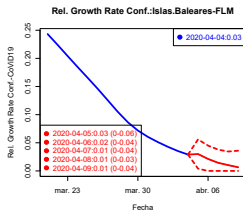
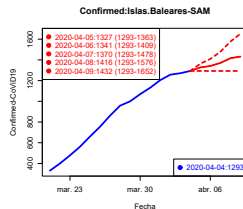
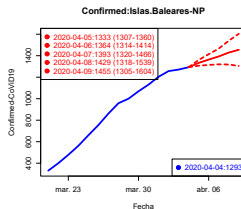
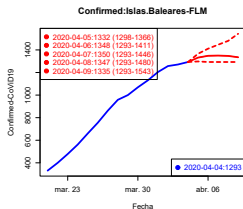
◀ Fallecidos

Confirmados: Asturias



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

Confirmados: Islas Baleares

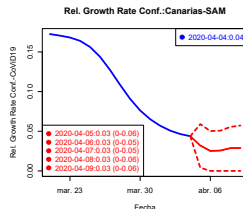
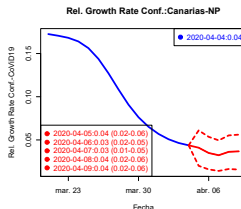
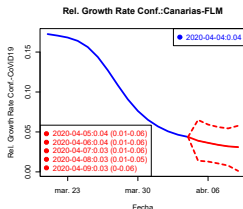
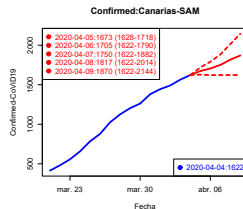
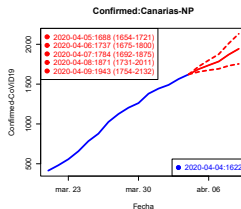
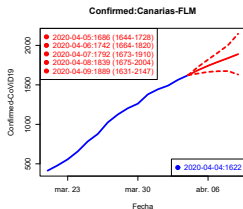


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

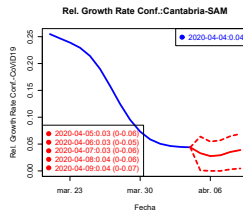
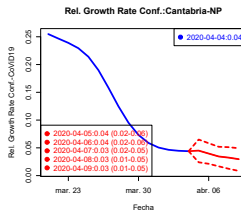
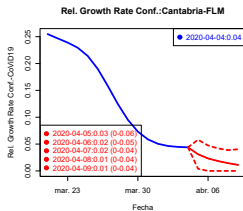
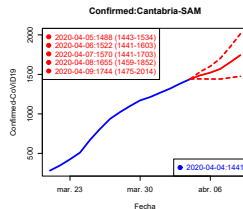
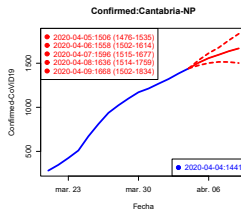
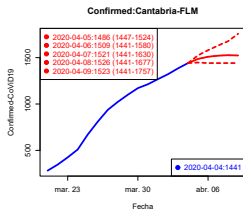


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

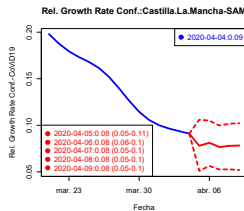
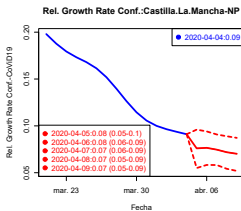
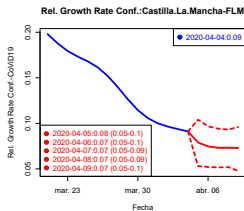
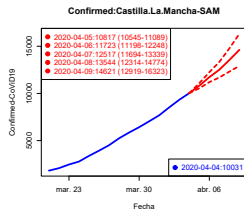
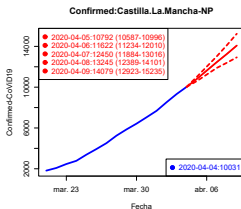
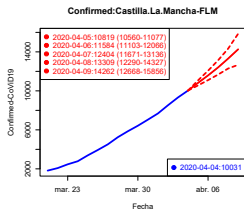


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla-La Mancha

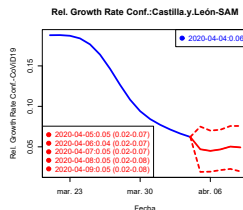
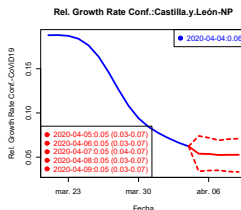
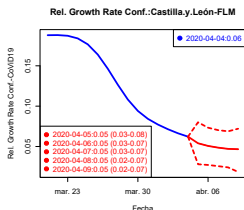
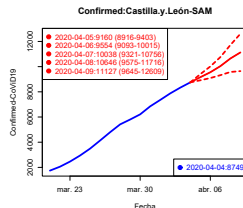
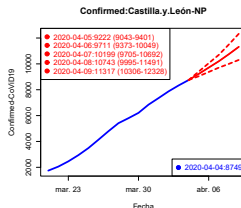
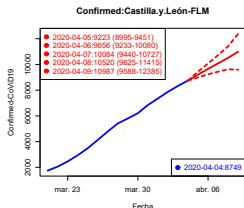


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

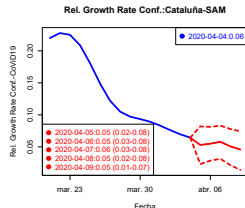
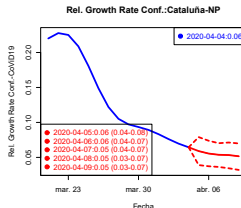
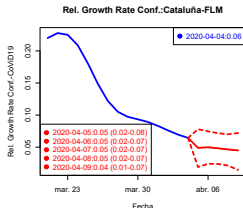
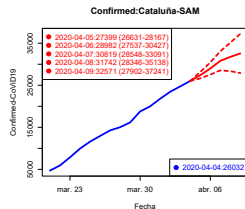
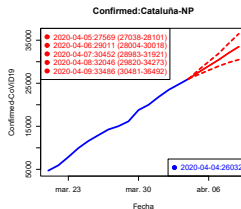
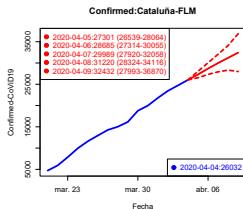


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

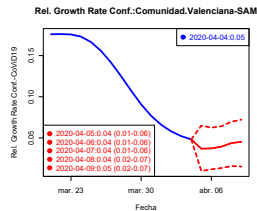
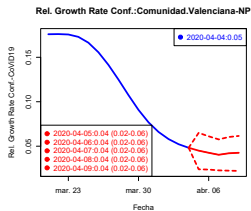
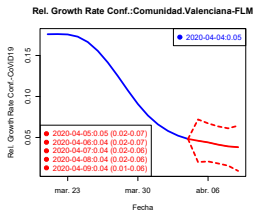
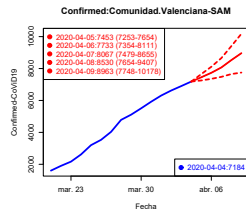
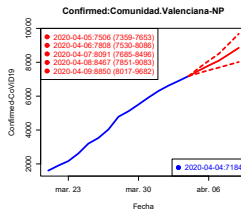
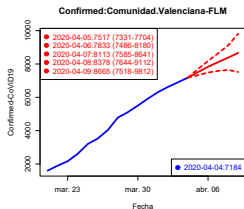
◀ Fallecidos

Confirmados: Cataluña



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

Confirmados: C. Valenciana



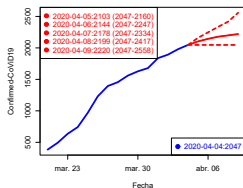
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

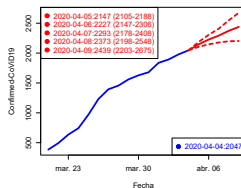
◀ Fallecidos

Confirmados: Extremadura

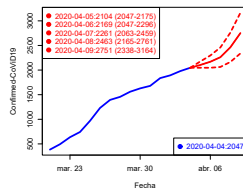
Confirmed:Extremadura-FLM



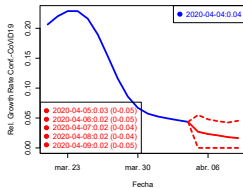
Confirmed:Extremadura-NP



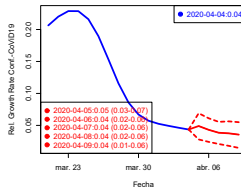
Confirmed:Extremadura-SAM



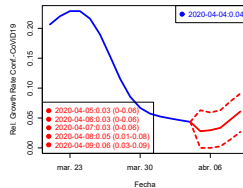
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Rel. Growth Rate Conf.:Extremadura-NP



Rel. Growth Rate Conf.:Extremadura-SAM

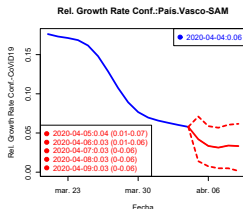
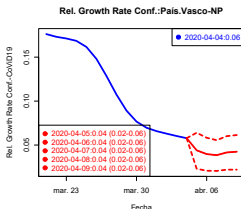
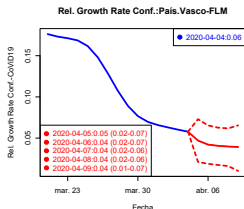
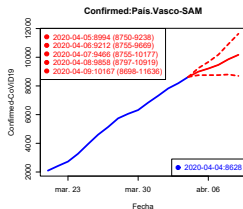
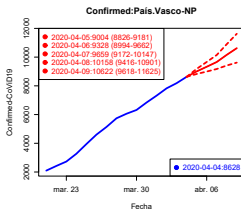
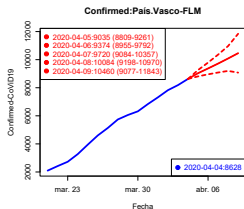


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: País Vasco



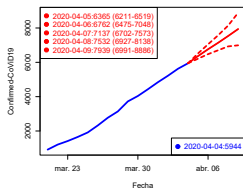
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

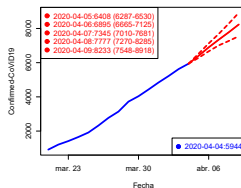
◀ Fallecidos

Confirmados: Galicia

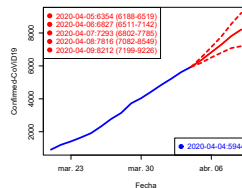
Confirmed:Galicia-FLM



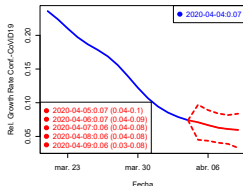
Confirmed:Galicia-NP



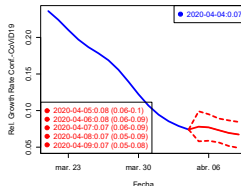
Confirmed:Galicia-SAM



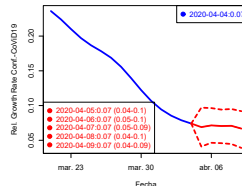
Rel. Growth Rate Conf.:Galicia-FLM



Rel. Growth Rate Conf.:Galicia-NP



Rel. Growth Rate Conf.:Galicia-SAM

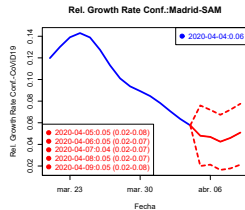
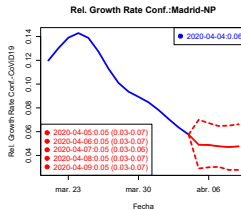
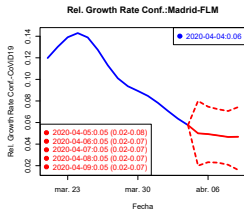
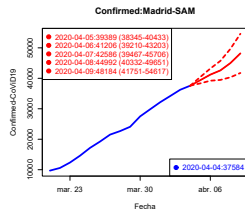
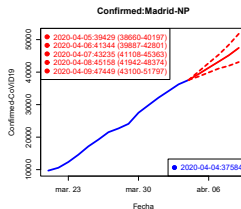
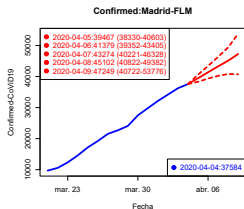


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

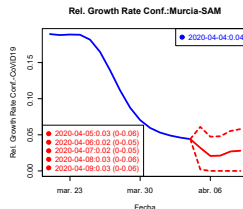
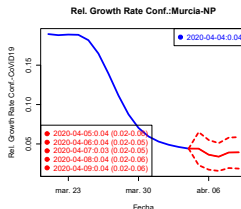
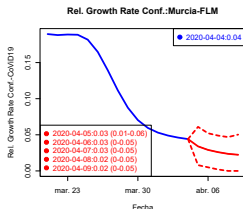
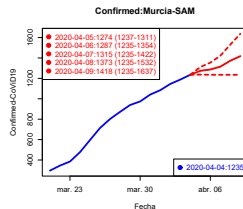
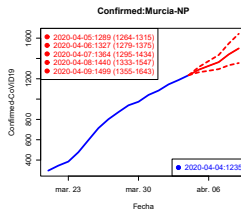
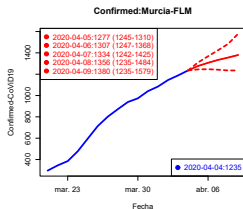


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

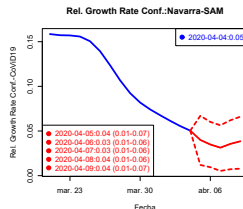
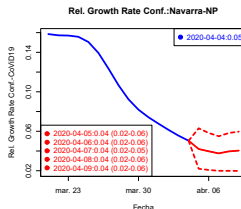
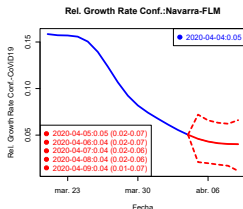
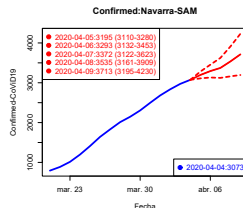
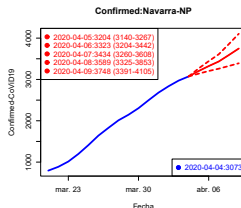
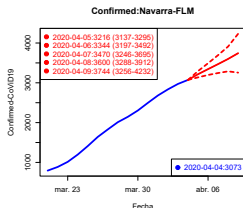
◀ Fallecidos

Confirmados: Murcia



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

Confirmados: Navarra

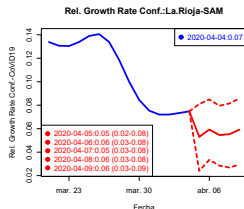
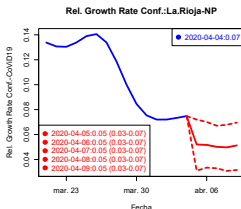
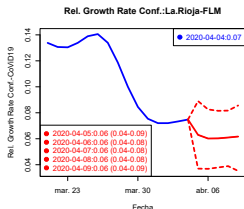
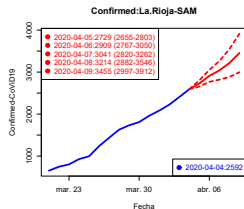
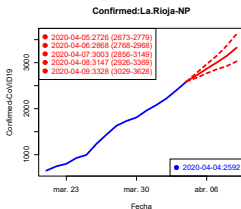
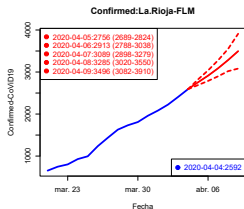


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: La Rioja



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

◀ Confirmados

◀ Fallecidos

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Modelos para fallecidos por CoViD-19

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Países/Regiones distintos incorporados: 68

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

Horiz	Medida	FLM	NP	SAM
H1	σ_R^2	0.05	0.01	0.047
H1	$\sigma_R^2(rob.)$	0.057	0.003	0.053
H1	r^2	0.118	0.866	0.165
H2	σ_R^2	0.141	0.03	0.131
H2	$\sigma_R^2(rob.)$	0.125	0.014	0.134
H2	r^2	0.19	0.865	0.244
H3	σ_R^2	0.332	0.075	0.31
H3	$\sigma_R^2(rob.)$	0.337	0.055	0.299
H3	r^2	0.221	0.865	0.27

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	12418	13019	13616	14345	14840	15108
Andalucía	470	501	533	574	600	613
Aragón	270	301	337	367	408	455
Asturias	80	80	80	80	80	80
Islas.Baleares	75	78	79	81	81	77
Canarias	80	83	86	88	90	91
Cantabria	68	68	68	68	68	68
Castilla.La.Mancha	1055	1096	1133	1183	1212	1216
Castilla.y.León	847	891	933	979	1010	1018
Cataluña	2637	2737	2805	2921	2838	2637
Ceuta	2	3	3	4	5	6
Comunidad.Valenciana	613	646	680	722	753	766
Extremadura	218	232	245	261	266	261
Galicia	174	190	207	224	241	257
Madrid	4941	5110	5274	5513	5673	5754
Melilla	2	2	3	3	3	4
Murcia	59	63	67	72	71	67
Navarra	178	178	178	178	178	178
País.Vasco	515	553	596	641	690	742
La.Rioja	134	142	149	161	168	170

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	12418	13363	14260	15154	16105	17150
Andalucía	470	508	545	581	620	662
Aragón	270	307	342	367	392	419
Asturias	80	83	86	90	97	106
Islas.Baleares	75	79	82	86	90	95
Canarias	80	85	89	94	99	105
Cantabria	68	72	76	79	82	86
Castilla.La.Mancha	1055	1170	1279	1382	1487	1601
Castilla.y.León	847	932	1007	1074	1147	1225
Cataluña	2637	2850	3034	3219	3427	3658
Ceuta	2	2	3	4	5	6
Comunidad.Valenciana	613	664	712	756	804	855
Extremadura	218	236	248	258	269	281
Galicia	174	196	218	236	253	272
Madrid	4941	5244	5541	5860	6192	6578
Melilla	2	2	2	2	3	3
Murcia	59	63	67	70	74	78
Navarra	178	189	200	211	222	236
País.Vasco	515	549	581	614	649	689
La.Rioja	134	144	153	163	172	183

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	12418	13021	12788	13409	13314	12418
Andalucía	470	492	529	526	530	534
Aragón	270	298	299	353	389	418
Asturias	80	80	80	80	80	80
Islas.Baleares	75	75	75	75	75	75
Canarias	80	82	82	83	84	80
Cantabria	68	68	68	68	68	68
Castilla.La.Mancha	1055	1087	1055	1055	1055	1055
Castilla.y.León	847	871	847	847	847	847
Cataluña	2637	2637	2637	2637	2637	2637
Ceuta	2	3	3	4	5	6
Comunidad.Valenciana	613	637	693	691	720	741
Extremadura	218	221	218	218	218	218
Galicia	174	185	206	206	221	250
Madrid	4941	5271	5546	5599	5659	5203
Melilla	2	2	3	3	3	3
Murcia	59	63	59	59	59	59
Navarra	178	178	178	178	178	178
País.Vasco	515	562	602	661	700	709
La.Rioja	134	142	158	157	159	157

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.078	0.048	0.096	0.155	0.195	0.217
Andalucía	0.117	0.066	0.133	0.221	0.276	0.304
Aragón	0.120	0.115	0.247	0.358	0.511	0.682
Asturias	0.065	0.000	0.000	0.000	0.000	0.000
Islas.Baleares	0.100	0.034	0.059	0.085	0.074	0.020
Canarias	0.065	0.037	0.072	0.100	0.127	0.135
Cantabria	0.071	0.000	0.000	0.000	0.000	0.000
Castilla.La.Mancha	0.079	0.039	0.074	0.121	0.149	0.153
Castilla.y.León	0.097	0.052	0.102	0.156	0.192	0.201
Cataluña	0.085	0.038	0.064	0.108	0.076	0.000
Ceuta	0.164	0.181	0.399	0.661	0.955	1.307
Comunidad.Valenciana	0.113	0.054	0.109	0.178	0.227	0.250
Extremadura	0.081	0.064	0.124	0.197	0.219	0.196
Galicia	0.138	0.089	0.186	0.284	0.384	0.475
Madrid	0.059	0.034	0.067	0.116	0.148	0.164
Melilla	0.101	0.105	0.224	0.403	0.498	0.562
Murcia	0.126	0.071	0.136	0.208	0.204	0.128
Navarra	0.085	0.000	0.000	0.000	0.000	0.000
País.Vasco	0.085	0.074	0.158	0.244	0.338	0.439
La.Rioja	0.101	0.056	0.114	0.203	0.252	0.267

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	0.078	0.076	0.148	0.220	0.297	0.381
Andalucía	0.117	0.081	0.159	0.237	0.318	0.408
Aragón	0.120	0.138	0.266	0.359	0.449	0.552
Asturias	0.065	0.034	0.076	0.129	0.209	0.326
Islas.Baleares	0.100	0.051	0.097	0.143	0.200	0.258
Canarias	0.065	0.058	0.114	0.171	0.236	0.309
Cantabria	0.071	0.063	0.115	0.159	0.201	0.263
Castilla.La.Mancha	0.079	0.109	0.212	0.310	0.409	0.517
Castilla.y.León	0.097	0.100	0.189	0.268	0.354	0.446
Cataluña	0.085	0.081	0.150	0.221	0.300	0.387
Ceuta	0.164	0.112	0.290	0.595	0.929	1.342
Comunidad.Valenciana	0.113	0.083	0.160	0.233	0.311	0.394
Extremadura	0.081	0.080	0.138	0.183	0.231	0.290
Galicia	0.138	0.128	0.249	0.352	0.450	0.561
Madrid	0.059	0.061	0.122	0.186	0.253	0.331
Melilla	0.101	0.042	0.090	0.151	0.230	0.320
Murcia	0.126	0.071	0.131	0.187	0.250	0.319
Navarra	0.085	0.061	0.121	0.182	0.248	0.325
País.Vasco	0.085	0.066	0.129	0.191	0.260	0.337
La.Rioja	0.101	0.070	0.140	0.212	0.284	0.366

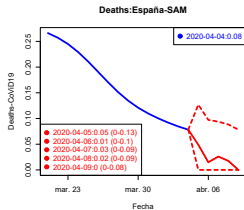
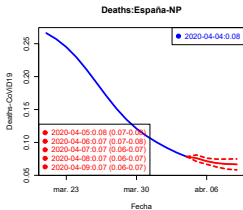
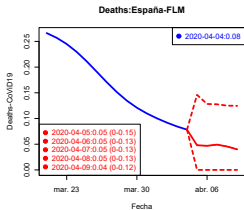
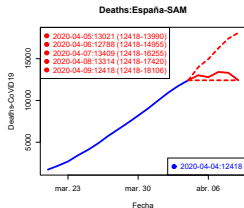
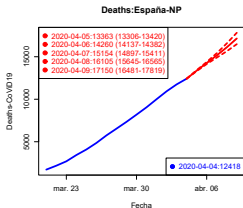
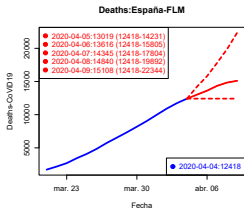
Table: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.078	0.049	0.030	0.080	0.072	0.000
Andalucía	0.117	0.047	0.125	0.119	0.127	0.136
Aragón	0.120	0.103	0.106	0.307	0.440	0.548
Asturias	0.065	0.000	0.000	0.000	0.000	0.000
Islas.Baleares	0.100	0.000	0.000	0.000	0.000	0.000
Canarias	0.065	0.028	0.024	0.038	0.051	0.001
Cantabria	0.071	0.000	0.000	0.000	0.000	0.000
Castilla.La.Mancha	0.079	0.030	0.000	0.000	0.000	0.000
Castilla.y.León	0.097	0.028	0.000	0.000	0.000	0.000
Cataluña	0.085	0.000	0.000	0.000	0.000	0.000
Ceuta	0.164	0.243	0.493	0.774	1.124	1.419
Comunidad.Valenciana	0.113	0.039	0.130	0.126	0.174	0.209
Extremadura	0.081	0.014	0.000	0.000	0.000	0.000
Galicia	0.138	0.062	0.185	0.182	0.269	0.434
Madrid	0.059	0.067	0.122	0.133	0.145	0.053
Melilla	0.101	0.134	0.200	0.410	0.458	0.429
Murcia	0.126	0.059	0.000	0.000	0.000	0.000
Navarra	0.085	0.000	0.000	0.000	0.000	0.000
País.Vasco	0.085	0.092	0.169	0.283	0.359	0.377
La.Rioja	0.101	0.060	0.180	0.168	0.187	0.167

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

Fallecidos: España

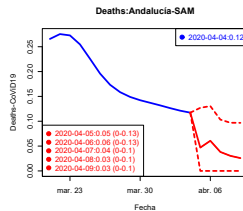
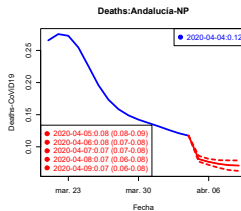
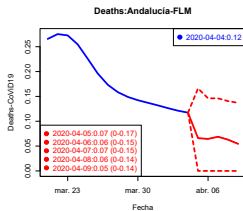
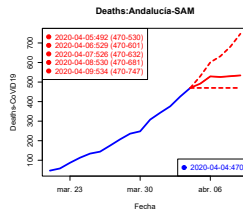
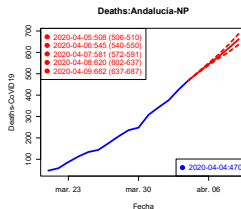
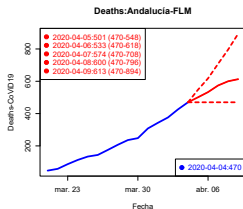


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Andalucía

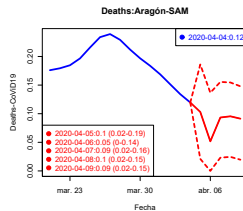
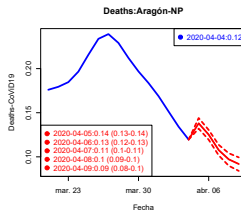
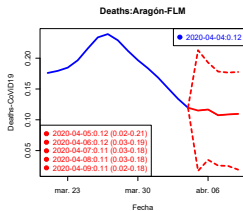
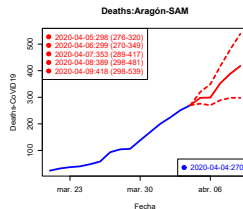
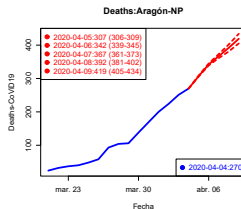
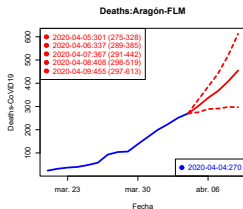


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Aragón

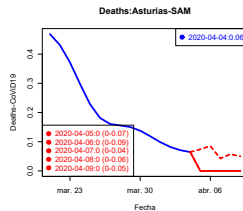
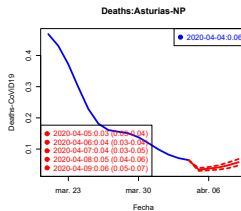
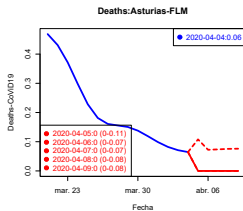
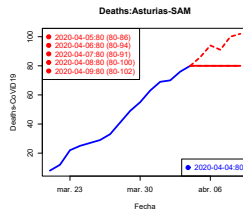
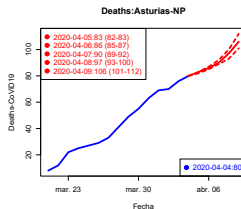
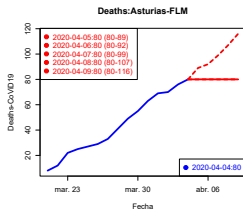


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

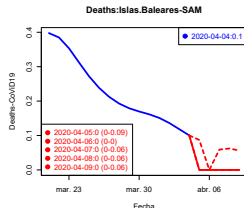
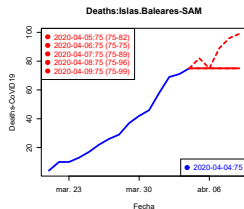
Fallecidos: Asturias



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

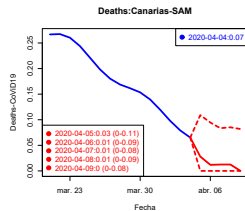
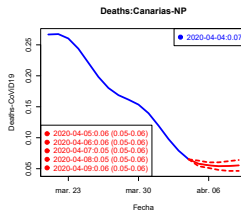
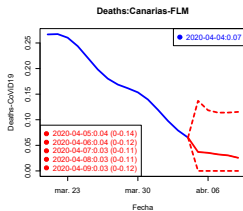
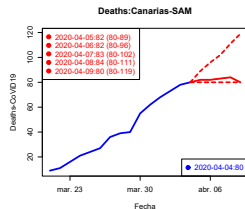
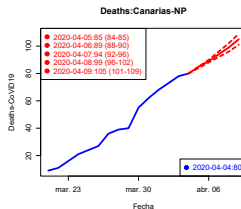
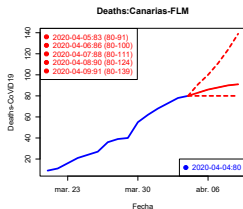
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Canarias

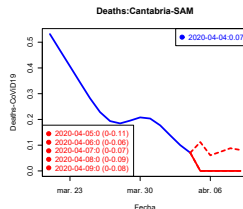
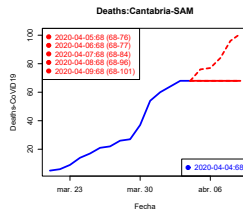


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

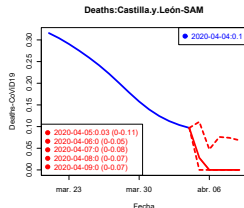
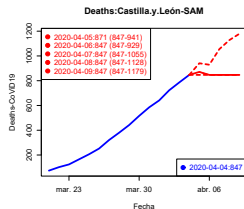
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◀ Fallecidos

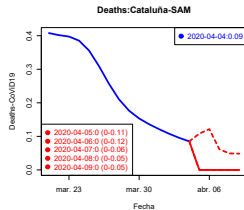
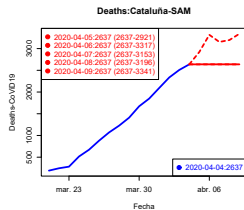
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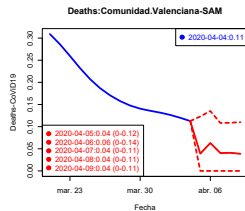
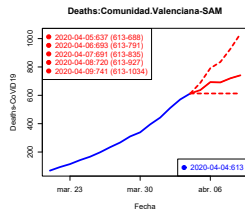
◀ Confirmados ▶ Fallecidos



◀ Confirmados ◀ Fallecidos

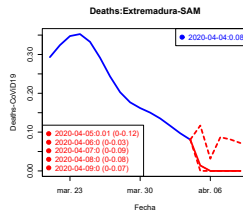
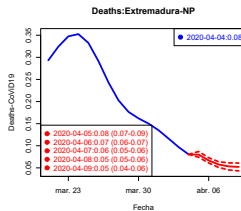
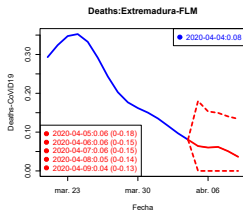
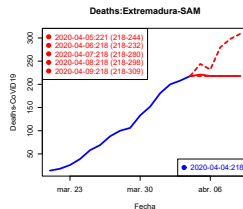
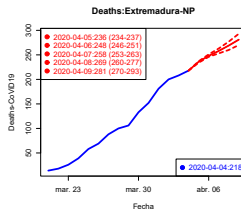
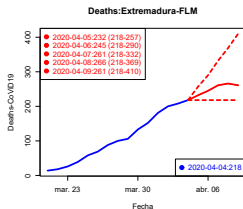


◀ Confirmados ◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Extremadura

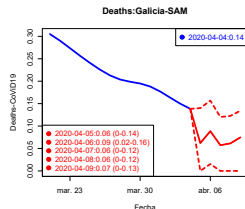
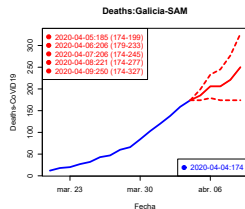


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

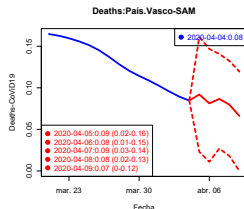
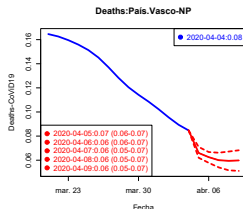
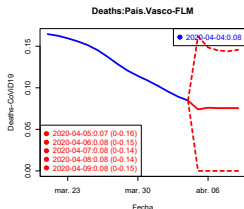
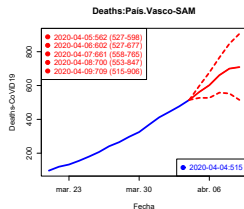
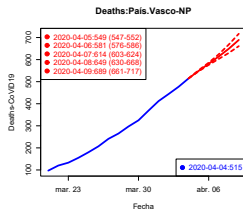
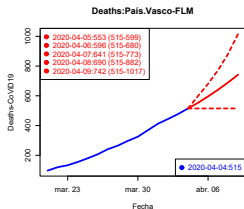
◀ Confirmados

◀ Fallecidos

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◀ Confirmados ◀ Fallecidos

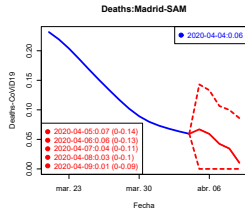
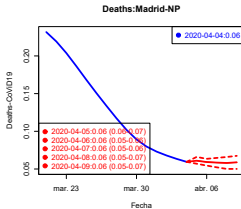
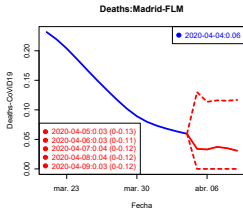
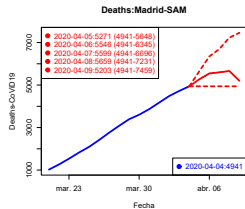
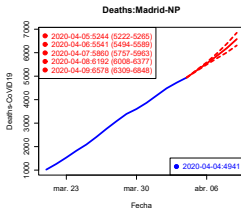
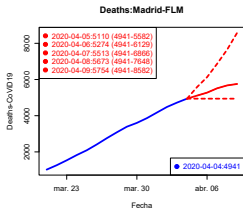


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Madrid

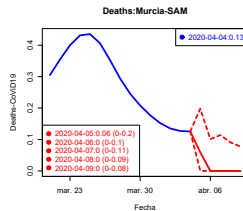
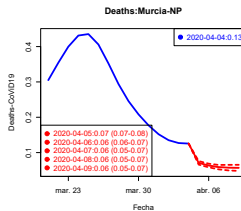
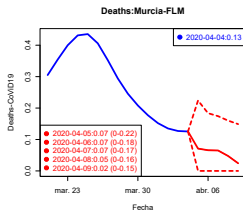
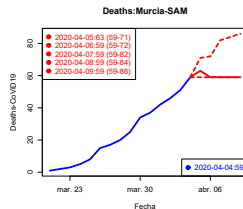
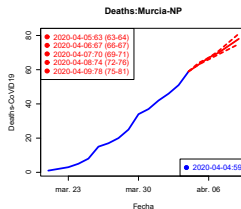
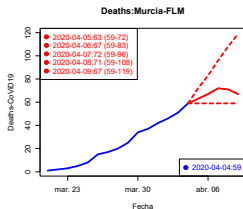


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

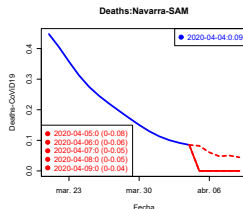
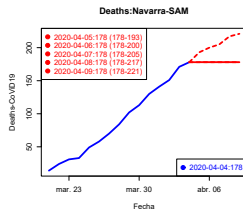
Fallecidos: Murcia



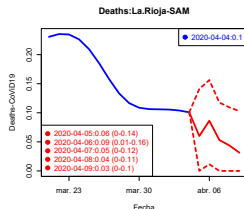
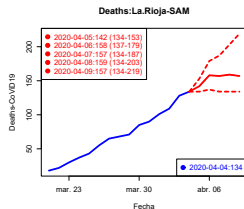
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Breve descripción del Modelo de predicción

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

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

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

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

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

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