

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

Datos

Número de datos funcionales: 2123

Países/Regiones distintos incorporados: 125

Predicciones:

▶ España

► Andalucía

► Aragón

► Asturias

► I. Balears

► **Canarias**

► Cantabria

► **Cataluña**

► Castilla-La Mancha

► **Castilla y León**

► C. Valenciana

► Extremadura

► País Vasco

► **Galicia**

► Madrid

► **Murcia**

► Navarra

► **La Rioja**

▶ Mod Lineal

▶ Mod NP

► Mod Aditivo

Horiz	Medida	FLM	NP	SAM
H1	σ_R^2	0.007	0.004	0.006
H1	$\sigma_R^2(rob.)$	0.004	0.002	0.004
H1	r^2	0.435	0.696	0.459
H2	σ_R^2	0.016	0.009	0.015
H2	$\sigma_R^2(rob.)$	0.015	0.008	0.013
H2	r^2	0.59	0.803	0.623
H3	σ_R^2	0.033	0.018	0.03
H3	$\sigma_R^2(rob.)$	0.035	0.018	0.031
H3	r^2	0.651	0.831	0.682

Último dato: 2020-04-07 21:00 que se publica 2020-04-08 12:00.

Tabla Previsión Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	146690	151786	156522	161155	166608	171634
Andalucía	8997	9316	9614	9889	10222	10546
Aragón	3549	3686	3796	3902	4050	4170
Asturias	1705	1743	1783	1824	1872	1922
Islas.Baleares	1412	1439	1464	1489	1523	1549
Canarias	1762	1802	1838	1874	1922	1960
Cantabria	1572	1607	1637	1666	1701	1729
Castilla.La.Mancha	11788	12414	13069	13699	14346	15011
Castilla.y.León	10058	10434	10774	11113	11512	11866
Cataluña	29647	30784	31893	32984	34176	35346
Ceuta	84	89	95	101	105	111
Comunidad.Valenciana	7655	7858	8012	8157	8393	8553
Extremadura	2184	2229	2269	2308	2352	2385
Galicia	6538	6821	7069	7296	7620	7899
Madrid	42450	43898	45300	46664	48233	49772
Melilla	93	97	102	107	111	116
Murcia	1326	1354	1379	1404	1433	1454
Navarra	3467	3569	3664	3760	3877	3980
País.Vasco	9452	9706	9936	10174	10466	10701
La.Rioja	2951	3075	3194	3315	3447	3578

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

Tabla Previsión Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	146690	152802	157558	160682	163768	166950
Andalucía	8997	9310	9513	9573	9666	9805
Aragón	3549	3661	3747	3793	3886	3996
Asturias	1705	1755	1797	1825	1857	1892
Islas.Baleares	1412	1444	1475	1498	1522	1534
Canarias	1762	1811	1852	1881	1913	1934
Cantabria	1572	1620	1660	1712	1753	1789
Castilla.La.Mancha	11788	12460	13080	13622	14188	14941
Castilla.y.León	10058	10500	10902	11221	11573	11948
Cataluña	29647	31006	32174	32927	33642	34370
Ceuta	84	89	93	95	96	96
Comunidad.Valenciana	7655	7830	7944	7955	8022	8050
Extremadura	2184	2244	2294	2358	2396	2427
Galicia	6538	6751	6922	7043	7247	7517
Madrid	42450	44240	45798	46869	47713	48601
Melilla	93	97	101	105	109	112
Murcia	1326	1364	1392	1424	1449	1462
Navarra	3467	3601	3712	3798	3877	3947
País.Vasco	9452	9799	10053	10268	10467	10612
La.Rioja	2951	3090	3224	3344	3453	3594

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	0.043	0.040	0.063	0.074	0.079	0.071
Andalucía	0.032	0.036	0.065	0.088	0.109	0.130
Aragón	0.036	0.034	0.065	0.086	0.102	0.116
Asturias	0.026	0.029	0.053	0.075	0.096	0.119
Islas.Baleares	0.029	0.024	0.047	0.063	0.078	0.087
Canarias	0.031	0.028	0.053	0.072	0.091	0.105
Cantabria	0.033	0.027	0.047	0.060	0.071	0.074
Castilla.La.Mancha	0.061	0.056	0.114	0.171	0.229	0.290
Castilla.y.León	0.049	0.044	0.087	0.127	0.168	0.206
Cataluña	0.048	0.045	0.083	0.119	0.155	0.188
Ceuta	0.030	0.054	0.096	0.117	0.122	0.128
Comunidad.Valenciana	0.026	0.026	0.043	0.052	0.057	0.058
Extremadura	0.026	0.024	0.045	0.057	0.066	0.067
Galicia	0.038	0.038	0.073	0.100	0.122	0.145
Madrid	0.044	0.041	0.078	0.111	0.143	0.171
Melilla	0.045	0.052	0.095	0.142	0.193	0.249
Murcia	0.028	0.025	0.044	0.054	0.063	0.064
Navarra	0.040	0.038	0.073	0.106	0.140	0.171
País.Vasco	0.037	0.035	0.066	0.093	0.120	0.142
La.Rioja	0.049	0.045	0.094	0.141	0.190	0.242

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	0.043	0.035	0.067	0.099	0.136	0.170
Andalucía	0.032	0.035	0.069	0.099	0.136	0.172
Aragón	0.036	0.038	0.070	0.100	0.141	0.175
Asturias	0.026	0.022	0.046	0.070	0.098	0.127
Islas.Baleares	0.029	0.019	0.037	0.055	0.079	0.097
Canarias	0.031	0.023	0.043	0.063	0.091	0.112
Cantabria	0.033	0.022	0.041	0.060	0.082	0.100
Castilla.La.Mancha	0.061	0.053	0.109	0.162	0.217	0.273
Castilla.y.León	0.049	0.037	0.071	0.105	0.145	0.180
Cataluña	0.048	0.038	0.076	0.113	0.153	0.192
Ceuta	0.030	0.064	0.130	0.197	0.253	0.315
Comunidad.Valenciana	0.026	0.026	0.047	0.066	0.096	0.117
Extremadura	0.026	0.021	0.039	0.057	0.077	0.092
Galicia	0.038	0.043	0.081	0.116	0.165	0.208
Madrid	0.044	0.034	0.067	0.099	0.136	0.172
Melilla	0.045	0.046	0.098	0.146	0.197	0.249
Murcia	0.028	0.021	0.040	0.059	0.081	0.096
Navarra	0.040	0.030	0.057	0.084	0.118	0.148
País.Vasco	0.037	0.027	0.051	0.076	0.107	0.132
La.Rioja	0.049	0.042	0.082	0.123	0.168	0.212

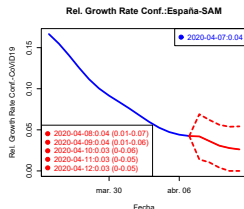
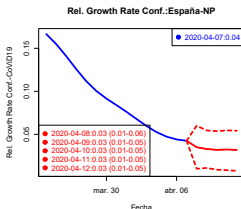
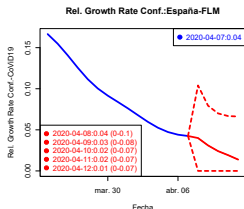
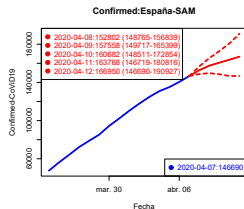
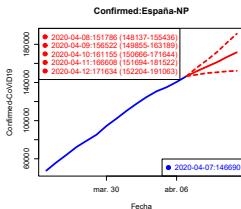
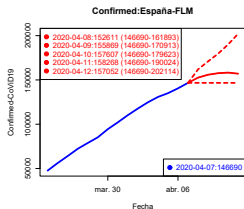
Table: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.043	0.042	0.074	0.095	0.116	0.138
Andalucía	0.032	0.035	0.057	0.064	0.074	0.090
Aragón	0.036	0.032	0.056	0.069	0.095	0.126
Asturias	0.026	0.029	0.054	0.071	0.089	0.110
Islas.Baleares	0.029	0.023	0.045	0.061	0.078	0.086
Canarias	0.031	0.028	0.051	0.068	0.086	0.097
Cantabria	0.033	0.030	0.056	0.089	0.115	0.138
Castilla.La.Mancha	0.061	0.057	0.110	0.156	0.204	0.267
Castilla.y.León	0.049	0.044	0.084	0.116	0.151	0.188
Cataluña	0.048	0.046	0.085	0.111	0.135	0.159
Ceuta	0.030	0.060	0.102	0.130	0.137	0.139
Comunidad.Valenciana	0.026	0.023	0.038	0.039	0.048	0.052
Extremadura	0.026	0.028	0.050	0.080	0.097	0.111
Galicia	0.038	0.033	0.059	0.077	0.108	0.150
Madrid	0.044	0.042	0.079	0.104	0.124	0.145
Melilla	0.045	0.043	0.089	0.125	0.166	0.205
Murcia	0.028	0.028	0.050	0.074	0.093	0.102
Navarra	0.040	0.039	0.071	0.096	0.118	0.139
País.Vasco	0.037	0.037	0.064	0.086	0.107	0.123
La.Rioja	0.049	0.047	0.093	0.133	0.170	0.218

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

Confirmados: España

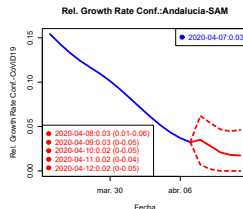
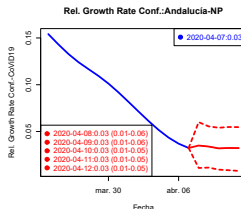
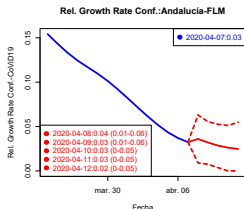
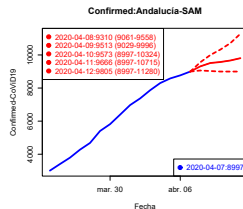
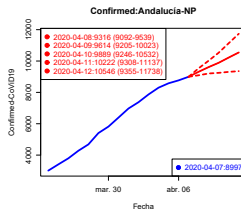
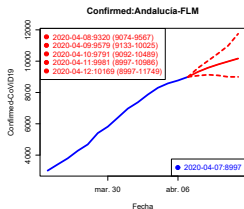


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Andalucía

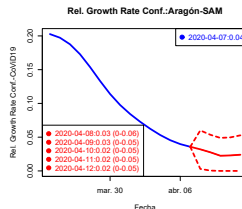
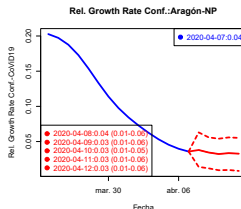
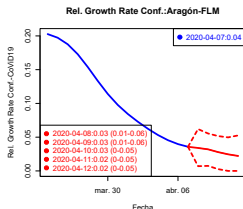
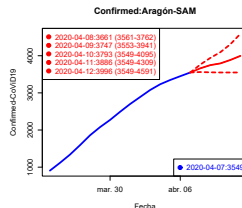
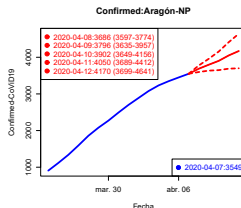
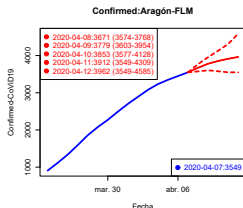


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

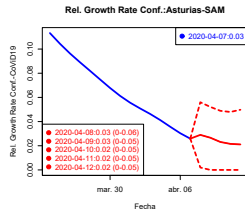
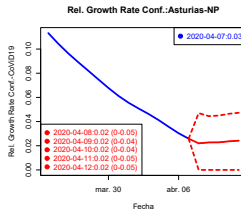
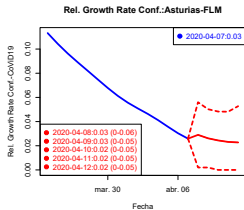
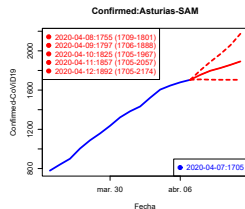
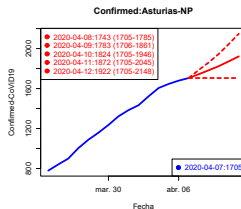
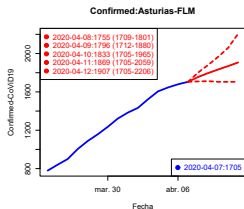


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

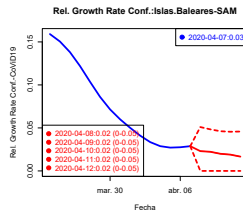
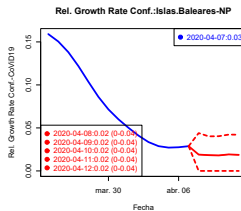
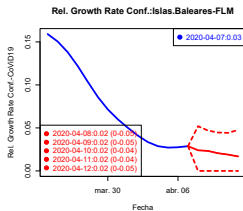
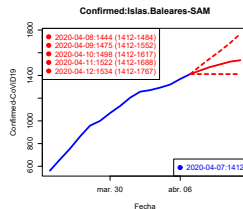
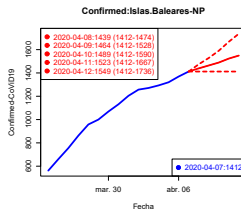
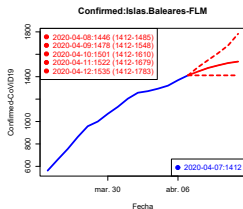


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

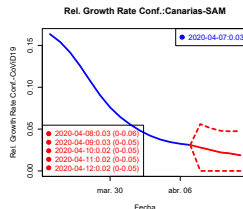
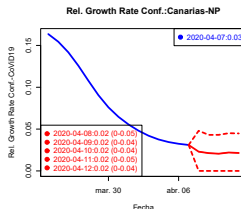
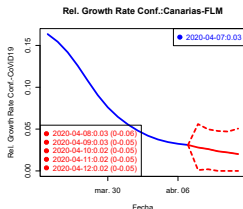
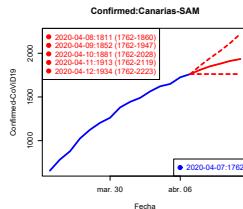
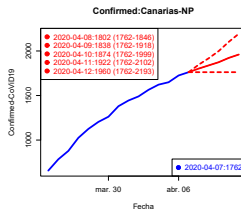
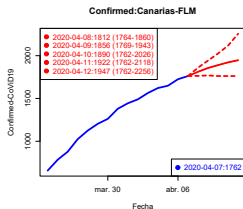


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

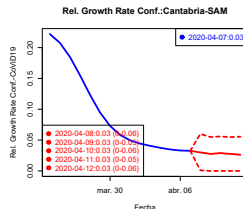
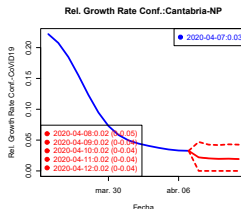
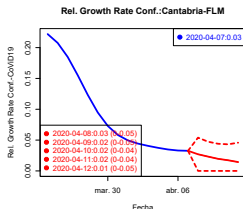
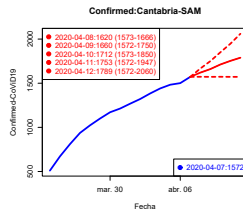
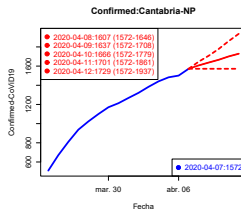
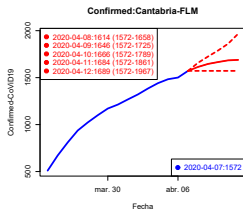


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria



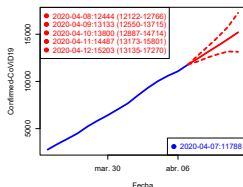
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

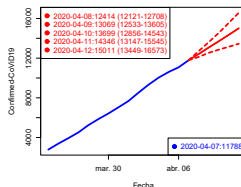
◀ Fallecidos

Confirmados: Castilla-La Mancha

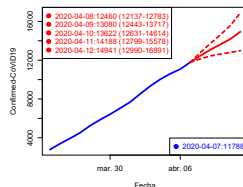
Confirmed:Castilla.La.Mancha-FLM



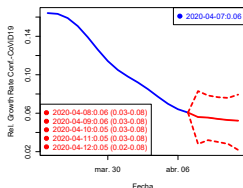
Confirmed:Castilla.La.Mancha-NP



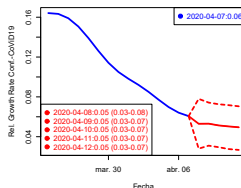
Confirmed:Castilla.La.Mancha-SAM



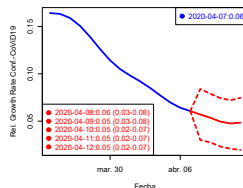
Rel. Growth Rate Conf.:Castilla.La.Mancha-FLM



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



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



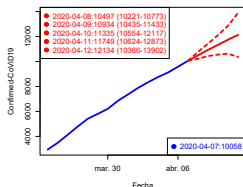
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

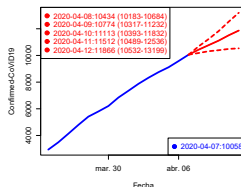
◀ Fallecidos

Confirmados: Castilla y León

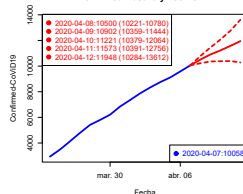
Confirmed:Castilla.y.León-FLM



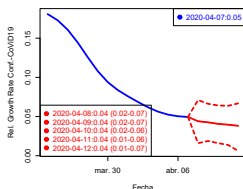
Confirmed:Castilla.y.León-NP



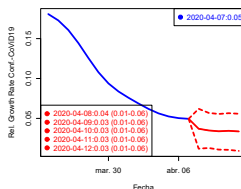
Confirmed:Castilla.y.León-SAM



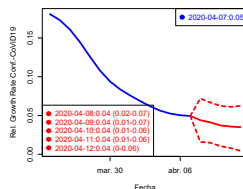
Rel. Growth Rate Conf.:Castilla.y.León-FLM



Rel. Growth Rate Conf.:Castilla.y.León-NP



Rel. Growth Rate Conf.:Castilla.y.León-SAM

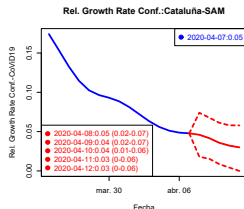
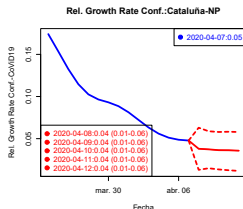
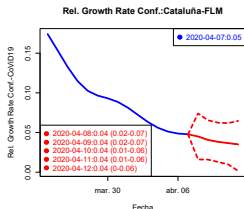
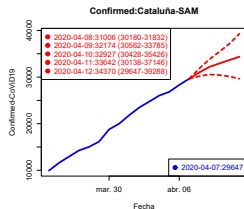
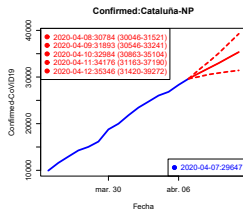
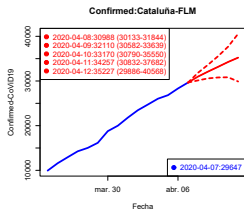


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

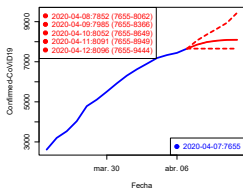
Confirmados: Cataluña



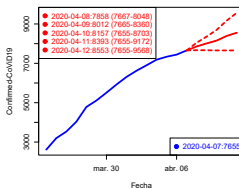
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

Confirmados: C. Valenciana

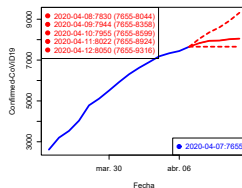
Confirmed:Comunidad.Valenciana-FLM



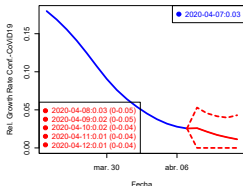
Confirmed:Comunidad.Valenciana-NP



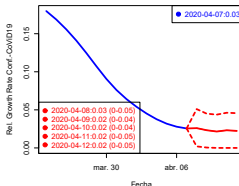
Confirmed:Comunidad.Valenciana-SAM



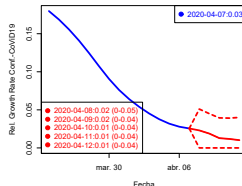
Rel. Growth Rate Conf.:Comunidad.Valenciana-FLM



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



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



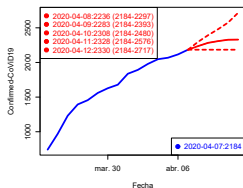
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

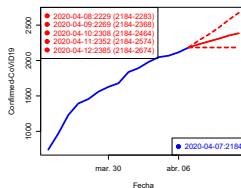
◀ Fallecidos

Confirmados: Extremadura

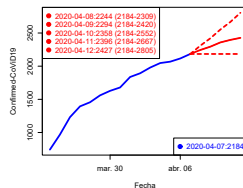
Confirmed:Extremadura-FLM



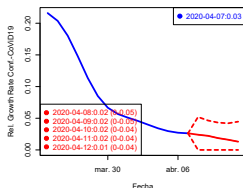
Confirmed:Extremadura-NP



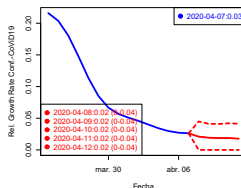
Confirmed:Extremadura-SAM



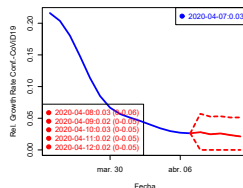
Rel. Growth Rate Conf.:Extremadura-FLM



Rel. Growth Rate Conf.:Extremadura-NP



Rel. Growth Rate Conf.:Extremadura-SAM

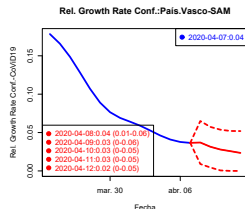
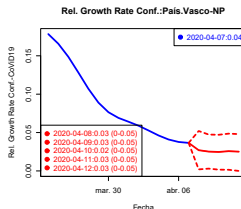
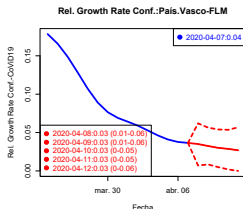
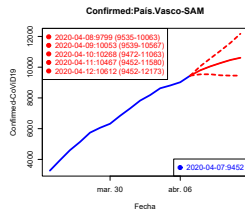
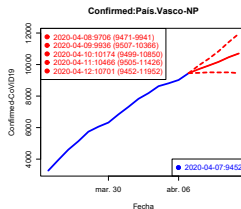
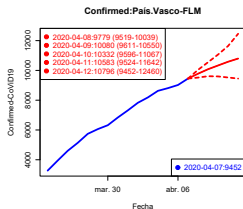


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: País Vasco

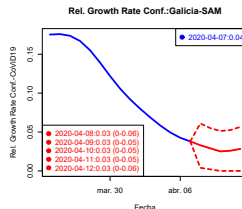
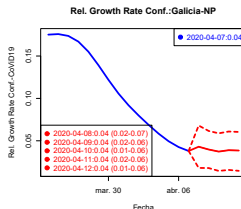
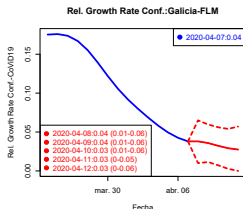
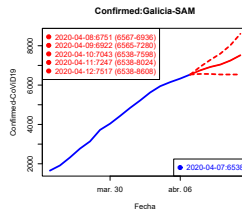
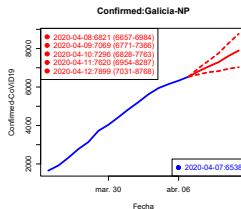
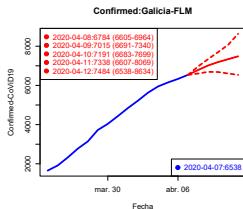


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Galicia

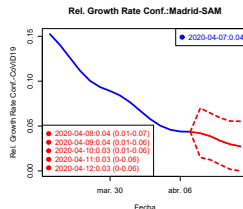
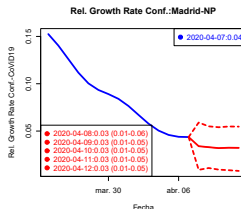
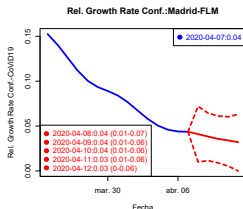
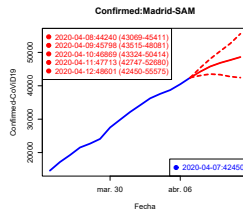
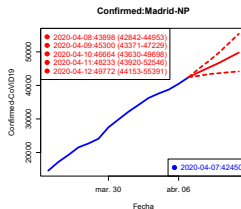
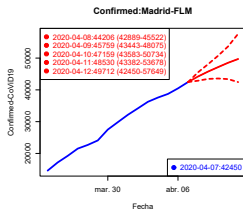


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

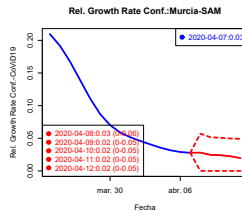
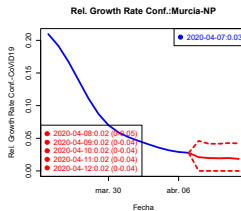
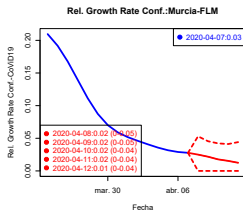
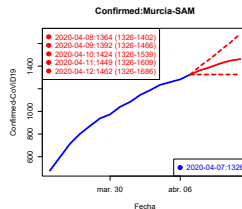
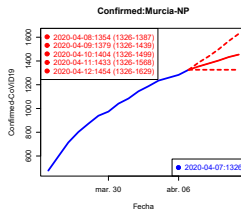
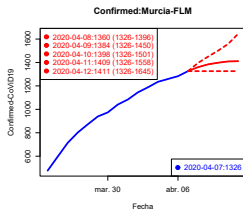


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

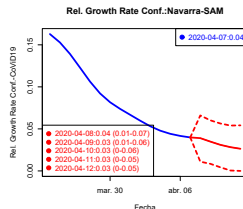
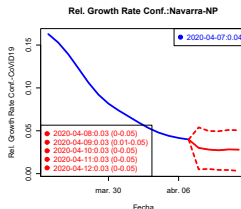
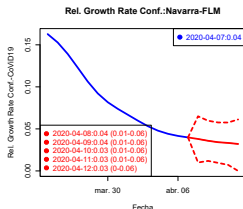
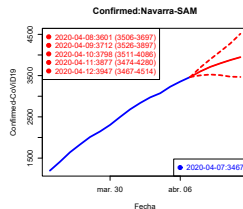
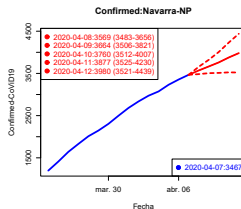
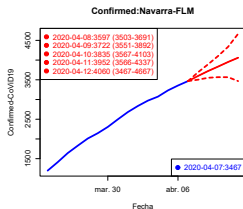


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

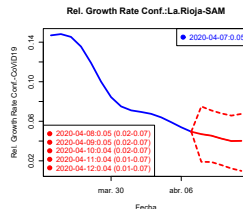
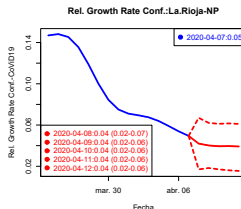
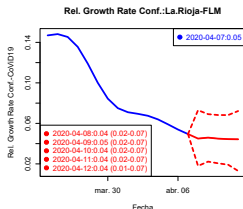
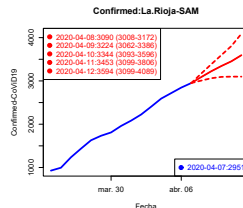
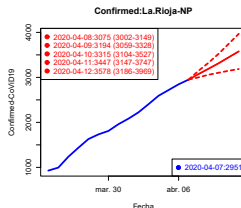
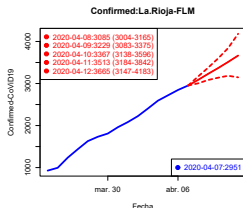
◀ Fallecidos

Confirmados: Navarra



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

Confirmados: La Rioja



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

◀ Confirmados

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Países/Regiones distintos incorporados: 73

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Horiz	Medida	FLM	NP	SAM
H1	σ_R^2	0.046	0.01	0.044
H1	$\sigma_R^2(rob.)$	0.055	0.004	0.036
H1	r^2	0.112	0.855	0.154
H2	σ_R^2	0.131	0.03	0.124
H2	$\sigma_R^2(rob.)$	0.115	0.016	0.115
H2	r^2	0.181	0.854	0.219
H3	σ_R^2	0.307	0.077	0.292
H3	$\sigma_R^2(rob.)$	0.305	0.057	0.264
H3	r^2	0.207	0.847	0.242

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	14555	15046	15460	15720	15771	15598
Andalucía	605	639	672	700	723	739
Aragón	349	371	393	409	420	426
Asturias	102	107	113	119	123	127
Islas.Baleares	89	90	90	89	89	89
Canarias	91	93	94	94	92	91
Cantabria	92	95	97	96	94	93
Castilla.La.Mancha	1255	1316	1375	1430	1468	1491
Castilla.y.León	1028	1063	1089	1100	1085	1040
Cataluña	3041	3041	3041	3041	3041	3041
Ceuta	4	5	6	8	9	11
Comunidad.Valenciana	724	756	785	799	812	820
Extremadura	271	273	271	271	271	271
Galicia	213	223	231	234	237	237
Madrid	5586	5782	5972	6136	6251	6335
Melilla	2	2	2	2	2	2
Murcia	85	86	85	85	85	85
Navarra	206	211	214	215	210	206
País.Vasco	635	669	706	735	761	787
La.Rioja	177	187	198	208	215	221

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	14555	15439	16330	17335	18515	20231
Andalucía	605	644	682	725	775	847
Aragón	349	370	394	416	439	466
Asturias	102	107	113	122	136	156
Islas.Baleares	89	92	97	103	113	129
Canarias	91	95	100	105	114	128
Cantabria	92	94	97	99	103	108
Castilla.La.Mancha	1255	1355	1455	1555	1658	1783
Castilla.y.León	1028	1088	1149	1215	1287	1384
Cataluña	3041	3240	3440	3661	3916	4276
Ceuta	4	5	5	6	7	8
Comunidad.Valenciana	724	755	787	825	876	957
Extremadura	271	277	284	292	304	322
Galicia	213	228	244	259	275	294
Madrid	5586	5936	6294	6707	7219	7973
Melilla	2	2	2	3	3	3
Murcia	85	87	90	93	98	106
Navarra	206	217	229	243	261	289
País.Vasco	635	665	698	736	787	867
La.Rioja	177	188	200	212	227	247

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	14555	15054	15458	15709	15839	15762
Andalucía	605	644	684	706	761	782
Aragón	349	363	368	376	385	385
Asturias	102	109	118	122	133	142
Islas.Baleares	89	89	89	89	89	89
Canarias	91	92	93	91	91	91
Cantabria	92	92	92	92	92	92
Castilla.La.Mancha	1255	1320	1359	1414	1411	1377
Castilla.y.León	1028	1034	1028	1028	1028	1028
Cataluña	3041	3041	3041	3041	3041	3041
Ceuta	4	5	7	9	11	12
Comunidad.Valenciana	724	753	786	796	842	866
Extremadura	271	271	271	271	271	271
Galicia	213	220	221	222	227	222
Madrid	5586	5879	6202	6441	6657	6881
Melilla	2	2	2	2	2	2
Murcia	85	85	85	85	85	85
Navarra	206	207	206	206	206	206
País.Vasco	635	669	720	741	782	821
La.Rioja	177	189	203	211	221	226

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.057	0.034	0.062	0.080	0.084	0.072
Andalucía	0.099	0.056	0.111	0.157	0.195	0.220
Aragón	0.095	0.064	0.126	0.172	0.203	0.220
Asturias	0.079	0.053	0.110	0.164	0.208	0.242
Islas.Baleares	0.058	0.016	0.015	0.000	0.000	0.000
Canarias	0.041	0.023	0.037	0.029	0.013	0.000
Cantabria	0.088	0.035	0.058	0.044	0.027	0.006
Castilla.La.Mancha	0.061	0.049	0.096	0.139	0.170	0.188
Castilla.y.León	0.068	0.034	0.059	0.070	0.056	0.012
Cataluña	0.052	0.000	0.000	0.000	0.000	0.000
Ceuta	0.195	0.210	0.468	0.780	1.053	1.312
Comunidad.Valenciana	0.066	0.044	0.084	0.104	0.121	0.133
Extremadura	0.074	0.007	0.000	0.000	0.000	0.000
Galicia	0.075	0.047	0.085	0.099	0.112	0.114
Madrid	0.044	0.035	0.069	0.098	0.119	0.134
Melilla	0.008	0.000	0.000	0.000	0.000	0.000
Murcia	0.126	0.010	0.000	0.000	0.000	0.000
Navarra	0.052	0.025	0.041	0.043	0.019	0.000
País.Vasco	0.075	0.054	0.111	0.157	0.198	0.239
La.Rioja	0.099	0.057	0.117	0.172	0.216	0.245

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	0.057	0.061	0.122	0.191	0.272	0.390
Andalucía	0.099	0.064	0.127	0.198	0.281	0.400
Aragón	0.095	0.061	0.129	0.191	0.257	0.333
Asturias	0.079	0.047	0.112	0.191	0.327	0.525
Islas.Baleares	0.058	0.038	0.090	0.154	0.265	0.448
Canarias	0.041	0.042	0.093	0.155	0.250	0.405
Cantabria	0.088	0.024	0.049	0.078	0.117	0.173
Castilla.La.Mancha	0.061	0.079	0.159	0.239	0.321	0.420
Castilla.y.León	0.068	0.059	0.118	0.182	0.252	0.346
Cataluña	0.052	0.065	0.131	0.204	0.287	0.406
Ceuta	0.195	0.102	0.276	0.491	0.604	0.741
Comunidad.Valenciana	0.066	0.043	0.087	0.139	0.210	0.321
Extremadura	0.074	0.023	0.047	0.077	0.120	0.186
Galicia	0.075	0.071	0.144	0.215	0.289	0.377
Madrid	0.044	0.063	0.127	0.201	0.292	0.427
Melilla	0.008	0.072	0.148	0.232	0.336	0.474
Murcia	0.126	0.028	0.060	0.098	0.155	0.246
Navarra	0.052	0.054	0.111	0.178	0.266	0.400
País.Vasco	0.075	0.047	0.098	0.158	0.239	0.365
La.Rioja	0.099	0.064	0.128	0.199	0.279	0.392

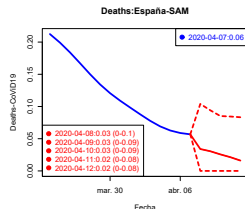
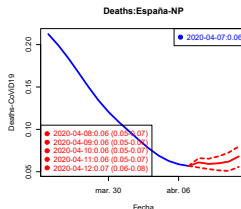
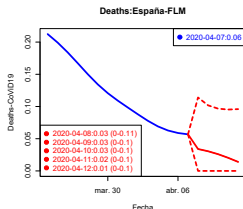
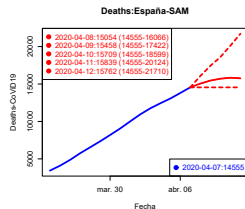
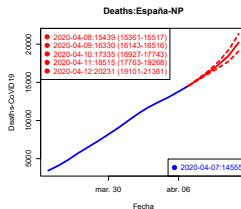
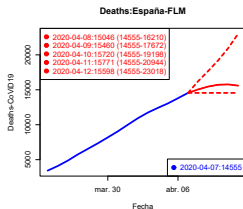
Table: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.057	0.034	0.062	0.079	0.088	0.083
Andalucía	0.099	0.064	0.130	0.166	0.257	0.293
Aragón	0.095	0.039	0.054	0.078	0.102	0.104
Asturias	0.079	0.069	0.158	0.195	0.304	0.390
Islas.Baleares	0.058	0.000	0.000	0.000	0.000	0.000
Canarias	0.041	0.013	0.016	0.000	0.000	0.000
Cantabria	0.088	0.000	0.000	0.000	0.000	0.000
Castilla.La.Mancha	0.061	0.052	0.083	0.127	0.124	0.097
Castilla.y.León	0.068	0.006	0.000	0.000	0.000	0.000
Cataluña	0.052	0.000	0.000	0.000	0.000	0.000
Ceuta	0.195	0.254	0.585	0.980	1.309	1.659
Comunidad.Valenciana	0.066	0.040	0.086	0.100	0.163	0.196
Extremadura	0.074	0.000	0.000	0.000	0.000	0.000
Galicia	0.075	0.034	0.038	0.041	0.066	0.041
Madrid	0.044	0.052	0.110	0.153	0.192	0.232
Melilla	0.008	0.000	0.000	0.000	0.000	0.000
Murcia	0.126	0.000	0.000	0.000	0.000	0.000
Navarra	0.052	0.003	0.000	0.000	0.000	0.000
País.Vasco	0.075	0.054	0.133	0.167	0.231	0.292
La.Rioja	0.099	0.065	0.148	0.194	0.245	0.274

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

Fallecidos: España

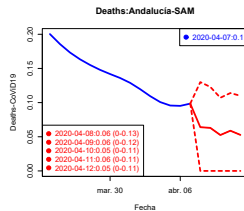
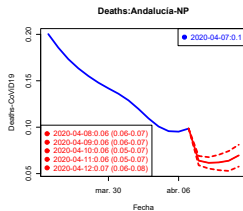
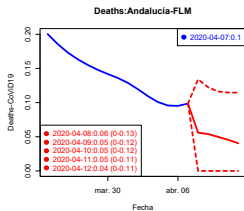
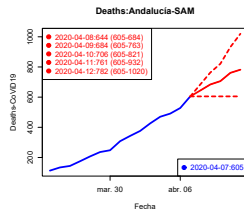
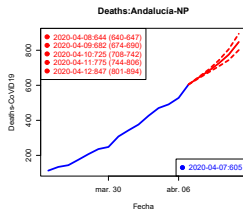
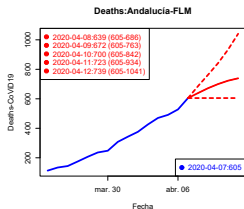


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

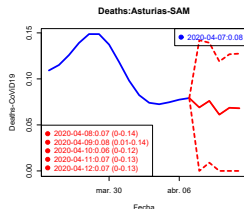
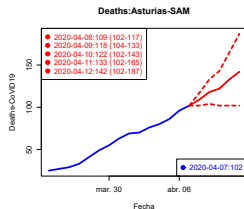
Fallecidos: Andalucía



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

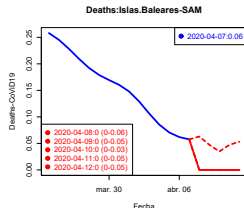
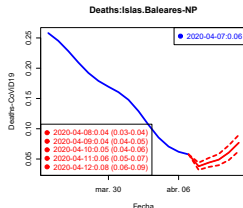
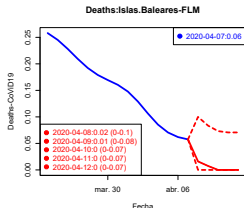
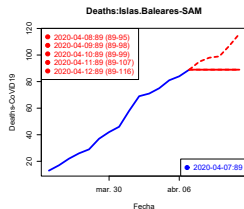
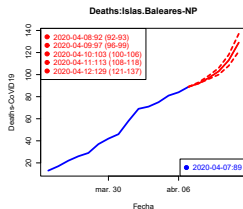
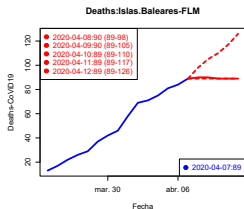
◀ Confirmados

◀ Fallecidos



◀ Confirmados ▶ Fallecidos

Fallecidos: Islas Baleares

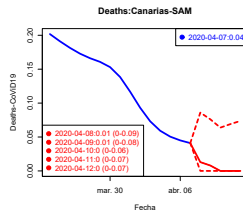
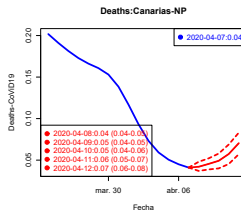
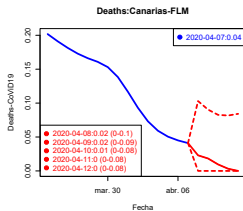
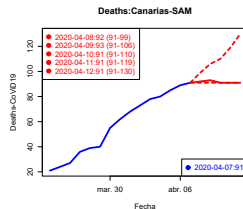
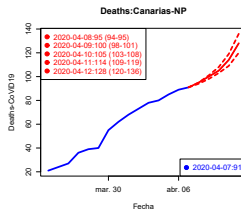
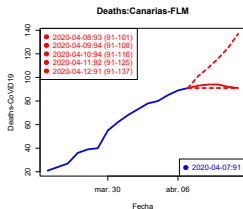


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

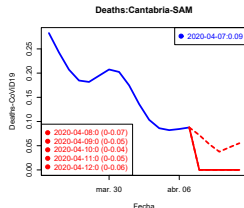
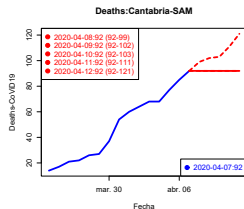
Fallecidos: Canarias



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

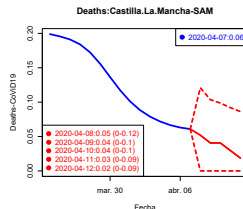
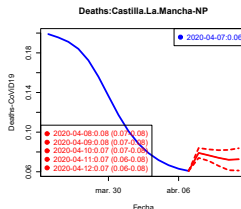
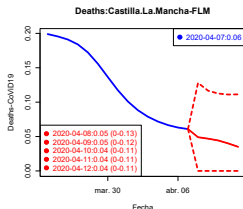
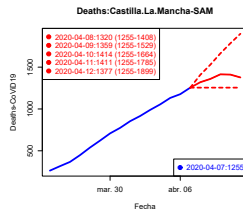
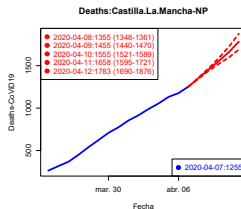
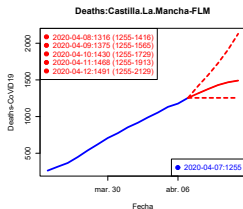
◀ Confirmados

◀ Fallecidos



◀ Confirmados ◀ Fallecidos

Fallecidos: Castilla-La Mancha

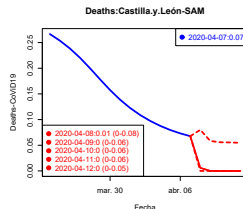
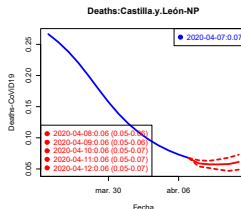
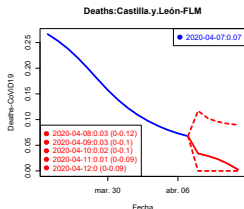
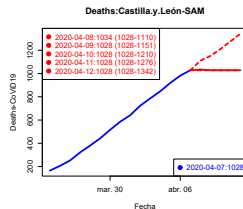
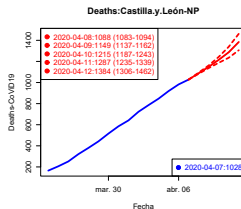
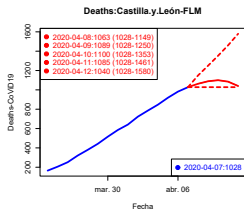


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

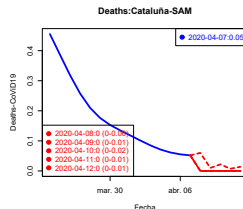
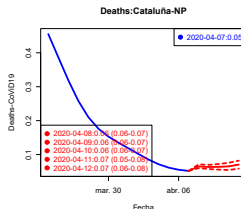
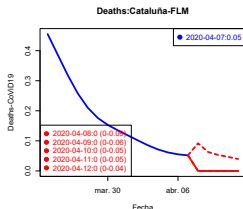
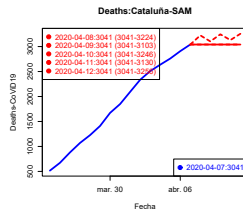
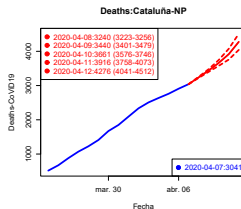
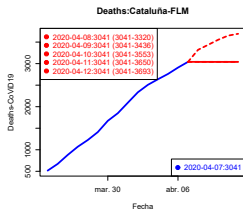


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cataluña

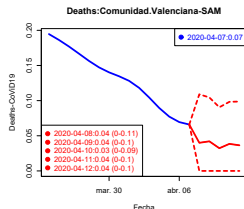
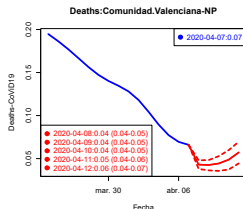
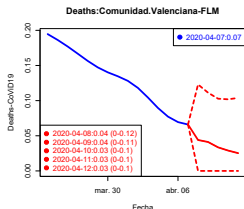
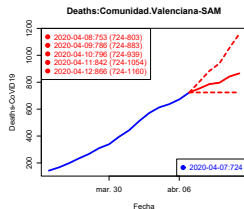
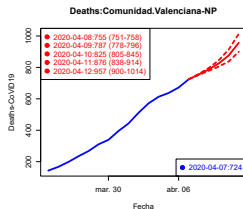
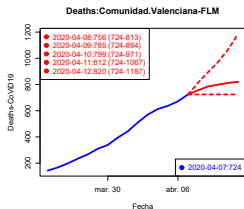


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

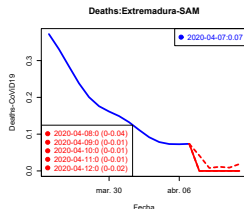
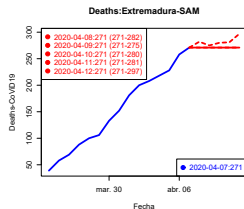
Fallecidos: C. Valenciana



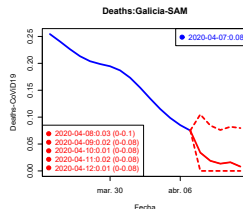
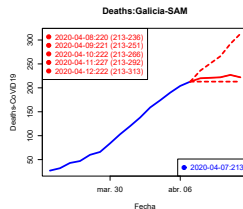
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

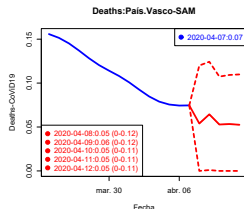
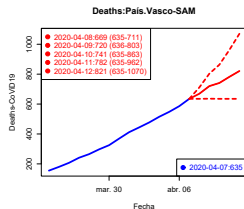
◀ Fallecidos



◀ Confirmados ◀ Fallecidos

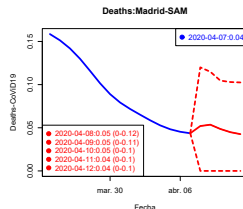
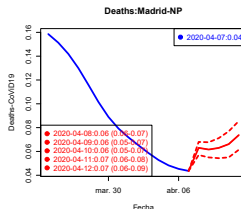
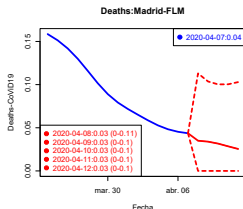
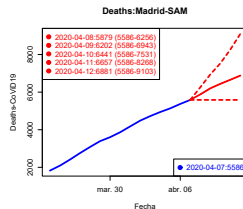
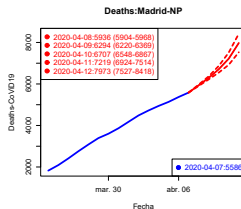
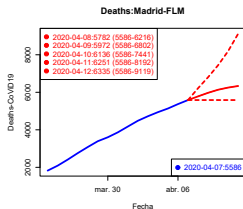


◀ Confirmados ◀ Fallecidos



◀ Confirmados ▶ Fallecidos

Fallecidos: Madrid

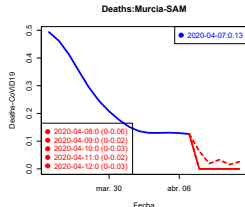
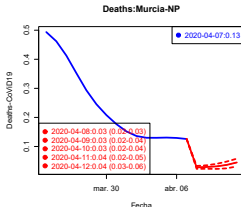
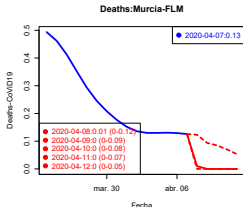
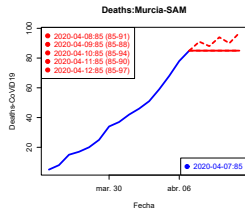
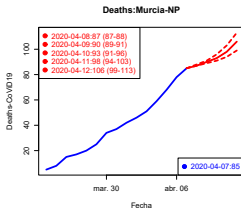
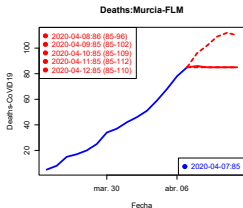


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Murcia

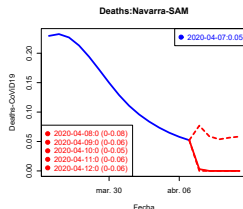
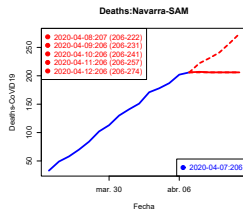


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

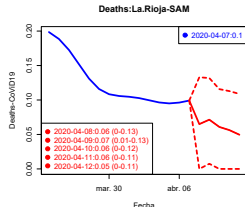
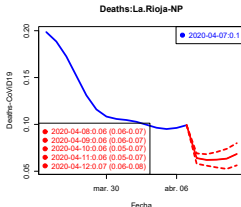
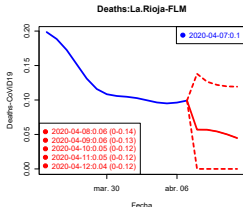
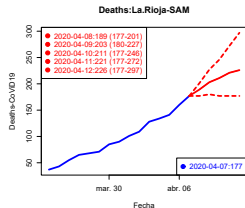
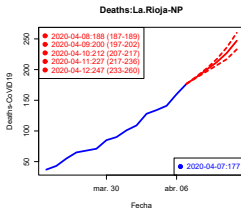
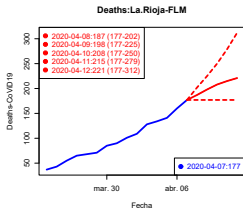
◀ Fallecidos

○○



◀ Confirmados

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.