

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

3 Panorama internacional

Datos

Aplicación Shiny disponible en

<http://modestya.securized.net/covid19prediction/>

Número de datos funcionales: 3127

Países/Regiones distintos incorporados: 164

Predicciones:

- ▶ España
- ▶ Andalucía
- ▶ Aragón
- ▶ Asturias
- ▶ I. Baleares
- ▶ 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

	σ_R^2			$\sigma_R^2(rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0	0	0	0	0	0	0.666	0.791	0.677
H2	0.002	0.001	0.002	0.002	0.001	0.002	0.682	0.85	0.698
H3	0.004	0.002	0.003	0.003	0.002	0.003	0.744	0.87	0.753
H4	0.007	0.004	0.007	0.006	0.004	0.006	0.743	0.871	0.75
H5	0.01	0.006	0.01	0.01	0.007	0.01	0.756	0.877	0.764

Último dato: 2020-05-16 21:00 que se publica 2020-05-17 12:00.

Tabla Previsión Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	277719	279575	281150	282918	284674	286075
Andalucía	16432	16595	16765	16949	17149	17336
Aragón	7177	7246	7318	7397	7483	7559
Asturias	3344	3367	3389	3413	3438	3459
Islas.Baleares	2096	2106	2115	2124	2134	2142
Canarias	2289	2297	2303	2309	2314	2316
Cantabria	2773	2787	2799	2814	2830	2839
Castilla.La.Mancha	24908	25093	25249	25424	25604	25752
Castilla.y.León	24696	24829	24912	25019	25120	25179
Cataluña	57467	57886	58144	58423	58599	58731
Ceuta	175	176	176	177	178	178
Comunidad.Valenciana	14680	14810	14941	15081	15236	15378
Extremadura	3948	3958	3961	3968	3974	3974
Galicia	10960	11060	11168	11280	11410	11532
Madrid	71631	71917	72144	72418	72689	72840
Melilla	134	135	135	135	136	136
Murcia	2566	2601	2641	2685	2736	2779
Navarra	8293	8395	8508	8644	8794	8921
País.Vasco	18733	18898	19064	19243	19442	19625
La.Rioja	5417	5431	5438	5448	5456	5456

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

Tabla Ratio Incr. Confirmados: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.006	0.007	0.012	0.019	0.025	0.030
Andalucía	0.012	0.010	0.020	0.031	0.044	0.055
Aragón	0.011	0.010	0.020	0.031	0.043	0.053
Asturias	0.007	0.007	0.013	0.021	0.028	0.034
Islas.Baleares	0.005	0.005	0.009	0.013	0.018	0.022
Canarias	0.002	0.004	0.006	0.009	0.011	0.012
Cantabria	0.004	0.005	0.009	0.015	0.020	0.024
Castilla.La.Mancha	0.007	0.007	0.014	0.021	0.028	0.034
Castilla.y.León	0.004	0.005	0.009	0.013	0.017	0.020
Cataluña	0.003	0.007	0.012	0.017	0.020	0.022
Ceuta	0.002	0.004	0.007	0.012	0.018	0.019
Comunidad.Valenciana	0.011	0.009	0.018	0.027	0.038	0.048
Extremadura	0.002	0.003	0.003	0.005	0.007	0.007
Galicia	0.012	0.009	0.019	0.029	0.041	0.052
Madrid	0.003	0.004	0.007	0.011	0.015	0.017
Melilla	0.005	0.004	0.008	0.010	0.013	0.016
Murcia	0.017	0.014	0.029	0.046	0.066	0.083
Navarra	0.016	0.012	0.026	0.042	0.060	0.076
País.Vasco	0.011	0.009	0.018	0.027	0.038	0.048
La.Rioja	0.001	0.003	0.004	0.006	0.007	0.007

Cuadro: Previsión Ratio Incr. Confirmados: Mod. lineal - Horizonte 1 – 5 días.

Tabla Ratio Incr. Confirmados: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	0.006	0.004	0.008	0.013	0.017	0.021
Andalucía	0.012	0.006	0.011	0.016	0.021	0.027
Aragón	0.011	0.006	0.011	0.017	0.022	0.027
Asturias	0.007	0.004	0.008	0.012	0.016	0.020
Islas.Baleares	0.005	0.003	0.005	0.008	0.010	0.013
Canarias	0.002	0.002	0.004	0.007	0.009	0.011
Cantabria	0.004	0.003	0.006	0.009	0.012	0.015
Castilla.La.Mancha	0.007	0.006	0.012	0.018	0.024	0.030
Castilla.y.León	0.004	0.006	0.012	0.018	0.023	0.029
Cataluña	0.003	0.005	0.009	0.013	0.017	0.022
Ceuta	0.002	0.006	0.011	0.016	0.021	0.027
Comunidad.Valenciana	0.011	0.006	0.011	0.017	0.022	0.028
Extremadura	0.002	0.003	0.006	0.009	0.011	0.015
Galicia	0.012	0.005	0.009	0.014	0.018	0.023
Madrid	0.003	0.003	0.005	0.008	0.010	0.013
Melilla	0.005	0.003	0.005	0.008	0.010	0.013
Murcia	0.017	0.011	0.022	0.033	0.044	0.054
Navarra	0.016	0.011	0.021	0.032	0.043	0.053
País.Vasco	0.011	0.006	0.011	0.016	0.021	0.027
La.Rioja	0.001	0.002	0.004	0.007	0.009	0.011

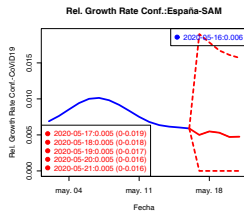
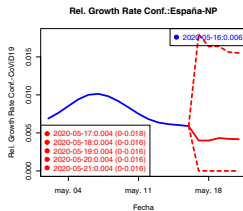
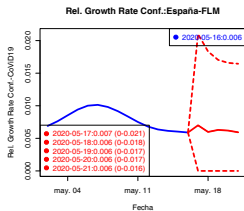
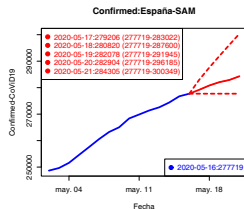
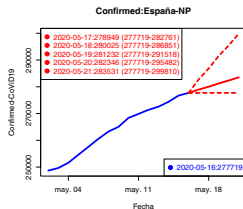
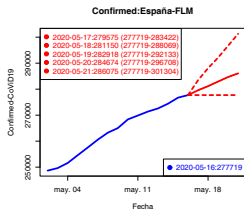
Cuadro: Previsión Ratio Incr. Confirmados: Mod. No Paramétrico - Horizonte 1
– 5 días.

Tabla Ratio Incr. Confirmados: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.006	0.005	0.011	0.016	0.019	0.024
Andalucía	0.012	0.009	0.019	0.029	0.038	0.048
Aragón	0.011	0.009	0.018	0.028	0.037	0.047
Asturias	0.007	0.006	0.011	0.017	0.022	0.028
Islas.Baleares	0.005	0.003	0.007	0.011	0.014	0.018
Canarias	0.002	0.002	0.004	0.006	0.007	0.010
Cantabria	0.004	0.004	0.007	0.012	0.016	0.019
Castilla.La.Mancha	0.007	0.006	0.012	0.017	0.019	0.025
Castilla.y.León	0.004	0.004	0.007	0.009	0.009	0.011
Cataluña	0.003	0.006	0.012	0.013	0.014	0.013
Ceuta	0.002	0.003	0.007	0.010	0.013	0.015
Comunidad.Valenciana	0.011	0.008	0.015	0.023	0.030	0.039
Extremadura	0.002	0.001	0.002	0.001	0.001	0.002
Galicia	0.012	0.008	0.016	0.026	0.034	0.045
Madrid	0.003	0.003	0.005	0.008	0.011	0.014
Melilla	0.005	0.003	0.005	0.009	0.011	0.016
Murcia	0.017	0.013	0.027	0.043	0.059	0.077
Navarra	0.016	0.011	0.025	0.039	0.054	0.068
País.Vasco	0.011	0.007	0.016	0.024	0.030	0.040
La.Rioja	0.001	0.001	0.002	0.003	0.004	0.006

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

Confirmados: España



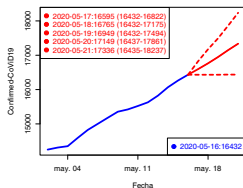
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

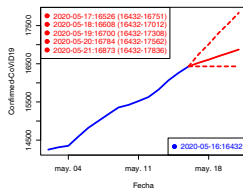
◀ Fallecidos

Confirmados: Andalucía

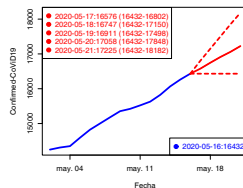
Confirmed:Andalucía-FLM



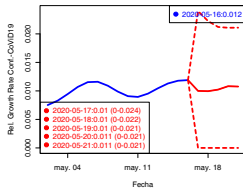
Confirmed:Andalucía-NP



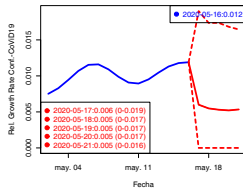
Confirmed:Andalucía-SAM



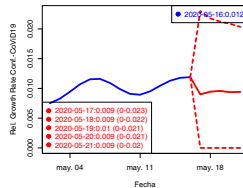
Rel. Growth Rate Conf.:Andalucia-FLM



Rel. Growth Rate Conf.:Andalucia-NP



Rel. Growth Rate Conf.:Andalucia-SAM

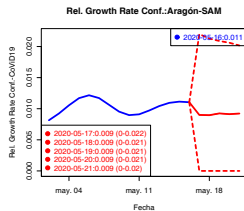
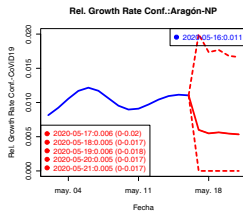
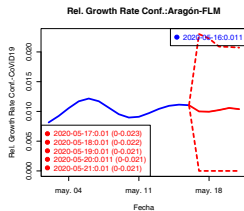
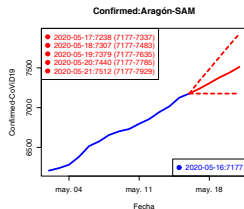
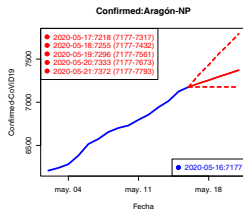
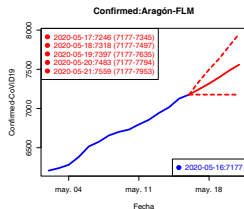


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

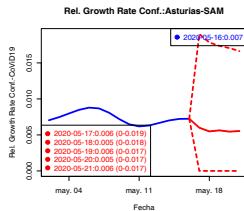
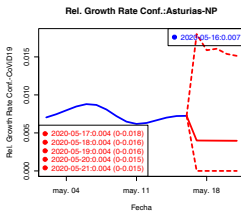
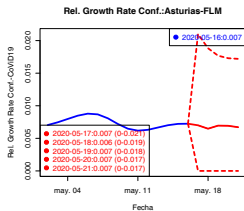
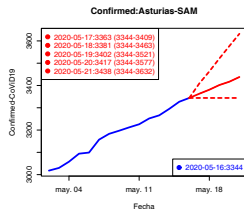
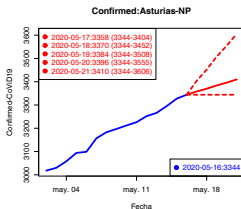
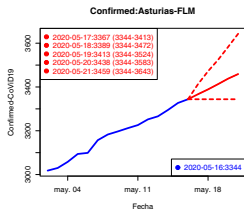


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Asturias

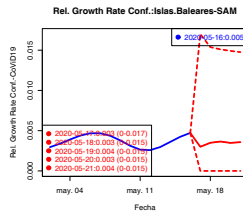
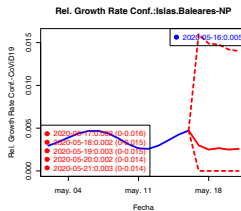
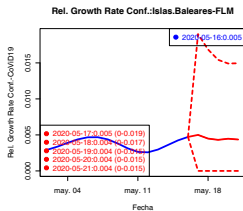
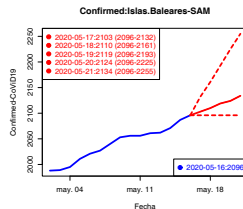
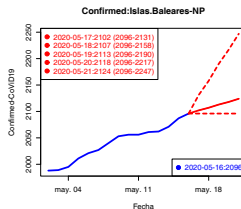
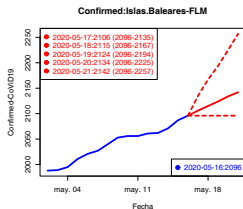


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

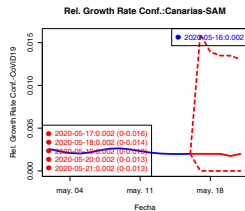
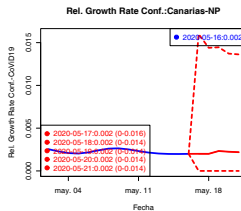
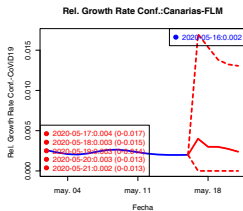
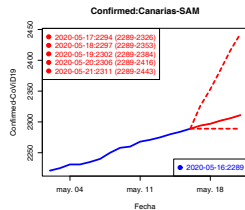
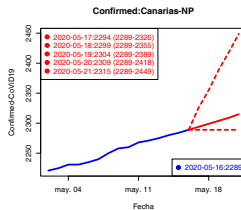
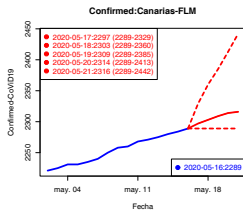


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

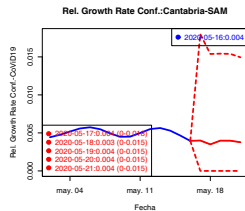
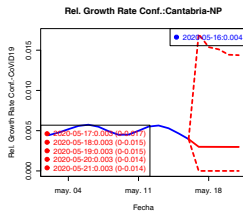
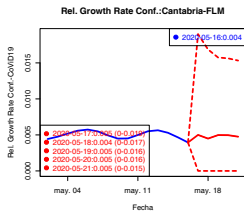
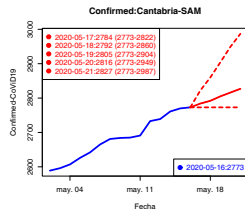
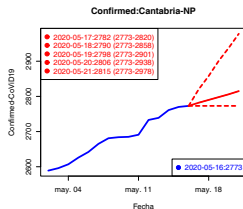
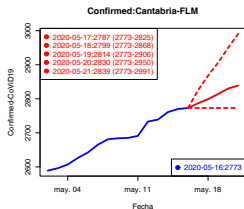


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria



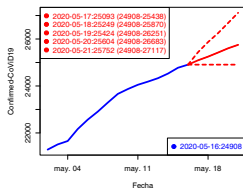
Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

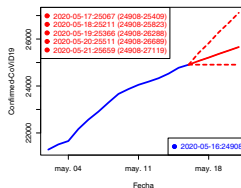
◀ Fallecidos

Confirmados: Castilla-La Mancha

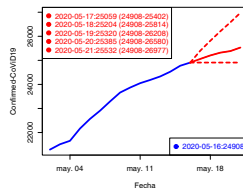
Confirmed:Castilla.La.Mancha-FLM



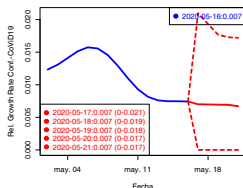
Confirmed:Castilla.La.Mancha-NP



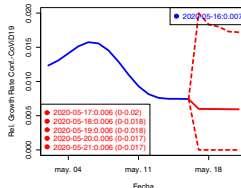
Confirmed:Castilla.La.Mancha-SAM



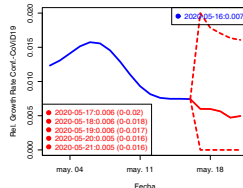
Rel. Growth Rate Conf.:Castilla.La.Mancha-FLM



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



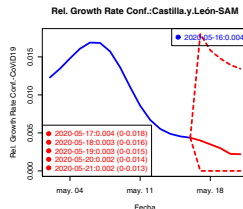
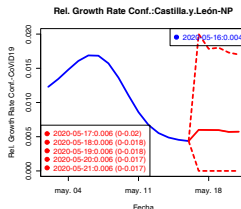
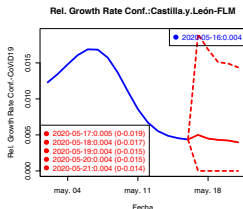
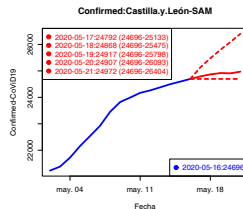
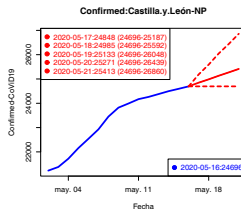
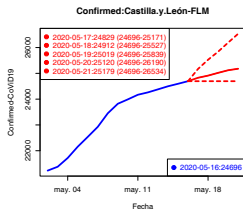
Rel. Growth Rate Conf.:Castilla.La.Mancha-SAM



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

[← Confirmados](#)
[← Fallecidos](#)

Confirmados: Castilla y León

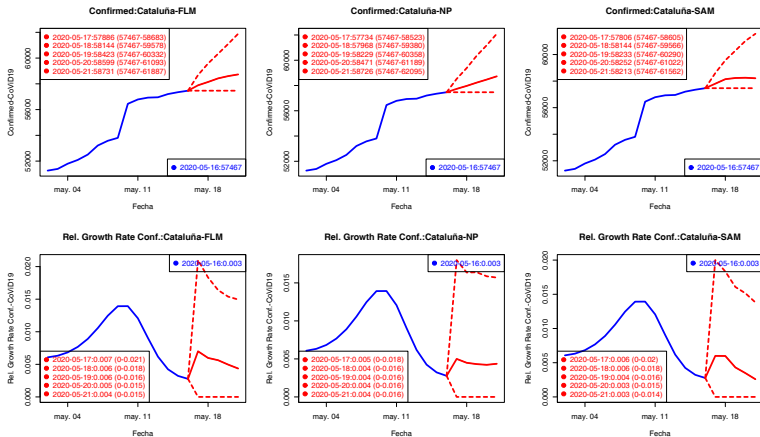


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña

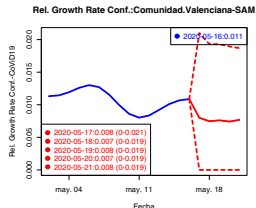
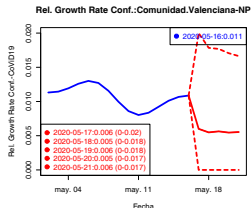
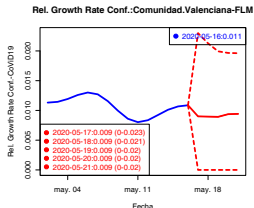
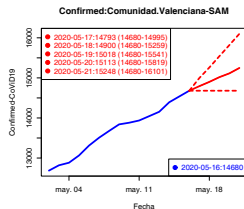
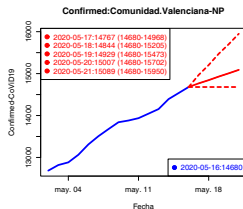
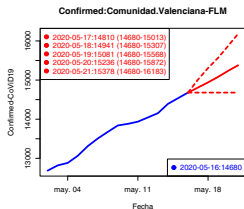


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: C. Valenciana

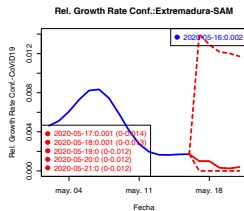
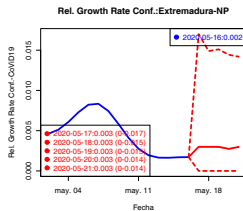
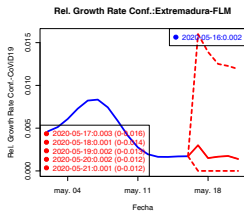
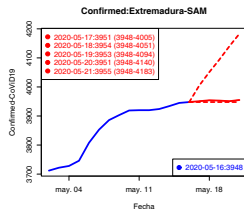
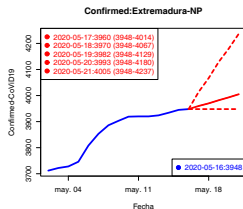
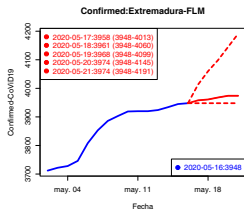


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura



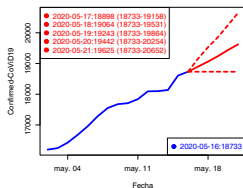
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

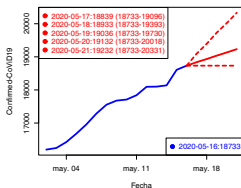
◀ Fallecidos

Confirmados: País Vasco

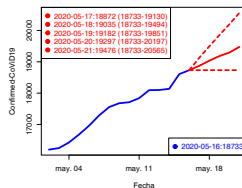
Confirmed:País.Vasco-FLM



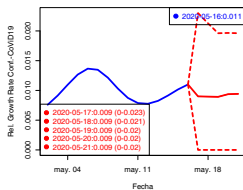
Confirmed:País.Vasco-NP



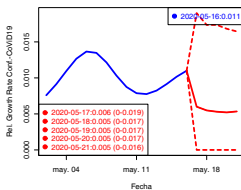
Confirmed:País.Vasco-SAM



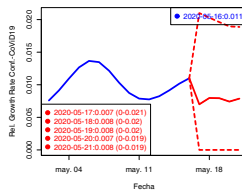
Rel. Growth Rate Conf.:País.Vasco-FLM



Rel. Growth Rate Conf.:País.Vasco-NP



Rel. Growth Rate Conf.:País.Vasco-SAM

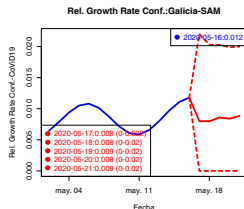
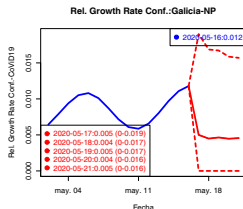
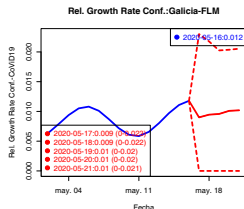
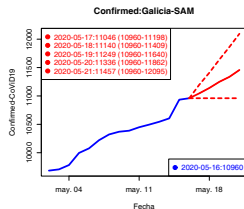
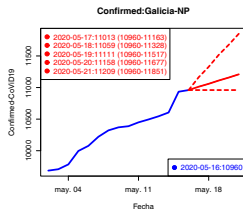
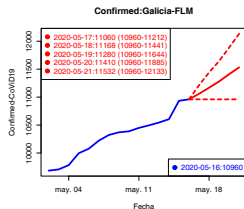


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Galicia

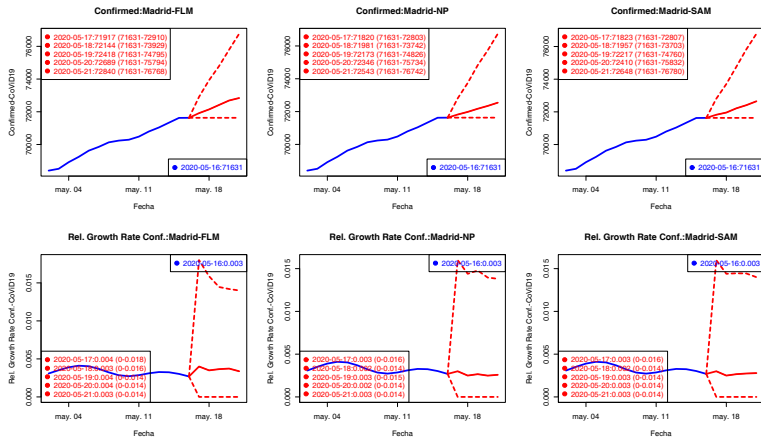


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

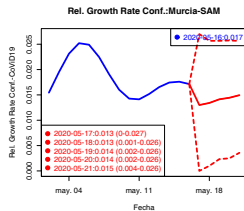
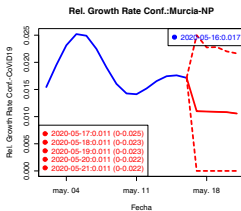
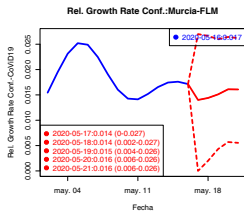
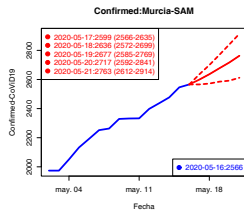
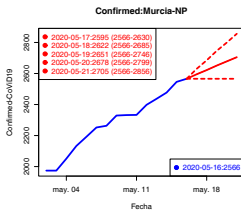
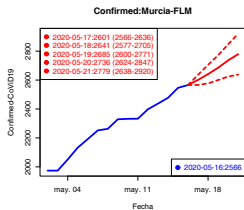


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

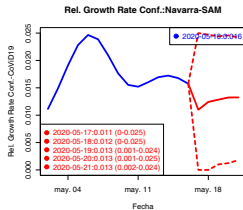
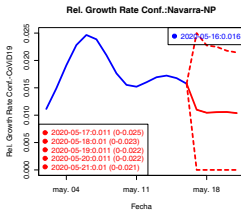
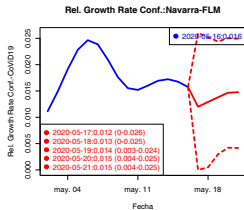
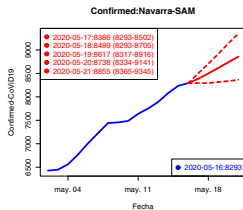
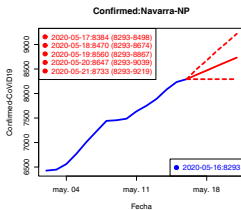
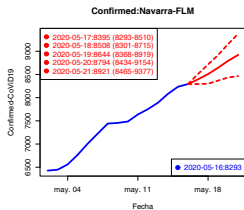


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Navarra

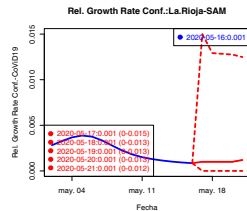
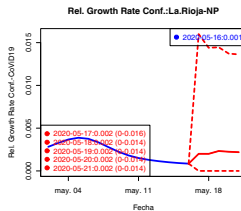
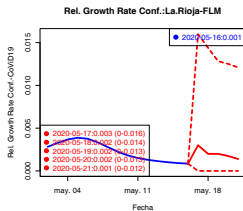
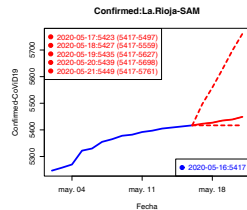
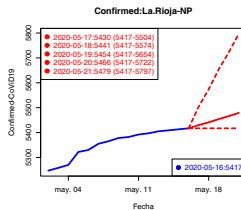
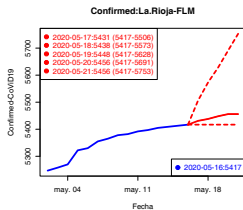


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: La Rioja



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

◀ Confirmados

◀ Fallecidos

Table of Contents

- 1 Casos Confirmados
 - Predicciones
- 2 Fallecidos
 - Predicciones Fallecidos
- 3 Panorama internacional

Modelos para fallecidos por CoViD-19

Número de datos funcionales: 3643

Países/Regiones distintos incorporados: 85

Predicciones:

▶ España

► Andalucía

► Aragón

▶ Asturias

► I. Balears

► **Canarias**

► **Cantabria**

► **Castilla-La Mancha**

▶ Castilla y León

► **Cataluña**

► C. Valenciana

▶ Extremadura

▶ País Vasco

▶ Galicia

▶ Madrid

▶ Murcia

▶ Navarra

► La Rioja

► Mod Lineal

▶ Mod NP

► Mod Aditivo

	σ_R^2			$\sigma_R^2(rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0.001	0.001	0.001	0	0	0	0.584	0.58	0.634
H2	0.002	0.002	0.002	0.002	0.002	0.001	0.629	0.621	0.706
H3	0.003	0.004	0.003	0.003	0.003	0.003	0.705	0.689	0.775
H4	0.005	0.006	0.004	0.007	0.007	0.005	0.737	0.711	0.803
H5	0.007	0.008	0.005	0.009	0.01	0.006	0.767	0.734	0.836

Tabla Previsión Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	27650	27818	27987	28108	28225	28328
Andalucía	1358	1365	1373	1379	1385	1392
Aragón	838	841	845	848	851	854
Asturias	315	318	320	322	325	327
Islas Baleares	218	220	221	222	224	225
Canarias	151	152	152	153	153	153
Cantabria	207	208	209	210	210	211
Castilla La Mancha	2893	2913	2934	2948	2962	2974
Castilla y León	1946	1955	1963	1967	1970	1973
Cataluña	5944	5998	6053	6099	6140	6178
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1366	1374	1381	1387	1393	1399
Extremadura	500	503	506	508	511	513
Galicia	606	609	611	612	614	616
Madrid	8847	8889	8931	8957	8981	8999
Melilla	2	2	2	2	2	2
Murcia	144	145	146	147	147	148
Navarra	503	506	508	510	512	515
País Vasco	1459	1468	1476	1481	1488	1493
La Rioja	349	350	351	352	352	353

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	27650	27979	28304	28621	28921	29225
Andalucía	1358	1374	1390	1405	1419	1434
Aragón	838	848	858	868	877	886
Asturias	315	319	323	326	330	333
Islas Baleares	218	221	223	226	228	231
Canarias	151	153	155	156	158	160
Cantabria	207	209	212	214	216	219
Castilla La Mancha	2893	2928	2964	2998	3031	3064
Castilla y León	1946	1969	1991	2014	2034	2056
Cataluña	5944	6018	6092	6163	6232	6300
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1366	1382	1398	1413	1428	1443
Extremadura	500	506	512	517	523	528
Galicia	606	613	620	627	633	640
Madrid	8847	8950	9050	9149	9240	9335
Melilla	2	2	2	2	2	2
Murcia	144	146	147	149	151	152
Navarra	503	509	515	521	526	532
País Vasco	1459	1476	1494	1511	1526	1543
La Rioja	349	353	357	361	364	368

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

Tabla Previsión Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	27650	27887	27943	28240	28364	28666
Andalucía	1358	1371	1378	1394	1399	1417
Aragón	838	843	847	855	858	866
Asturias	315	318	320	324	326	330
Islas Baleares	218	220	221	224	225	227
Canarias	151	152	152	154	154	155
Cantabria	207	209	210	212	212	214
Castilla-La Mancha	2893	2914	2918	2945	2958	2982
Castilla y León	1946	1957	1951	1964	1965	1979
Cataluña	5944	5999	6020	6091	6167	6250
Ceuta	4	4	4	4	4	4
Comunidad Valenciana	1366	1379	1384	1399	1403	1419
Extremadura	500	504	503	509	510	516
Galicia	606	612	615	621	622	628
Madrid	8847	8921	8938	9029	9042	9134
Melilla	2	2	2	2	2	2
Murcia	144	146	146	148	149	151
Navarra	503	508	509	515	518	525
País Vasco	1459	1471	1475	1491	1496	1511
La Rioja	349	351	351	355	354	358

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

	Last	H1	H2	H3	H4	H5
España	0.004	0.006	0.012	0.017	0.021	0.025
Andalucía	0.005	0.005	0.011	0.015	0.020	0.025
Aragón	0.002	0.004	0.009	0.012	0.016	0.020
Asturias	0.007	0.008	0.017	0.024	0.031	0.037
Islas.Baleares	0.005	0.007	0.015	0.020	0.027	0.032
Canarias	0.000	0.004	0.008	0.010	0.012	0.014
Cantabria	0.003	0.005	0.010	0.013	0.016	0.018
Castilla.La.Mancha	0.005	0.007	0.014	0.019	0.024	0.028
Castilla.y.León	0.004	0.005	0.009	0.011	0.013	0.014
Cataluña	0.009	0.009	0.018	0.026	0.033	0.039
Ceuta	0.000	0.002	0.003	0.003	0.002	0.001
Comunidad.Valenciana	0.004	0.006	0.011	0.015	0.020	0.024
Extremadura	0.006	0.006	0.012	0.017	0.021	0.025
Galicia	0.002	0.004	0.008	0.011	0.013	0.016
Madrid	0.003	0.005	0.010	0.012	0.015	0.017
Melilla	0.000	0.002	0.004	0.005	0.005	0.004
Murcia	0.004	0.007	0.013	0.018	0.023	0.029
Navarra	0.004	0.006	0.010	0.014	0.019	0.023
País.Vasco	0.003	0.006	0.012	0.015	0.020	0.023
La.Rioja	0.001	0.003	0.007	0.008	0.009	0.010

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

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

	Last	H1	H2	H3	H4	H5
España	0.004	0.012	0.024	0.035	0.046	0.057
Andalucía	0.005	0.012	0.023	0.035	0.045	0.056
Aragón	0.002	0.012	0.024	0.035	0.046	0.058
Asturias	0.007	0.012	0.024	0.036	0.047	0.058
Islas.Baleares	0.005	0.012	0.024	0.035	0.046	0.057
Canarias	0.000	0.012	0.023	0.035	0.045	0.056
Cantabria	0.003	0.012	0.023	0.034	0.045	0.055
Castilla.La.Mancha	0.005	0.012	0.025	0.036	0.048	0.059
Castilla.y.León	0.004	0.012	0.023	0.035	0.045	0.056
Cataluña	0.009	0.012	0.025	0.037	0.048	0.060
Ceuta	0.000	0.011	0.022	0.032	0.042	0.052
Comunidad.Valenciana	0.004	0.012	0.023	0.035	0.045	0.056
Extremadura	0.006	0.012	0.023	0.035	0.045	0.056
Galicia	0.002	0.012	0.023	0.034	0.045	0.056
Madrid	0.003	0.012	0.023	0.034	0.044	0.055
Melilla	0.000	0.011	0.022	0.032	0.042	0.052
Murcia	0.004	0.012	0.023	0.035	0.045	0.056
Navarra	0.004	0.012	0.024	0.035	0.046	0.057
País.Vasco	0.003	0.012	0.024	0.035	0.046	0.057
La.Rioja	0.001	0.011	0.022	0.034	0.044	0.054

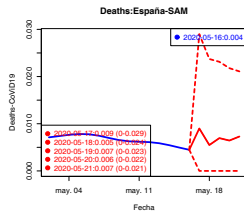
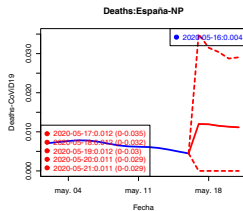
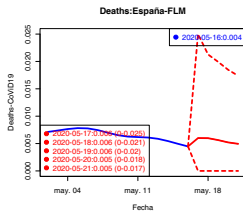
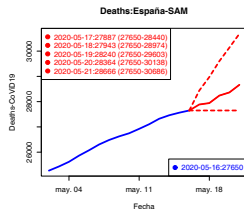
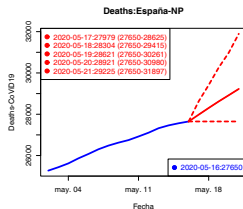
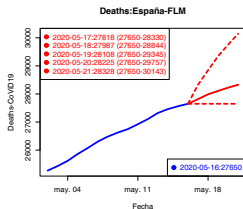
Cuadro: Previsión Ratio Incr. Fallecidos: Mod. No Paramétrico - Horizonte 1 – 5 días.

Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

	Last	H1	H2	H3	H4	H5
España	0.004	0.009	0.011	0.021	0.026	0.037
Andalucía	0.005	0.010	0.014	0.026	0.030	0.043
Aragón	0.002	0.006	0.011	0.021	0.023	0.033
Asturias	0.007	0.010	0.016	0.028	0.034	0.046
Islas.Baleares	0.005	0.008	0.013	0.025	0.030	0.041
Canarias	0.000	0.006	0.009	0.018	0.018	0.027
Cantabria	0.003	0.010	0.012	0.022	0.025	0.036
Castilla.La.Mancha	0.005	0.007	0.009	0.018	0.022	0.031
Castilla.y.León	0.004	0.006	0.003	0.009	0.010	0.017
Cataluña	0.009	0.009	0.013	0.025	0.038	0.052
Ceuta	0.000	0.006	0.000	0.007	0.003	0.011
Comunidad.Valenciana	0.004	0.009	0.013	0.024	0.027	0.039
Extremadura	0.006	0.007	0.007	0.018	0.021	0.031
Galicia	0.002	0.010	0.014	0.024	0.026	0.037
Madrid	0.003	0.008	0.010	0.021	0.022	0.032
Melilla	0.000	0.008	0.009	0.017	0.013	0.022
Murcia	0.004	0.011	0.016	0.028	0.035	0.048
Navarra	0.004	0.010	0.012	0.025	0.031	0.044
País.Vasco	0.003	0.008	0.011	0.022	0.026	0.036
La.Rioja	0.001	0.007	0.006	0.016	0.016	0.025

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

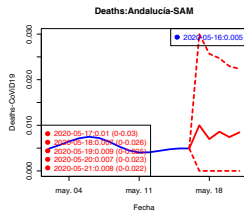
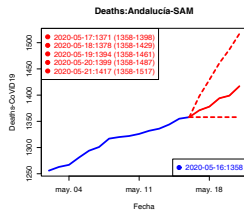
Fallecidos: España



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

◀ Confirmados

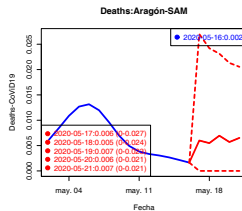
◀ Fallecidos



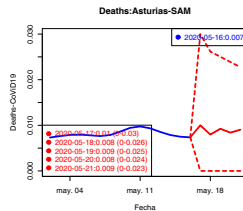
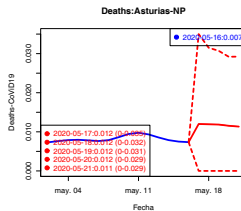
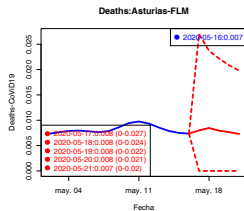
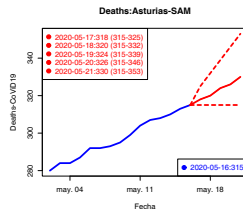
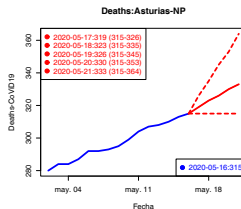
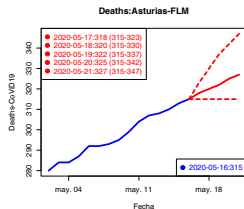
◀ Confirmados ◀ Fallecidos

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

◀ Fallecidos



Fallecidos: Asturias

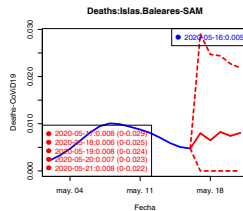
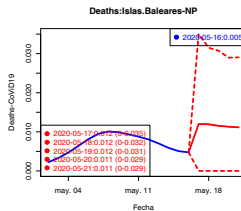
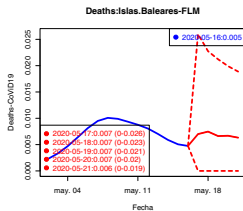
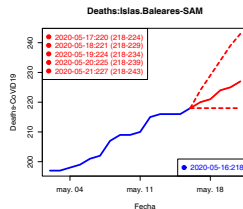
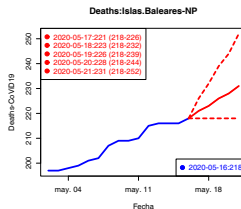
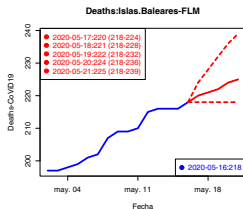


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Islas Baleares

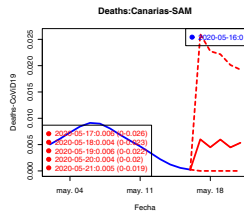
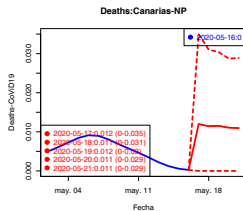
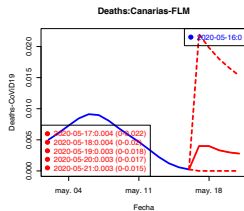
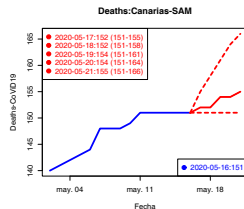
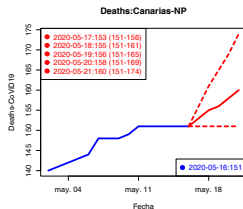
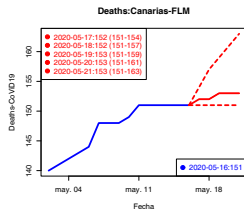


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Canarias

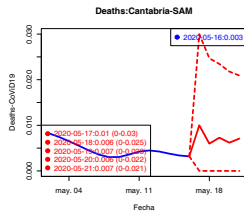
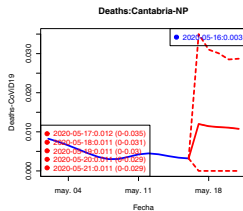
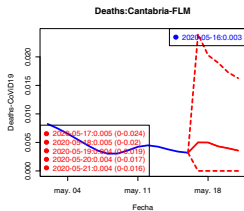
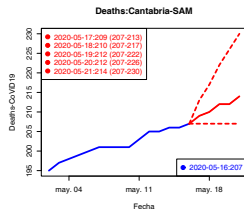
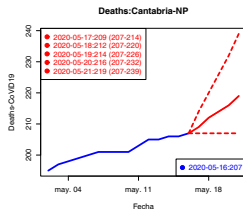
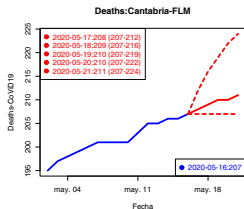


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

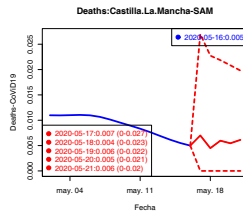
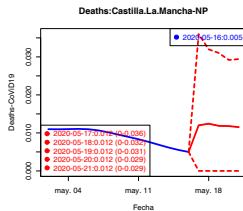
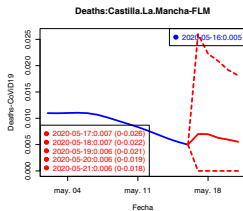
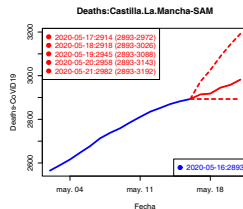
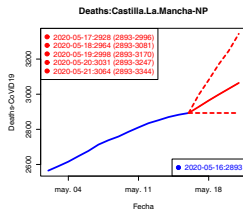
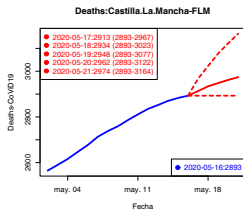
◀ Fallecidos

Fallecidos: Cantabria



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

Fallecidos: Castilla-La Mancha

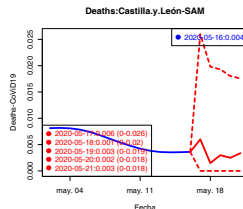
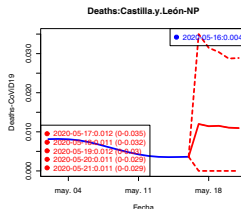
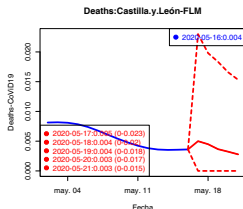
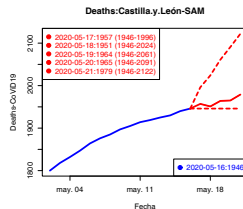
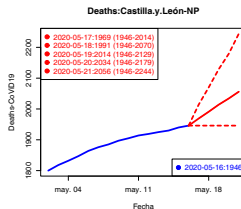
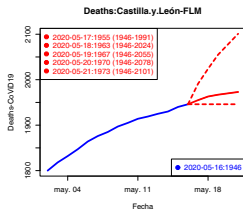


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

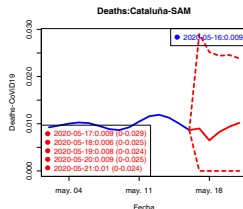
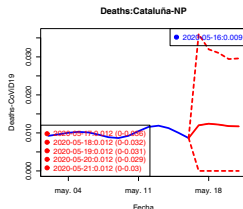
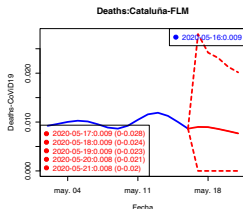
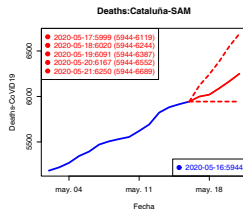
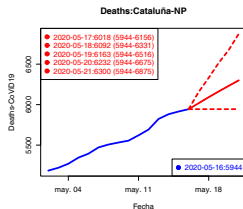
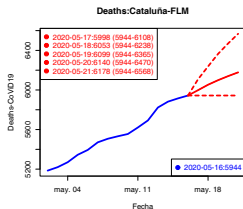


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Cataluña



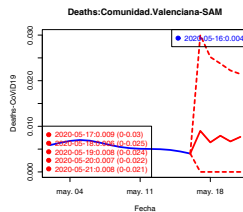
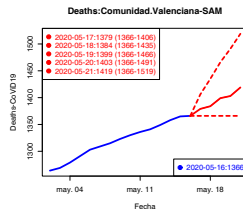
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

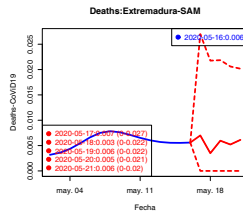
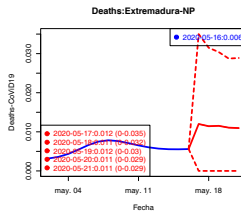
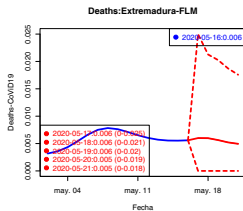
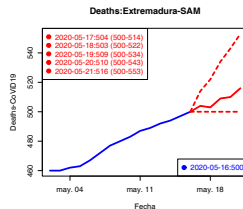
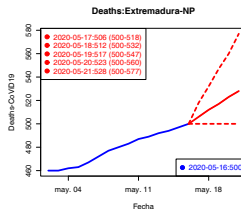
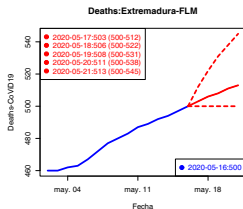
◀ Confirmados

◀ Fallecidos



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

Fallecidos: Extremadura



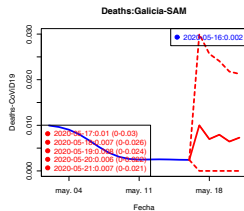
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

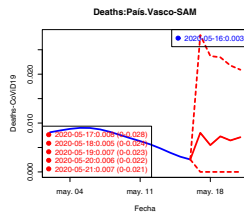
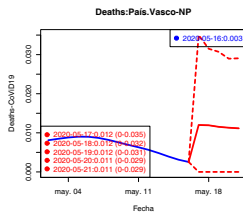
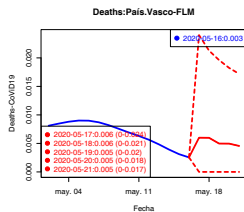
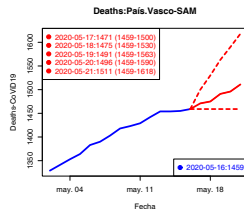
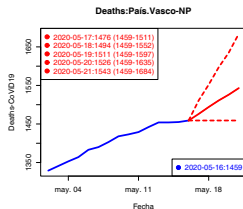
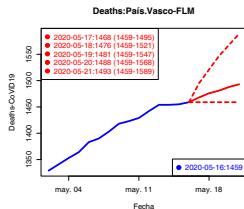
◀ Fallecidos

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

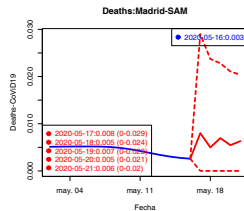
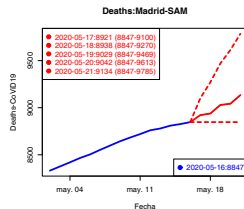
◀ Fallecidos



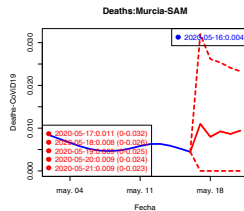
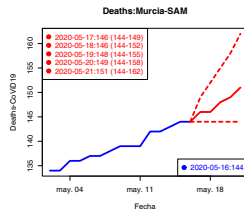
Fallecidos: País Vasco



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

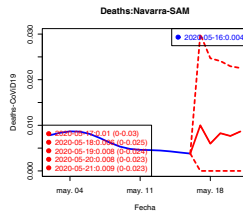
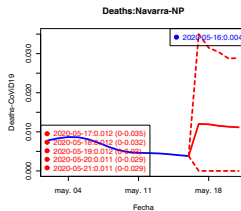
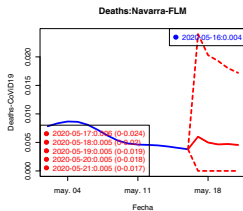
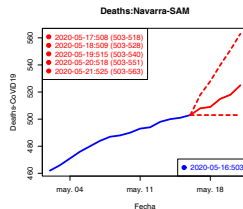
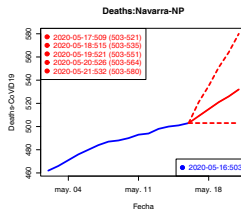
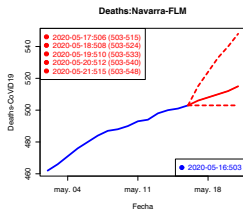


◀ Confirmados ▶ Fallecidos



◀ Confirmados ▶ Fallecidos

Fallecidos: Navarra

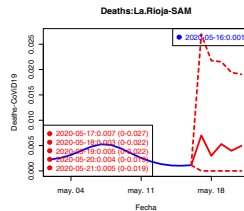
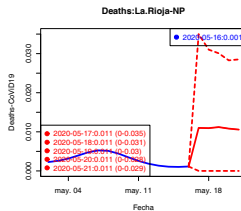
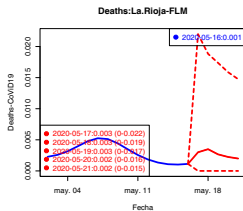
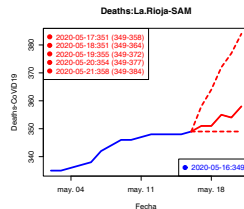
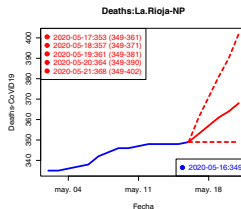
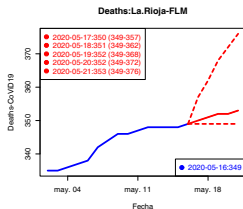


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: La Rioja



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

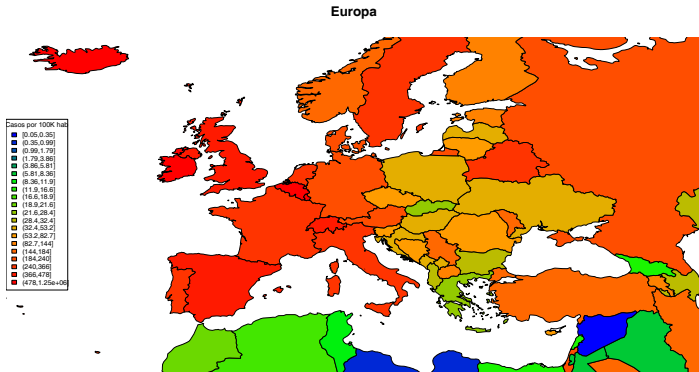
◀ Confirmados

◀ Fallecidos

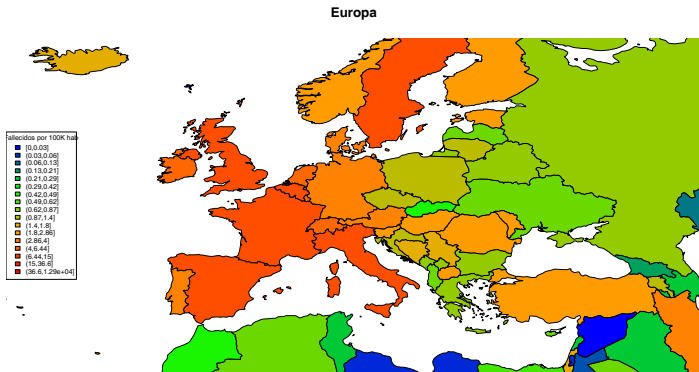
Table of Contents

- 1 Casos Confirmados
 - Predicciones
- 2 Fallecidos
 - Predicciones Fallecidos
- 3 Panorama internacional

Europa: Confirmados por 100K hab.

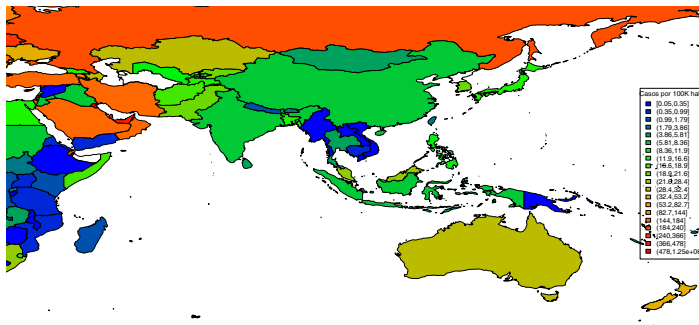


Europa: Fallecidos por 100K hab.



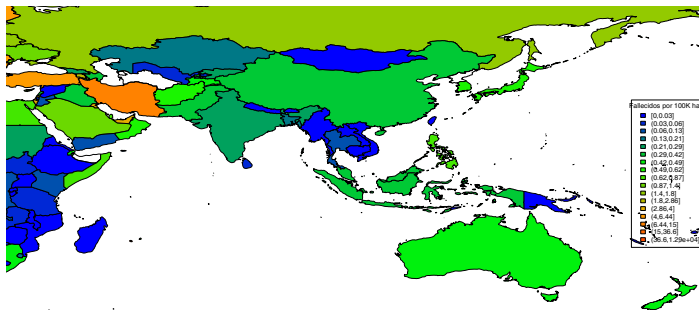
Asia y Oceanía: Casos por 100K hab.

Asia y Oceanía



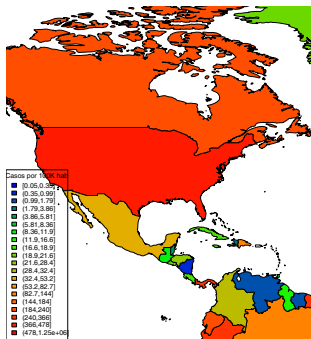
Asia y Oceanía: Fallecidos por 100K hab.

Asia y Oceanía

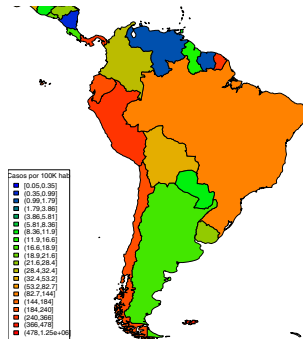


América: Casos por 100K hab.

América del Norte

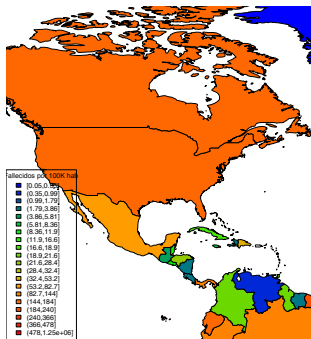


América del sur

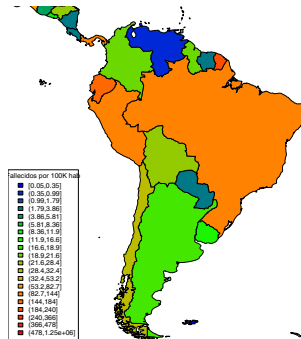


América: Fallecidos por 100K hab.

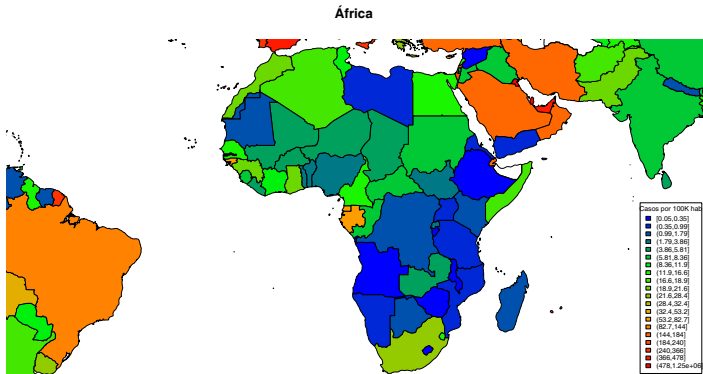
América del Norte



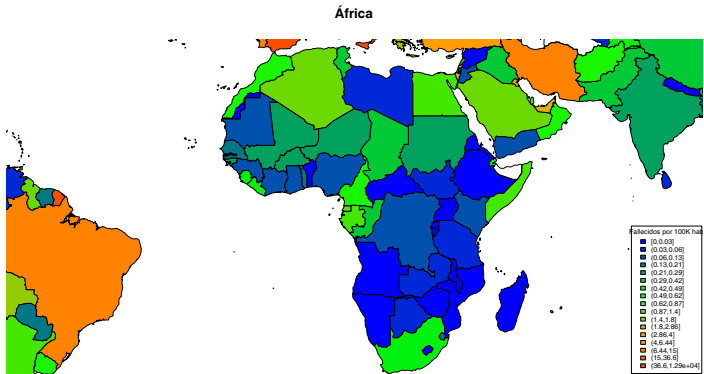
América del sur



África: Casos por 100K hab.



África: Fallecidos por 100K hab.



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.