

Predicciones sobre CoViD-19

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DEPARTAMENTO DE ESTATÍSTICA,
ANÁLISE MATEMÁTICA E OPTIMIZACIÓN



- Predicciones

- Predicciones Fallecidos

3 Panorama internacional

Datos

Aplicación Shiny:

<http://modestya.usc.es:3838/covid19prediction/>

Último dato fichero CCAA: 16/03/2021

Fuente: [https:](https://)

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//cnecovid.isciii.es/covid19/resources/casos_tecnica_ccaa.csv
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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

	$10^2 \sigma_R^2$			$10^2 \sigma_R^2(\text{rob.})$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0.008	0.004	0.007	0.005	0.003	0.006	0.671	0.834	0.694
H2	0.041	0.021	0.039	0.016	0.009	0.018	0.63	0.828	0.649
H3	0.057	0.031	0.054	0.033	0.017	0.035	0.735	0.87	0.749
H4	0.08	0.046	0.075	0.052	0.026	0.053	0.783	0.888	0.796
H5	0.107	0.063	0.099	0.081	0.04	0.081	0.815	0.901	0.827

Tabla Ratio Incr. Confirmados: Mod. Lineal.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	0.0009	0.0014	0.0029	0.0043	0.0054	0.0063
Andalucía	0.0010	0.0015	0.0032	0.0047	0.0060	0.0070
Aragón	0.0008	0.0012	0.0025	0.0037	0.0047	0.0055
Asturias	0.0015	0.0015	0.0032	0.0050	0.0063	0.0074
Canarias	0.0032	0.0032	0.0071	0.0106	0.0137	0.0166
Cantabria	0.0010	0.0014	0.0029	0.0044	0.0054	0.0063
Castilla.y.León	0.0007	0.0012	0.0024	0.0036	0.0045	0.0053
Castilla.La.Mancha	0.0003	0.0009	0.0018	0.0026	0.0032	0.0036
Cataluña	0.0012	0.0016	0.0033	0.0049	0.0061	0.0072
Ceuta	0.0023	0.0024	0.0043	0.0071	0.0096	0.0120
Comunidad.Valenciana	0.0002	0.0008	0.0015	0.0023	0.0027	0.0030
Extremadura	0.0007	0.0014	0.0028	0.0042	0.0053	0.0063
Galicia	0.0009	0.0014	0.0029	0.0043	0.0053	0.0062
Islas.Baleares	0.0004	0.0009	0.0019	0.0029	0.0035	0.0040
La.Rioja	0.0003	0.0008	0.0017	0.0026	0.0032	0.0037
Madrid	0.0012	0.0016	0.0033	0.0049	0.0063	0.0076
Melilla	0.0031	0.0033	0.0070	0.0107	0.0141	0.0175
Murcia	0.0004	0.0010	0.0020	0.0030	0.0037	0.0043
Navarra	0.0010	0.0015	0.0031	0.0046	0.0059	0.0070
País.Vasco	0.0013	0.0017	0.0035	0.0052	0.0067	0.0080

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

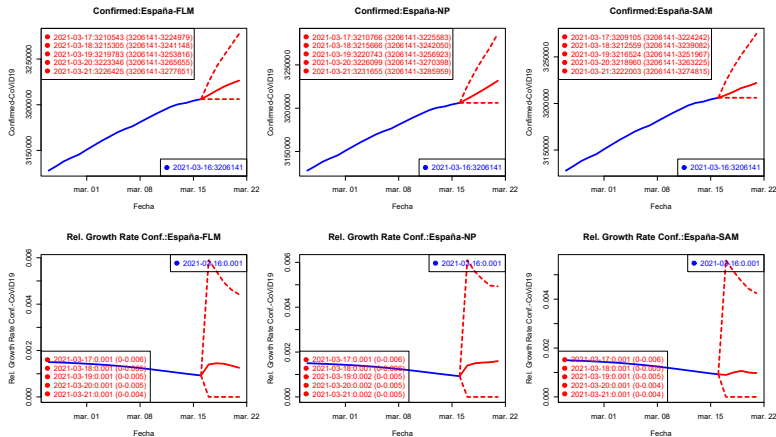
Tabla Ratio Incr. Confirmados: Mod. Aditivo.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	0.0009	0.0009	0.0020	0.0032	0.0040	0.0049
Andalucía	0.0010	0.0011	0.0024	0.0038	0.0046	0.0056
Aragón	0.0008	0.0007	0.0016	0.0026	0.0033	0.0041
Asturias	0.0015	0.0014	0.0027	0.0044	0.0048	0.0058
Canarias	0.0032	0.0036	0.0071	0.0107	0.0133	0.0161
Cantabria	0.0010	0.0010	0.0024	0.0037	0.0043	0.0050
Castilla.y.León	0.0007	0.0006	0.0015	0.0024	0.0032	0.0040
Castilla.La.Mancha	0.0003	0.0003	0.0008	0.0015	0.0019	0.0023
Cataluña	0.0012	0.0012	0.0025	0.0040	0.0047	0.0058
Ceuta	0.0023	0.0015	0.0024	0.0045	0.0060	0.0082
Comunidad.Valenciana	0.0002	0.0001	0.0004	0.0009	0.0013	0.0017
Extremadura	0.0007	0.0009	0.0022	0.0033	0.0045	0.0054
Galicia	0.0009	0.0009	0.0021	0.0033	0.0041	0.0049
Islas.Baleares	0.0004	0.0003	0.0008	0.0015	0.0020	0.0025
La.Rioja	0.0003	0.0002	0.0007	0.0013	0.0017	0.0022
Madrid	0.0012	0.0012	0.0024	0.0039	0.0049	0.0063
Melilla	0.0031	0.0033	0.0062	0.0096	0.0123	0.0157
Murcia	0.0004	0.0004	0.0010	0.0017	0.0023	0.0029
Navarra	0.0010	0.0011	0.0023	0.0036	0.0047	0.0059
País.Vasco	0.0013	0.0013	0.0029	0.0045	0.0055	0.0067

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

Confirmados: España

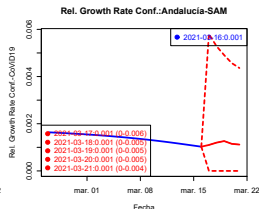
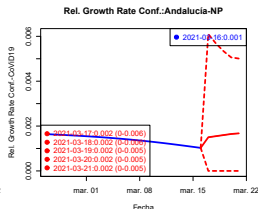
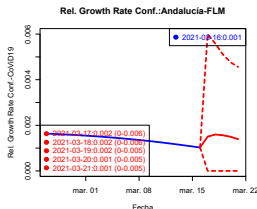
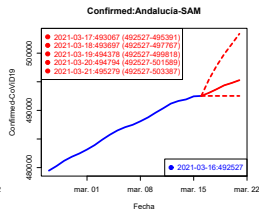
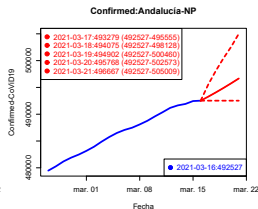
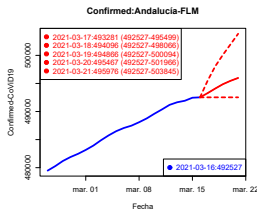


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Andalucía

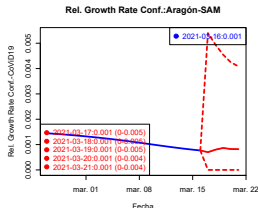
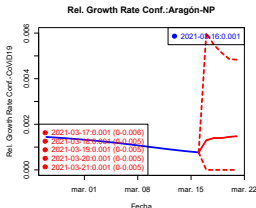
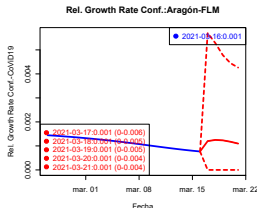
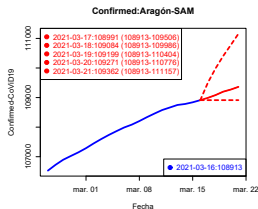
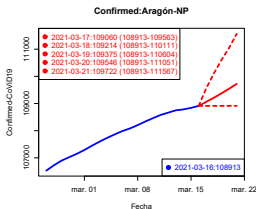
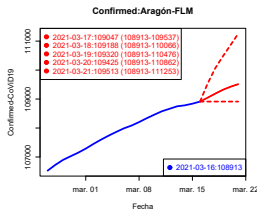


Los valores del Ratio de incremento de H2—H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Aragón

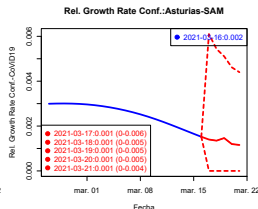
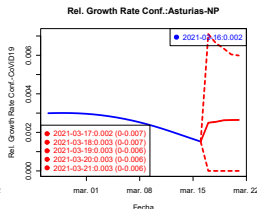
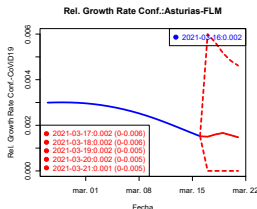
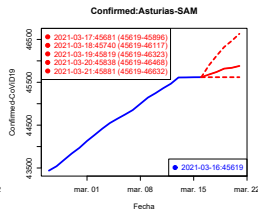
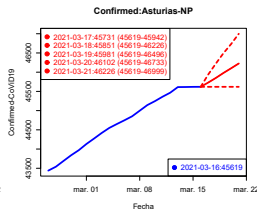
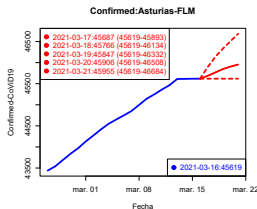


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Asturias

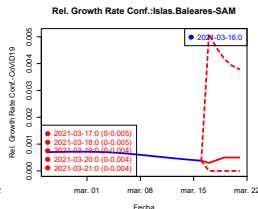
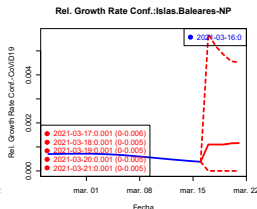
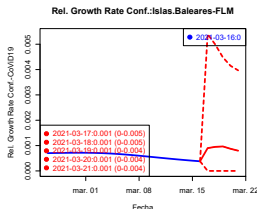
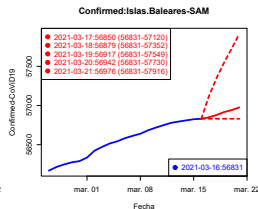
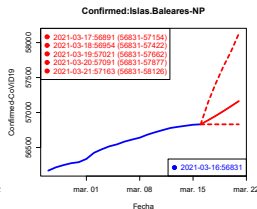
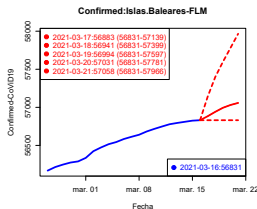


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Islas Baleares

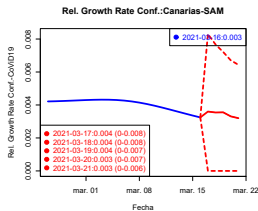
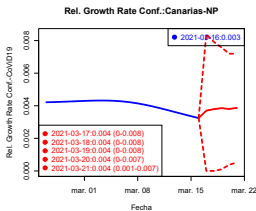
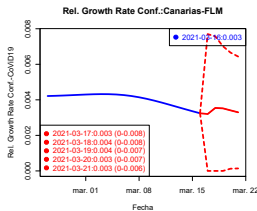
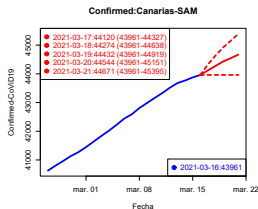
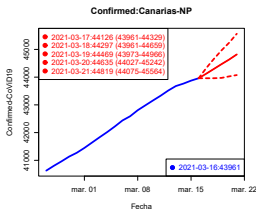
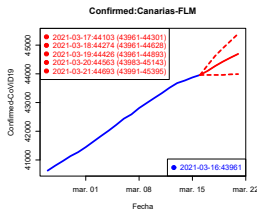


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Canarias

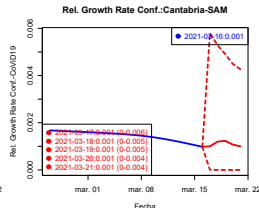
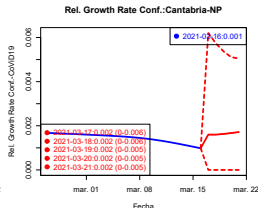
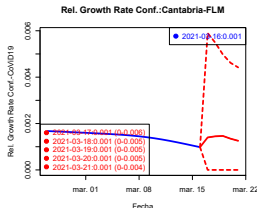
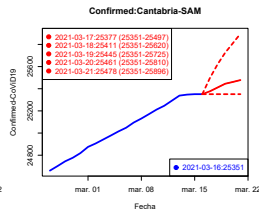
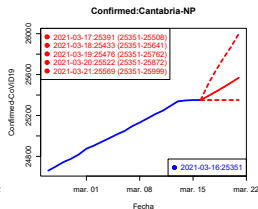
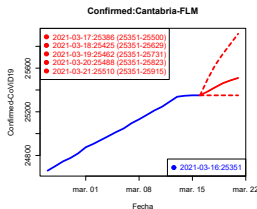


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cantabria

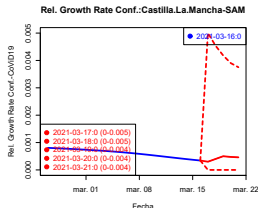
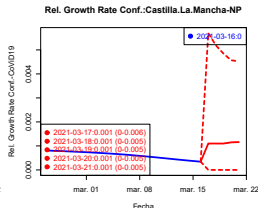
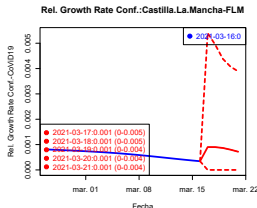
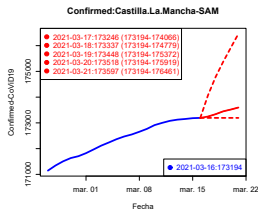
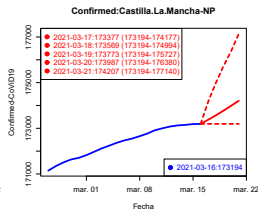
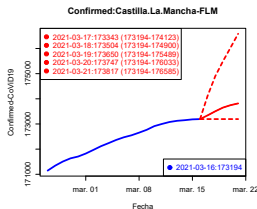


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Castilla-La Mancha

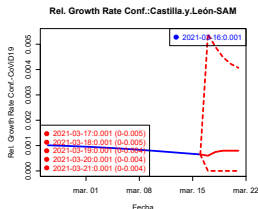
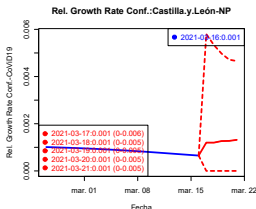
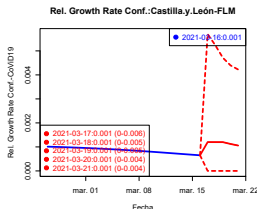
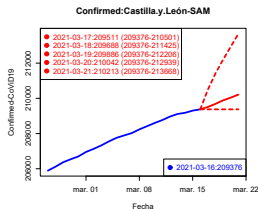
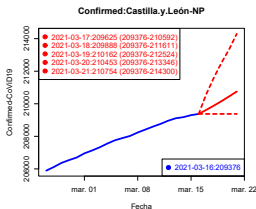
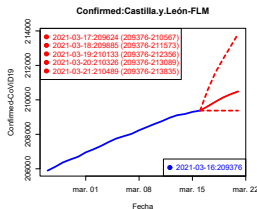


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Castilla y León

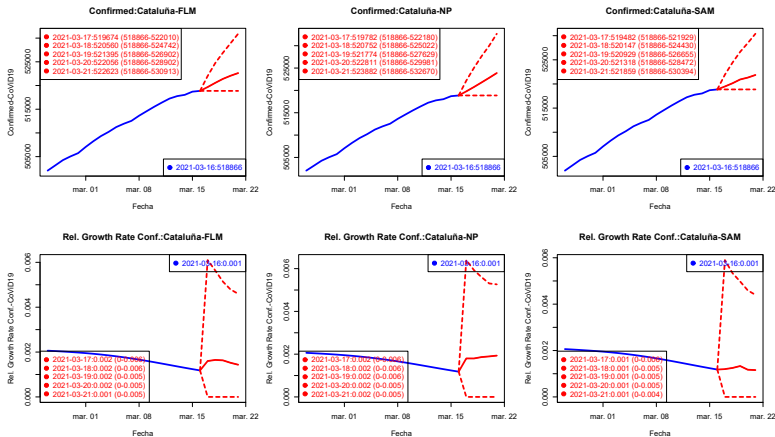


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Cataluña



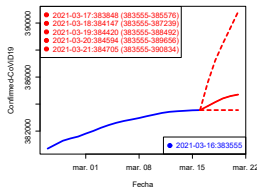
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

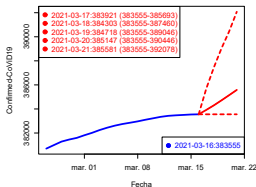
◀ Fallecidos

Confirmados: C. Valenciana

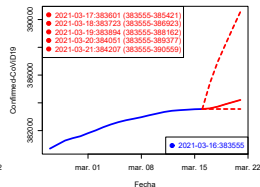
Confirmed:Comunidad.Valenciana-FLM



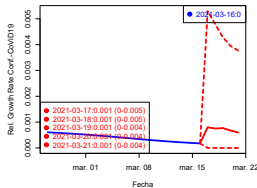
Confirmed:Comunidad.Valenciana-NP



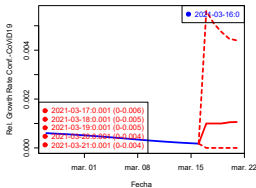
Confirmed:Comunidad.Valenciana-SAM



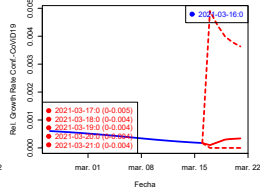
Rel. Growth Rate Conf.:Comunidad.Valenciana-FLM



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



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

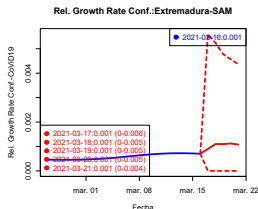
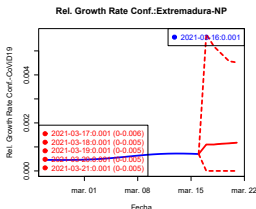
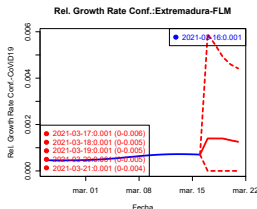
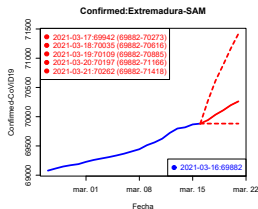
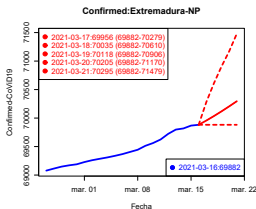
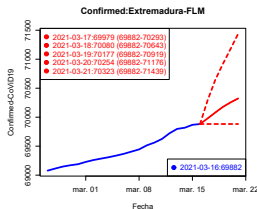


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Extremadura

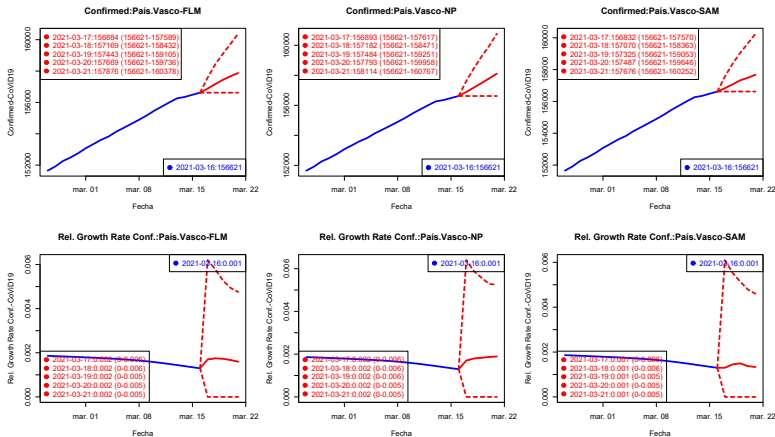


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: País Vasco

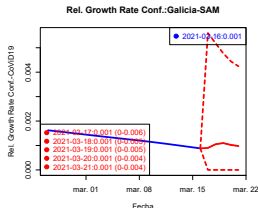
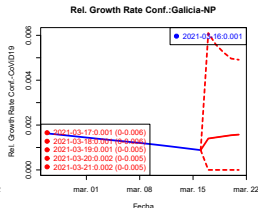
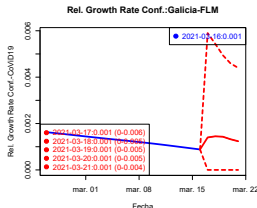
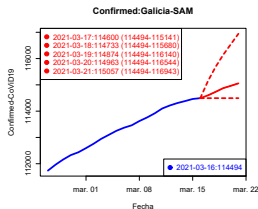
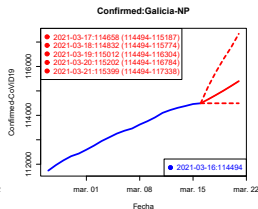
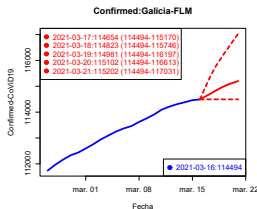


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

← Confirmados

← Fallecidos

Confirmados: Galicia

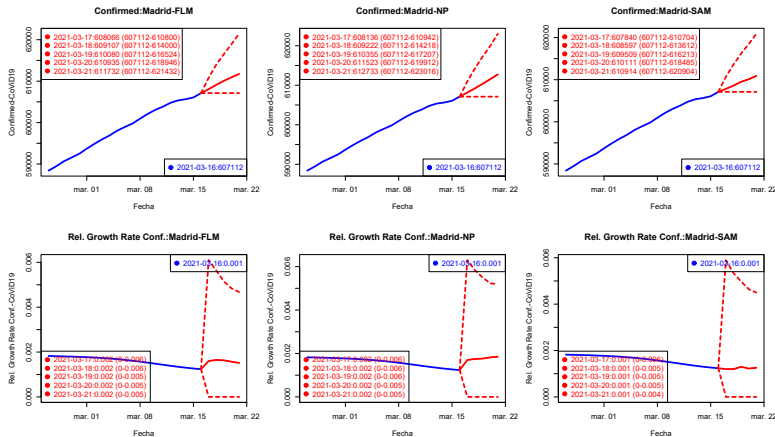


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Madrid

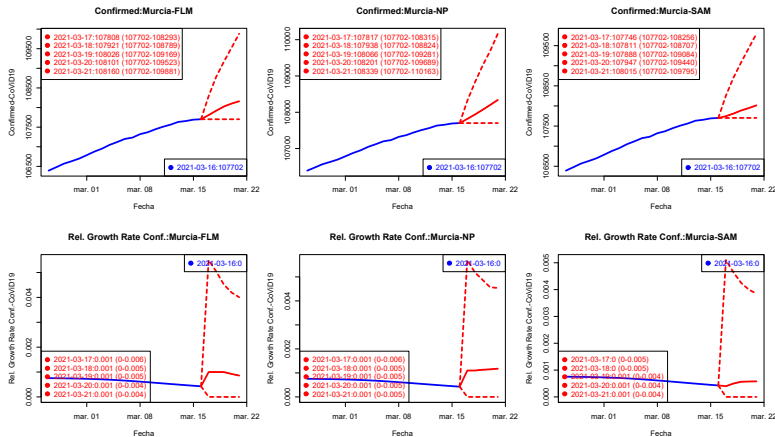


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Murcia

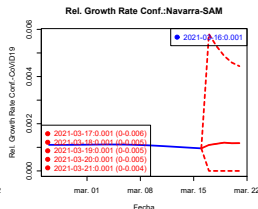
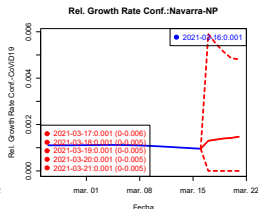
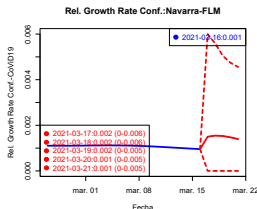
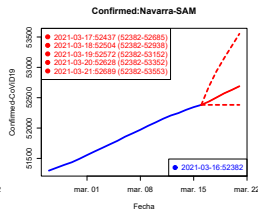
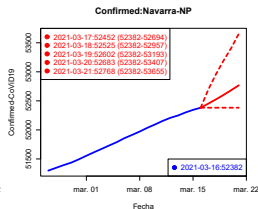
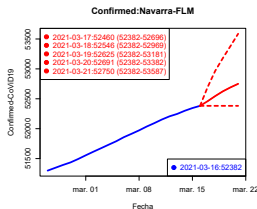


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Confirmados: Navarra



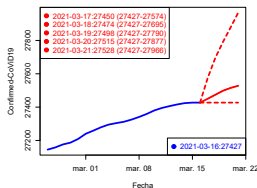
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

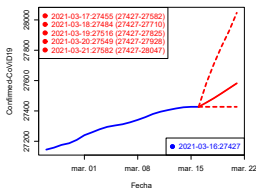
◀ Fallecidos

Confirmados: La Rioja

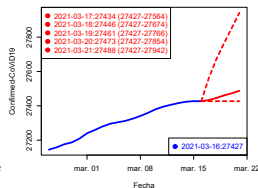
Confirmed:La.Rioja-FLM



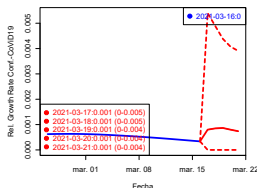
Confirmed:La.Rioja-NP



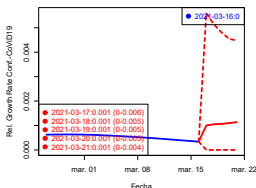
Confirmed:La.Rioja-SAM



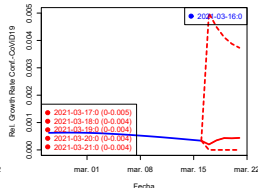
Rel. Growth Rate Conf.:La.Rioja-FLM



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



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



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

◀ Confirmados

◀ Fallecidos

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 - Predicciones
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Modelos para fallecidos por CoViD-19

Último dato: 16/03/2021 Fuente: https://cneccovid.isciii.es/covid19/resources/casos_hosp_uci_def_sexo_edad_provres.csv

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

	$10^2 \sigma_R^2$			$10^2 \sigma_R^2 (rob.)$			r^2		
Horiz	FLM	NP	SAM	FLM	NP	SAM	FLM	NP	SAM
H1	0.002	0.002	0.002	0.002	0.002	0.002	0.71	0.689	0.746
H2	0.005	0.006	0.004	0.004	0.005	0.004	0.825	0.797	0.853
H3	0.007	0.009	0.006	0.007	0.009	0.006	0.878	0.849	0.897
H4	0.028	0.031	0.027	0.011	0.014	0.01	0.778	0.753	0.787
H5	0.04	0.045	0.038	0.015	0.022	0.014	0.797	0.775	0.808

Tabla Previsión Fallecidos: Mod. Lineal.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	72396	72474	72535	72570	72626	72634
Andalucía	8863	8875	8884	8890	8897	8899
Aragón	3327	3331	3334	3336	3338	3339
Asturias	1825	1828	1830	1831	1833	1834
Canarias	629	631	633	635	638	640
Cantabria	530	531	531	532	532	533
Castilla.y.León	6489	6497	6503	6507	6513	6514
Castilla.La.Mancha	5685	5688	5690	5690	5693	5693
Cataluña	11474	11482	11488	11489	11494	11491
Ceuta	87	87	87	87	87	87
Comunidad.Valenciana	6967	6973	6978	6980	6983	6981
Extremadura	1731	1733	1734	1734	1735	1735
Galicia	2280	2284	2287	2289	2292	2292
Islas.Baleares	742	742	742	742	743	743
La.Rioja	737	738	738	739	740	741
Madrid	14422	14439	14453	14463	14476	14481
Melilla	76	76	77	77	78	78
Murcia	1543	1544	1545	1545	1545	1544
Navarra	1113	1114	1115	1116	1117	1117
País.Vasco	3876	3881	3886	3889	3892	3892

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

Tabla Previsión Fallecidos: Mod. No Paramétrico.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	72396	72541	72680	72815	72954	73140
Andalucía	8863	8888	8914	8938	8964	8991
Aragón	3327	3334	3340	3347	3354	3362
Asturias	1825	1830	1834	1839	1843	1849
Canarias	629	631	634	636	639	641
Cantabria	530	531	533	534	535	537
Castilla.y.León	6489	6502	6514	6526	6539	6555
Castilla.La.Mancha	5685	5694	5703	5712	5721	5734
Cataluña	11474	11492	11509	11525	11542	11568
Ceuta	87	87	88	88	88	89
Comunidad.Valenciana	6967	6980	6993	7005	7018	7036
Extremadura	1731	1734	1737	1739	1742	1746
Galicia	2280	2286	2291	2297	2302	2309
Islas.Baleares	742	743	744	746	747	748
La.Rioja	737	738	739	741	742	743
Madrid	14422	14450	14476	14502	14529	14565
Melilla	76	76	77	77	77	78
Murcia	1543	1547	1550	1554	1557	1562
Navarra	1113	1115	1117	1118	1120	1122
País.Vasco	3876	3884	3892	3900	3908	3918

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

Tabla Previsión Fallecidos: Mod. Aditivo.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	72396	72466	72537	72600	72598	72768
Andalucía	8863	8877	8891	8899	8903	8924
Aragón	3327	3330	3334	3336	3336	3345
Asturias	1825	1827	1829	1830	1832	1834
Canarias	629	631	633	636	638	640
Cantabria	530	531	532	533	534	535
Castilla.y.León	6489	6496	6503	6510	6508	6528
Castilla.La.Mancha	5685	5687	5689	5691	5689	5706
Cataluña	11474	11477	11481	11483	11480	11493
Ceuta	87	87	87	87	87	87
Comunidad.Valenciana	6967	6973	6979	6984	6979	7002
Extremadura	1731	1733	1734	1736	1734	1739
Galicia	2280	2284	2288	2291	2290	2296
Islas.Baleares	742	742	742	743	742	745
La.Rioja	737	738	738	738	739	741
Madrid	14422	14436	14450	14463	14468	14496
Melilla	76	76	77	77	77	77
Murcia	1543	1545	1546	1546	1546	1550
Navarra	1113	1114	1114	1115	1115	1118
País.Vasco	3876	3881	3886	3891	3891	3898

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

Tabla Ratio Incr. Fallecidos: Mod. Lineal.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	0.0009	0.0011	0.0019	0.0024	0.0032	0.0033
Andalucía	0.0016	0.0013	0.0023	0.0030	0.0038	0.0040
Aragón	0.0011	0.0012	0.0020	0.0026	0.0034	0.0037
Asturias	0.0015	0.0015	0.0025	0.0033	0.0043	0.0049
Canarias	0.0039	0.0034	0.0068	0.0101	0.0140	0.0180
Cantabria	0.0013	0.0014	0.0028	0.0037	0.0047	0.0051
Castilla.y.León	0.0010	0.0012	0.0022	0.0028	0.0037	0.0038
Castilla.La.Mancha	0.0005	0.0005	0.0008	0.0009	0.0013	0.0013
Cataluña	0.0003	0.0007	0.0012	0.0013	0.0017	0.0015
Ceuta	0.0014	0.0000	0.0000	0.0000	0.0000	0.0003
Comunidad.Valenciana	0.0007	0.0009	0.0016	0.0019	0.0024	0.0020
Extremadura	0.0005	0.0010	0.0016	0.0019	0.0024	0.0021
Galicia	0.0015	0.0018	0.0032	0.0041	0.0052	0.0052
Islas.Baleares	0.0005	0.0003	0.0003	0.0003	0.0008	0.0010
La.Rioja	0.0010	0.0011	0.0020	0.0028	0.0041	0.0049
Madrid	0.0009	0.0012	0.0022	0.0028	0.0038	0.0041
Melilla	0.0044	0.0060	0.0115	0.0163	0.0207	0.0225
Murcia	0.0008	0.0008	0.0013	0.0014	0.0015	0.0007
Navarra	0.0008	0.0010	0.0017	0.0023	0.0034	0.0040
País.Vasco	0.0010	0.0014	0.0026	0.0033	0.0041	0.0042

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

Tabla Ratio Incr. Fallecidos: Mod. No Paramétrico.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	0.0009	0.0020	0.0039	0.0058	0.0077	0.0103
Andalucía	0.0016	0.0029	0.0057	0.0085	0.0114	0.0145
Aragón	0.0011	0.0021	0.0041	0.0060	0.0080	0.0106
Asturias	0.0015	0.0026	0.0051	0.0075	0.0101	0.0130
Canarias	0.0039	0.0037	0.0076	0.0112	0.0154	0.0191
Cantabria	0.0013	0.0025	0.0050	0.0074	0.0100	0.0129
Castilla y León	0.0010	0.0020	0.0039	0.0057	0.0077	0.0102
Castilla-La Mancha	0.0005	0.0016	0.0032	0.0047	0.0063	0.0086
Cataluña	0.0003	0.0015	0.0030	0.0045	0.0059	0.0082
Ceuta	0.0014	0.0034	0.0069	0.0102	0.0139	0.0173
Comunidad Valenciana	0.0007	0.0019	0.0037	0.0055	0.0073	0.0099
Extremadura	0.0005	0.0017	0.0033	0.0049	0.0065	0.0089
Galicia	0.0015	0.0025	0.0049	0.0073	0.0098	0.0127
Islas Baleares	0.0005	0.0016	0.0032	0.0047	0.0063	0.0086
La Rioja	0.0010	0.0017	0.0033	0.0048	0.0064	0.0088
Madrid	0.0009	0.0019	0.0038	0.0056	0.0074	0.0099
Melilla	0.0044	0.0040	0.0081	0.0121	0.0166	0.0205
Murcia	0.0008	0.0024	0.0047	0.0069	0.0093	0.0121
Navarra	0.0008	0.0016	0.0032	0.0047	0.0062	0.0085
País Vasco	0.0010	0.0021	0.0041	0.0061	0.0081	0.0108

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

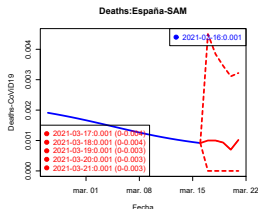
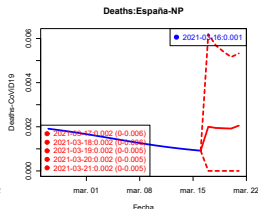
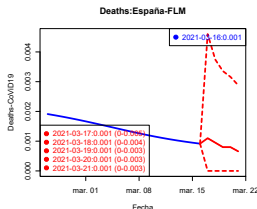
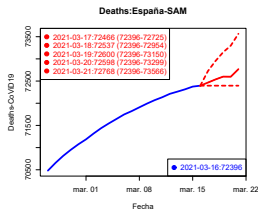
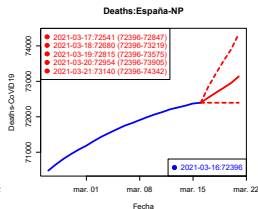
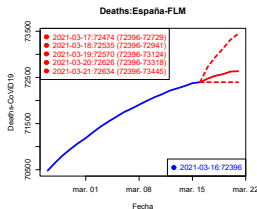
Tabla Ratio Incr. Fallecidos: Mod. Aditivo.

Last=16/03/2021

	Last	H1	H2	H3	H4	H5
España	0.0009	0.0010	0.0020	0.0028	0.0028	0.0051
Andalucía	0.0016	0.0016	0.0032	0.0041	0.0045	0.0069
Aragón	0.0011	0.0010	0.0020	0.0028	0.0028	0.0054
Asturias	0.0015	0.0010	0.0024	0.0030	0.0039	0.0048
Canarias	0.0039	0.0033	0.0069	0.0105	0.0148	0.0178
Cantabria	0.0013	0.0017	0.0036	0.0056	0.0067	0.0090
Castilla.y.León	0.0010	0.0011	0.0022	0.0032	0.0030	0.0060
Castilla.La.Mancha	0.0005	0.0004	0.0007	0.0011	0.0007	0.0037
Cataluña	0.0003	0.0003	0.0006	0.0007	0.0005	0.0016
Ceuta	0.0014	0.0000	0.0000	0.0000	0.0014	0.0033
Comunidad.Valenciana	0.0007	0.0009	0.0017	0.0025	0.0018	0.0050
Extremadura	0.0005	0.0009	0.0016	0.0026	0.0017	0.0047
Galicia	0.0015	0.0017	0.0034	0.0046	0.0046	0.0071
Islas.Baleares	0.0005	0.0003	0.0004	0.0007	0.0007	0.0039
La.Rioja	0.0010	0.0008	0.0014	0.0018	0.0025	0.0056
Madrid	0.0009	0.0010	0.0019	0.0029	0.0032	0.0052
Melilla	0.0044	0.0052	0.0100	0.0140	0.0152	0.0153
Murcia	0.0008	0.0011	0.0020	0.0023	0.0017	0.0044
Navarra	0.0008	0.0007	0.0012	0.0017	0.0019	0.0044
País.Vasco	0.0010	0.0013	0.0027	0.0039	0.0039	0.0057

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

Fallecidos: España

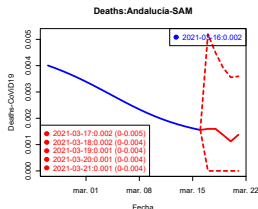
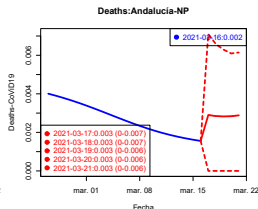
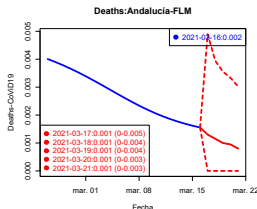
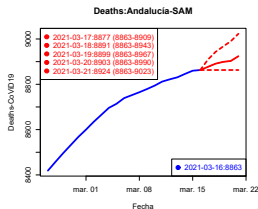
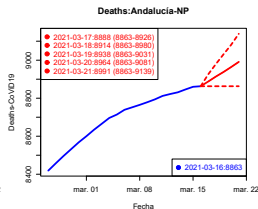
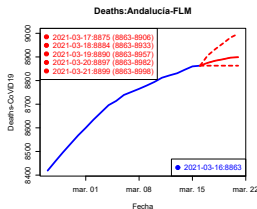


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

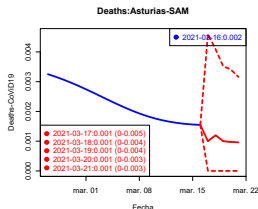
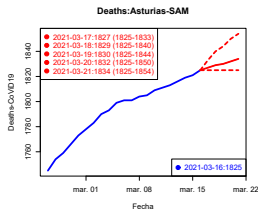
Fallecidos: Andalucía



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

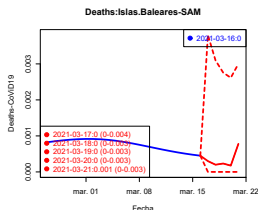
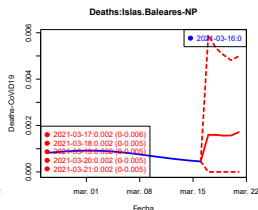
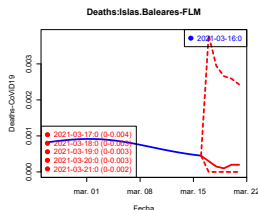
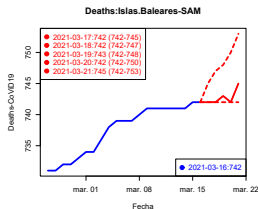
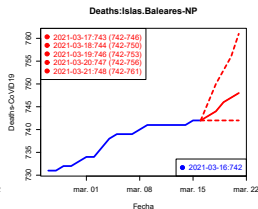
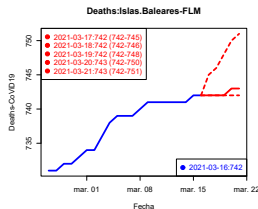
◀ Confirmados

◀ Fallecidos



◀ Confirmados

Fallecidos: Islas Baleares

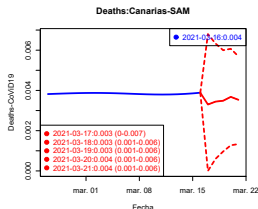
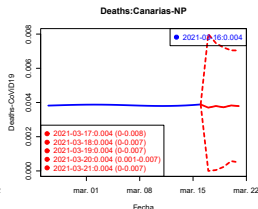
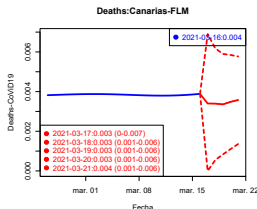
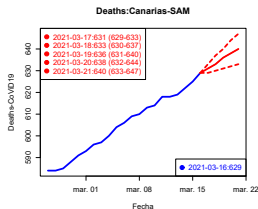
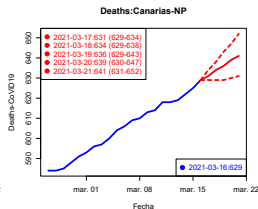
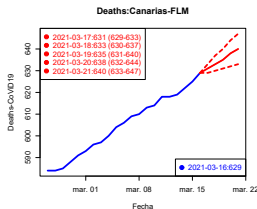


Los valores del Ratio de incremento de H2-H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: Canarias

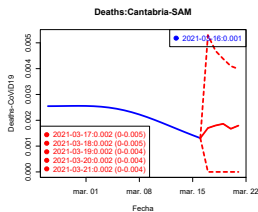
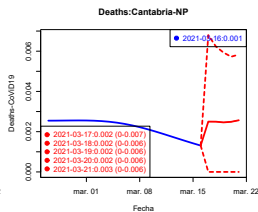
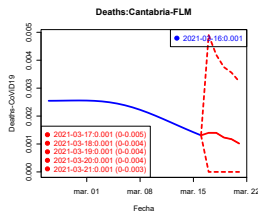
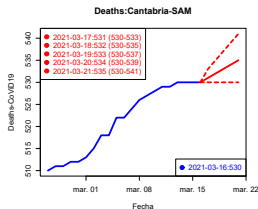
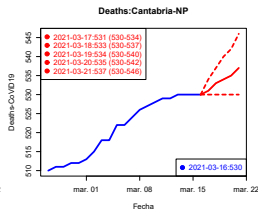
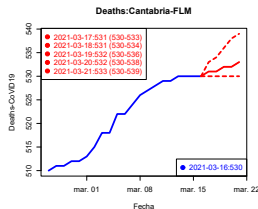


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◀ Confirmados

◀ Fallecidos

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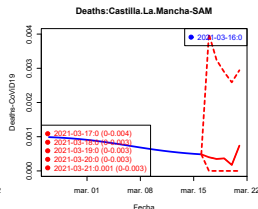
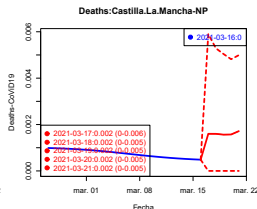
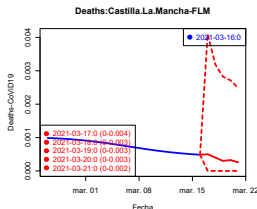
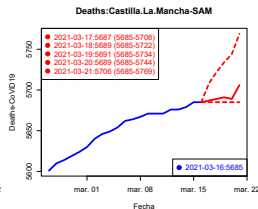
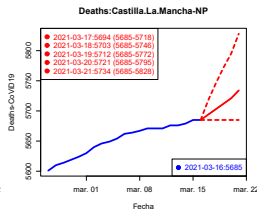
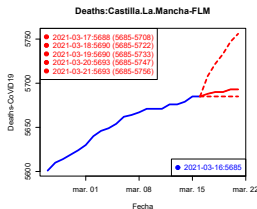


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◀ Confirmados

◀ Fallecidos

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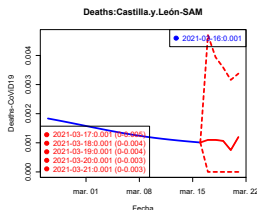
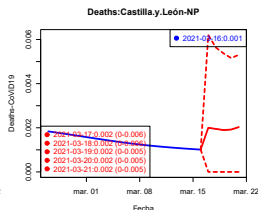
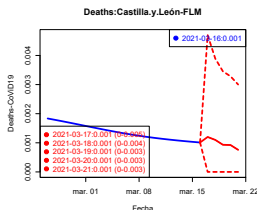
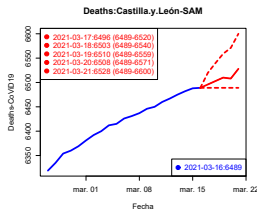
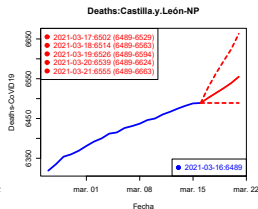
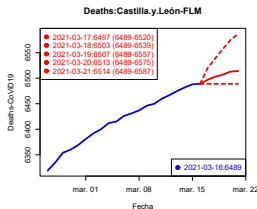


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◀ Confirmados

◀ Fallecidos

Fallecidos: Castilla y León

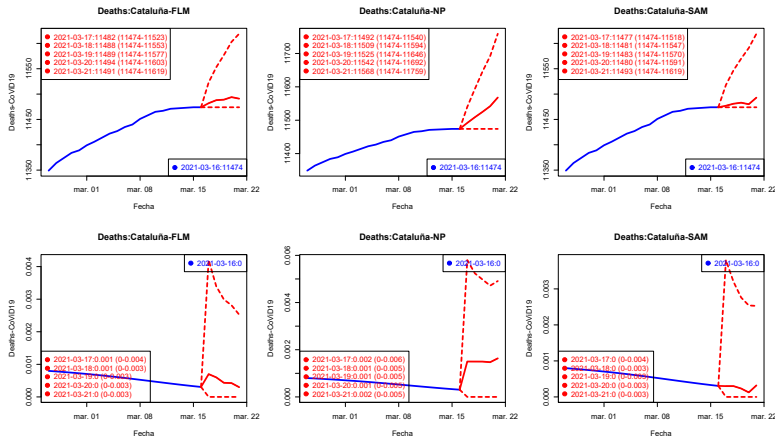


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

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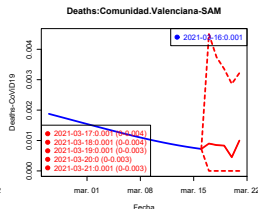
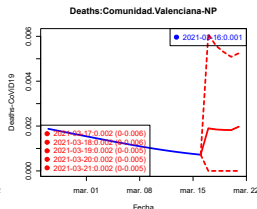
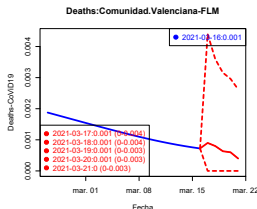
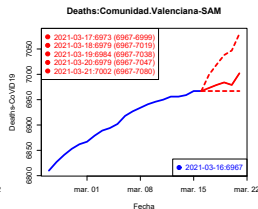
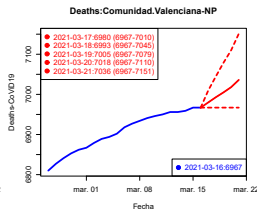
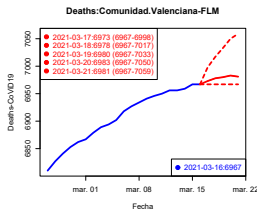


Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

◀ Confirmados

◀ Fallecidos

Fallecidos: C. Valenciana

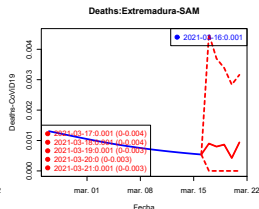
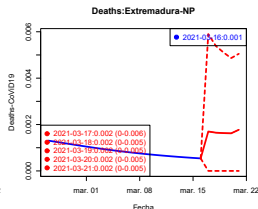
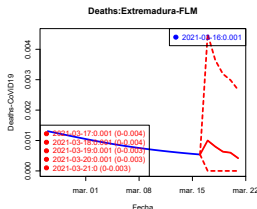
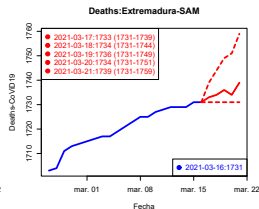
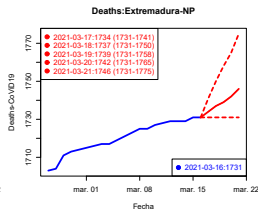
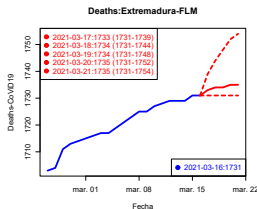


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◀ Confirmados

◀ Fallecidos

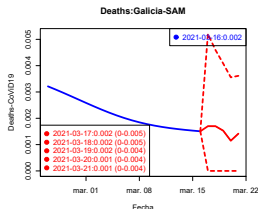
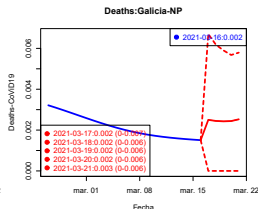
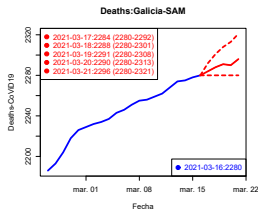
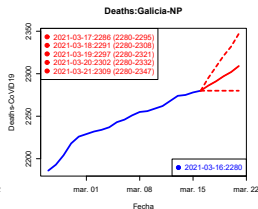
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Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

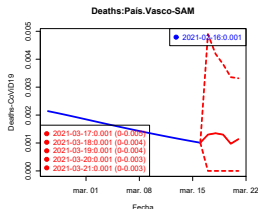
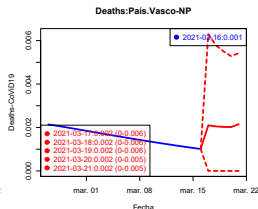
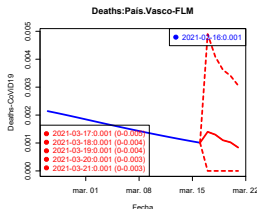
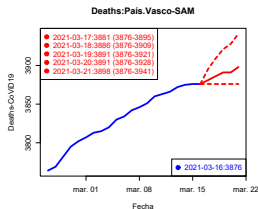
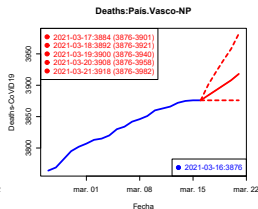
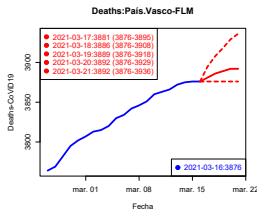
◀ Confirmados

◀ Fallecidos



◀ Confirmados ▶ Fallecidos

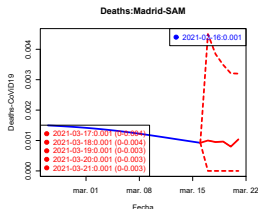
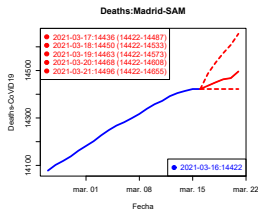
Fallecidos: País Vasco



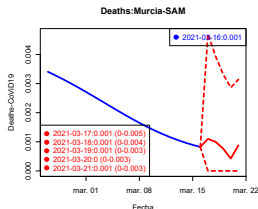
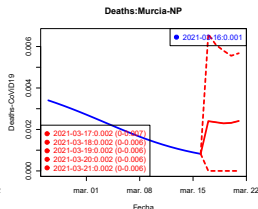
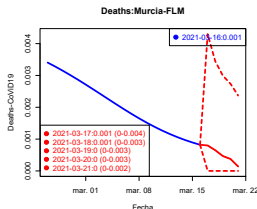
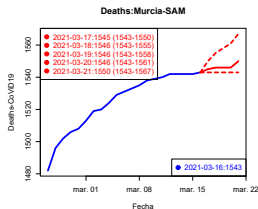
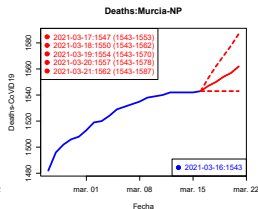
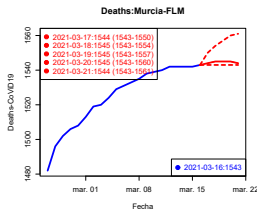
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

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

◀ Fallecidos

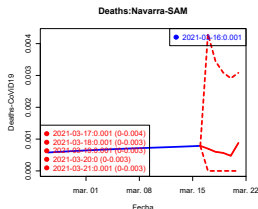
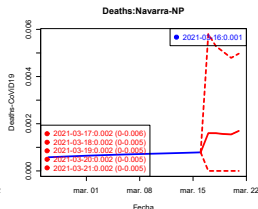
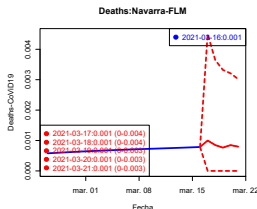
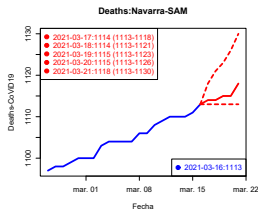
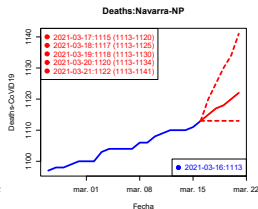
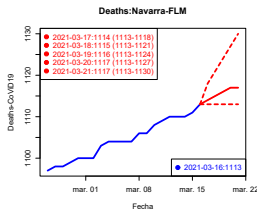


Fallecidos: Murcia



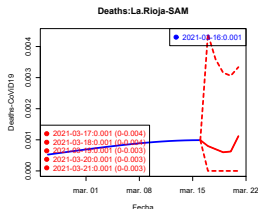
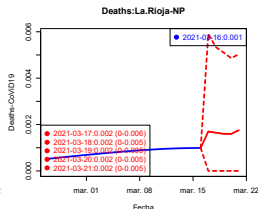
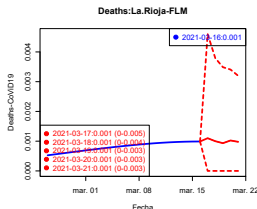
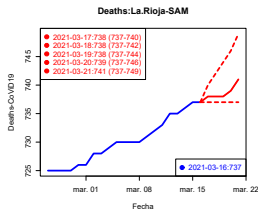
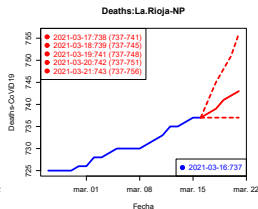
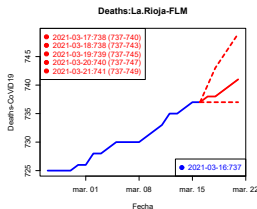
Los valores del Ratio de incremento de H2–H5 están rescalados a H1 para su comparación gráfica.

Fallecidos: Navarra



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

Fallecidos: La Rioja



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

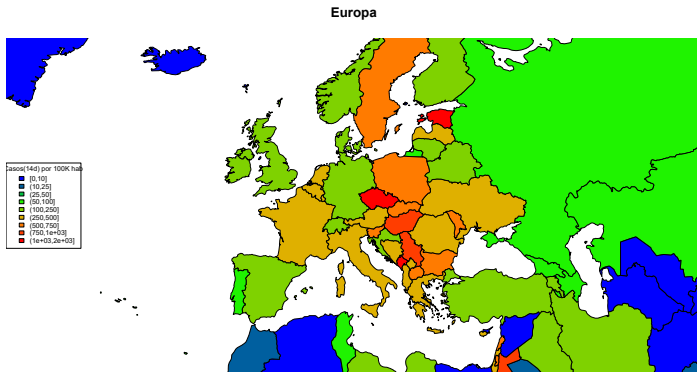
◀ Confirmados

◀ Fallecidos

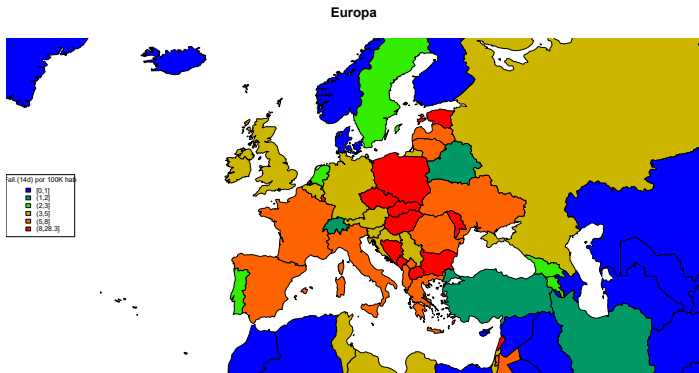
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- 2 Fallecidos
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- 3 Panorama internacional

Europa: Incidencia Acumulada (14d) por 100K hab.

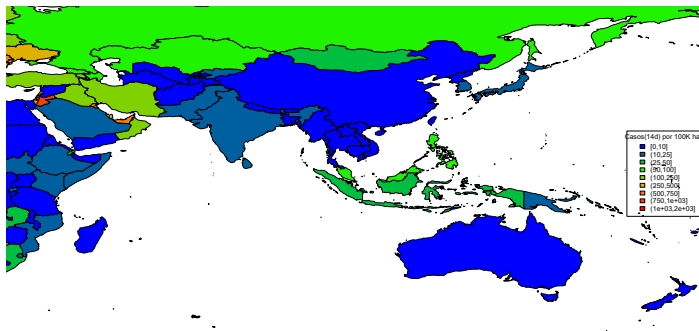


Europa: Fallecidos (14d) por 100K hab.



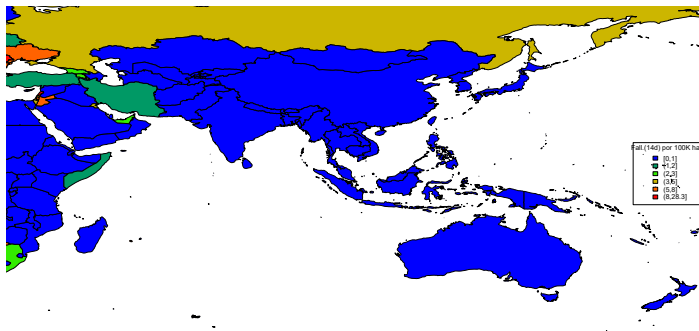
Asia y Oceanía: Incidencia acumulada (14d) por 100K hab.

Asia y Oceanía



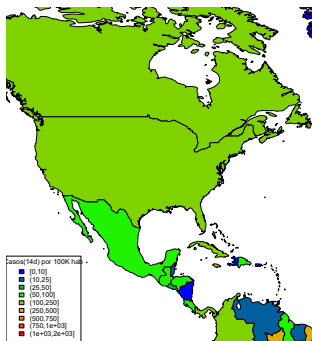
Asia y Oceanía: Fallecidos (14d) por 100K hab.

Asia y Oceanía

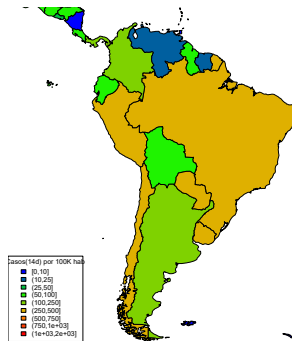


América: Incidencia acumulada (14d) por 100K hab.

América del Norte

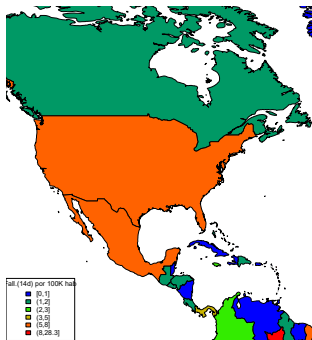


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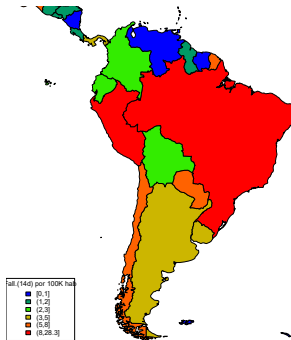


América: Fallecidos (14d) por 100K hab.

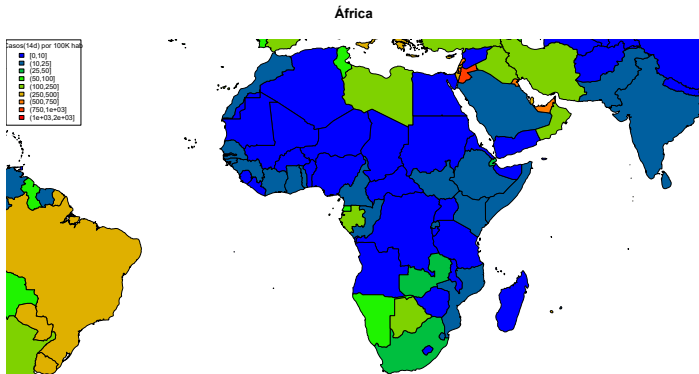
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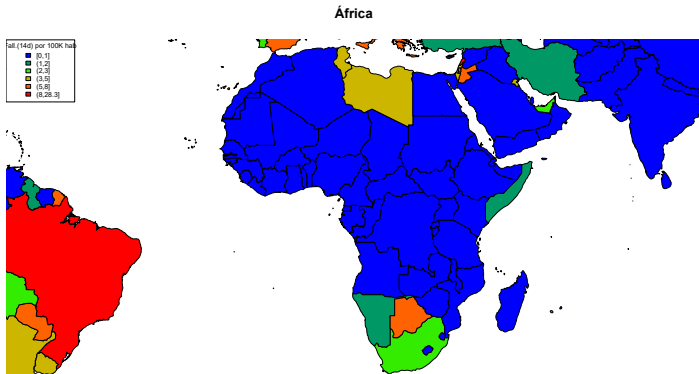
América del sur



África: Incidencia acumulada (14d) por 100K hab.



África: Fallecidos (14d) por 100K hab.



Breve descripción del Modelo de predicción

Objetivo: Predecir ratio de incremento de casos confirmados a 1–5 días: $r^{(k)}(t) = \frac{x_{t+k} - x_t}{x_t + 1}$

Información usada: Pasado de esta variable suavizada (retardo 1) durante los últimos 21 días: $R^{(1)} = \{r^{(1)}(-21), \dots, r^{(1)}(0)\}$.

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 valores anormalmente 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: $f(R^{(1)}) = \int_{-21}^0 R^{(1)}(t)\beta(t)dt$
- 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.