

Component	Term	Estimate	Std Error	t-value	p-value
A. parametric coefficients	(Intercept)	-2,831.249	6,171.701	-0.459	0.6464
	as.factor(Year)1973	-8.036	6,360.143	-0.001	0.9990
	as.factor(Year)1974	-6.577	6,259.575	-0.001	0.9992
	as.factor(Year)1975	-10.764	699,848.680	-0.000	1.0000
	as.factor(Year)1976	11.207	6,154.196	0.002	0.9985
	as.factor(Year)1977	-14.714	445,732.096	-0.000	1.0000
	as.factor(Year)1978	14.530	6,154.196	0.002	0.9981
	as.factor(Year)1979	18.168	6,154.196	0.003	0.9976
	as.factor(Year)1980	16.840	6,154.196	0.003	0.9978
	as.factor(Year)1981	19.264	6,154.196	0.003	0.9975
	as.factor(Year)1982	20.154	6,154.196	0.003	0.9974
	as.factor(Year)1983	12.949	6,154.196	0.002	0.9983
	as.factor(Year)1984	18.627	6,154.196	0.003	0.9976
	as.factor(Year)1985	1.738	6,353.944	0.000	0.9998
	as.factor(Year)1986	21.122	6,154.196	0.003	0.9973
	as.factor(Year)1987	20.607	6,154.196	0.003	0.9973
	as.factor(Year)1988	19.061	6,154.196	0.003	0.9975
	as.factor(Year)1989	22.735	6,154.196	0.004	0.9971
	as.factor(Year)1990	13.815	6,154.196	0.002	0.9982
	as.factor(Year)1991	11.303	6,154.196	0.002	0.9985
	as.factor(Year)1992	16.384	6,154.196	0.003	0.9979
	as.factor(Year)1993	17.057	6,154.196	0.003	0.9978
	as.factor(Year)1994	20.553	6,154.196	0.003	0.9973
	as.factor(Year)1995	17.692	6,154.196	0.003	0.9977
	as.factor(Year)1996	18.811	6,154.196	0.003	0.9976
	as.factor(Year)1997	12.855	6,154.196	0.002	0.9983
	as.factor(Year)1998	10.457	6,154.196	0.002	0.9986
	as.factor(Year)1999	18.903	6,154.196	0.003	0.9975

Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05

Adjusted R-squared: 0.423, Deviance explained 0.793

GCV : 0.591, Scale est: 0.359, N: 45317

Component	Term	Estimate	Std Error	t-value	p-value
	as.factor(Year)2000	11.128	6,154.196	0.002	0.9986
	as.factor(Year)2001	17.200	6,154.196	0.003	0.9978
	as.factor(Year)2002	11.565	6,154.196	0.002	0.9985
	as.factor(Year)2003	18.796	6,154.196	0.003	0.9976
	as.factor(Year)2004	16.971	6,154.196	0.003	0.9978
	as.factor(Year)2005	20.982	6,154.196	0.003	0.9973
	as.factor(Year)2006	12.365	6,154.196	0.002	0.9984
	as.factor(Year)2007	18.087	6,154.196	0.003	0.9977
	as.factor(Year)2008	14.335	6,154.196	0.002	0.9981
	as.factor(Year)2009	24.638	6,154.196	0.004	0.9968
	as.factor(Year)2010	23.526	6,154.196	0.004	0.9969
	as.factor(Year)2011	21.381	6,154.196	0.003	0.9972
	as.factor(Year)2012	9.686	6,154.196	0.002	0.9987
	as.factor(Year)2013	22.968	6,154.196	0.004	0.9970
	as.factor(Year)2014	23.747	6,154.196	0.004	0.9969
	as.factor(Year)2015	21.470	6,154.196	0.003	0.9972
	as.factor(Year)2016	14.512	6,154.196	0.002	0.9981
	as.factor(Year)2017	17.977	6,154.196	0.003	0.9977
	as.factor(Year)2018	14.726	6,154.196	0.002	0.9981
	as.factor(Year)2019	17.900	6,154.196	0.003	0.9977
	as.factor(Year)2020	13.621	6,154.196	0.002	0.9982
	as.factor(Year)2021	22.486	6,154.196	0.004	0.9971
	Stratum1	-0.556	1.043	-0.533	0.5942
	Stratum10	-7.710	6.709	-1.149	0.2504
	Stratum10N	-8.369	0.471	-17.752	0.0000 ***
	Stratum11	4.676	0.287	16.273	0.0000 ***
	Stratum11N	-7.484	0.324	-23.099	0.0000 ***
	Stratum12	7.824	0.261	30.010	0.0000 ***

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Component	Term	Estimate	Std Error	t-value	p-value	
	Stratum12N	-6.155	0.260	-23.657	0.0000	***
	Stratum13	-2.051	0.945	-2.171	0.0300	*
	Stratum13N	-5.952	0.214	-27.779	0.0000	***
	Stratum14	6.883	0.243	28.360	0.0000	***
	Stratum14N	-1.418	0.206	-6.875	0.0000	***
	Stratum15	5.641	0.642	8.792	0.0000	***
	Stratum15N	-1.384	0.207	-6.691	0.0000	***
	Stratum16	0.843	0.455	1.852	0.0640	.
	Stratum17	-2.920	0.694	-4.205	0.0000	***
	Stratum18	2.337	0.971	2.407	0.0161	*
	Stratum19	-56.802	1,879,444.689	-0.000	1.0000	
	Stratum1N	-15.501	3.357	-4.618	0.0000	***
	Stratum2	-47.462	712,882.991	-0.000	0.9999	
	Stratum20	-3.081	0.995	-3.096	0.0020	**
	Stratum22	-21.684	46,770.338	-0.000	0.9996	
	Stratum23	-0.532	1.173	-0.454	0.6502	
	Stratum24	2.046	0.615	3.325	0.0009	***
	Stratum25	1.226	0.497	2.469	0.0135	*
	Stratum26	0.776	0.491	1.581	0.1139	
	Stratum27	5.690	0.301	18.879	0.0000	***
	Stratum28	2.220	0.878	2.529	0.0115	*
	Stratum29	7.015	0.228	30.709	0.0000	***
	Stratum2N	-6.547	0.342	-19.157	0.0000	***
	Stratum3	0.011	8.479	0.001	0.9990	
	Stratum30	1.589	0.597	2.661	0.0078	**
	Stratum31	-0.040	0.983	-0.040	0.9678	
	Stratum32	3.878	0.251	15.457	0.0000	***
	Stratum33	2.253	0.769	2.930	0.0034	**

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GCV : 0.591, Scale est: 0.359, N: 45317

Component	Term	Estimate	Std Error	t-value	p-value	
	Stratum34	6.244	0.258	24.207	0.0000	***
	Stratum35	8.290	0.227	36.594	0.0000	***
	Stratum36	5.077	0.287	17.667	0.0000	***
	Stratum37	4.784	0.306	15.636	0.0000	***
	Stratum38	-1.317	0.288	-4.582	0.0000	***
	Stratum39	5.167	0.266	19.461	0.0000	***
	Stratum3N	-5.199	0.255	-20.372	0.0000	***
	Stratum4	-21.623	169,228.487	-0.000	0.9999	
	Stratum40	4.719	0.259	18.207	0.0000	***
	Stratum41	-1.023	0.233	-4.394	0.0000	***
	Stratum42	4.676	0.233	20.086	0.0000	***
	Stratum43	-0.387	0.243	-1.593	0.1112	
	Stratum44	-1.193	0.221	-5.396	0.0000	***
	Stratum45	3.896	0.594	6.562	0.0000	***
	Stratum46	-69.249	3,982,304.690	-0.000	1.0000	
	Stratum4N	-6.033	0.279	-21.638	0.0000	***
	Stratum5	-0.061	0.721	-0.085	0.9326	
	Stratum50	-0.041	0.181	-0.228	0.8199	
	Stratum51	-0.382	0.235	-1.626	0.1040	
	Stratum52	-1.844	0.313	-5.883	0.0000	***
	Stratum53	-1.540	0.354	-4.357	0.0000	***
	Stratum54	-2.919	0.692	-4.218	0.0000	***
	Stratum55	-3.306	1.123	-2.945	0.0032	**
	Stratum56	-1.004	0.257	-3.905	0.0001	***
	Stratum57	0.032	0.251	0.127	0.8987	
	Stratum58	-61.204	5,107,856.955	-0.000	1.0000	
	Stratum59	-0.601	0.220	-2.732	0.0063	**
	Stratum5N	-7.348	0.505	-14.546	0.0000	***

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Component	Term	Estimate	Std Error	t-value	p-value
	Stratum6	-1.249	0.750	-1.665	0.0959 .
	Stratum60	-0.038	0.221	-0.174	0.8620
	Stratum61	0.121	0.234	0.517	0.6049
	Stratum62	-1.587	0.337	-4.704	0.0000 ***
	Stratum63	0.565	0.210	2.685	0.0072 **
	Stratum64	-4.483	1.906	-2.353	0.0186 *
	Stratum65	-0.786	0.307	-2.560	0.0105 *
	Stratum66	-52.870	2,762,298.224	-0.000	1.0000
	Stratum69	1.049	0.343	3.059	0.0022 **
	Stratum6N	-3.755	0.208	-18.063	0.0000 ***
	Stratum7	-0.629	9.479	-0.066	0.9471
	Stratum73	-3.370	1.747	-1.928	0.0538 .
	Stratum74	-7.406	0.910	-8.140	0.0000 ***
	Stratum7N	-7.885	0.389	-20.294	0.0000 ***
	Stratum8	-19.524	24,566.885	-0.001	0.9994
	Stratum8N	-6.446	0.267	-24.168	0.0000 ***
	Stratum9	-52.728	2,403,614.720	-0.000	1.0000
	Stratum9N	-8.466	0.402	-21.041	0.0000 ***
	StratumBIN	-5.965	0.435	-13.722	0.0000 ***
	StratumRIN	-4.567	0.285	-16.018	0.0000 ***
Component	Term	edf	Ref. df	F-value	p-value
B. smooth terms	s(Bottemp)	8.999	9.000	1,156.635	0.0000 ***
	s(Depth)	6.930	7.003	758.543	0.0000 ***

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