Component	Term	Estimate	Std Error	t-value	p-value	
A. parametric coefficients	(Intercept)	-6.933	5.800	-1.195	0.2319	
	as.factor(Year)1973	-37.896	3,323,346.784	-0.000	1.0000	
	as.factor(Year)1974	-0.413	0.727	-0.569	0.5695	
	as.factor(Year)1975	-0.253	0.876	-0.289	0.7727	
	as.factor(Year)1976	-0.075	0.736	-0.103	0.9183	
	as.factor(Year)1977	-1.657	0.833	-1.989	0.0467	*
	as.factor(Year)1978	-1.345	0.761	-1.766	0.0773	.
	as.factor(Year)1979	-0.963	0.710	-1.356	0.1751	
	as.factor(Year)1980	-2.514	0.922	-2.726	0.0064	**
	as.factor(Year)1981	-0.265	0.662	-0.401	0.6885	
	as.factor(Year)1982	-1.330	0.812	-1.637	0.1016	
	as.factor(Year)1983	-1.497	0.921	-1.625	0.1042	
	as.factor(Year)1984	-2.303	0.957	-2.407	0.0161	*
	as.factor(Year)1985	-2.170	2.244	-0.967	0.3337	
	as.factor(Year)1986	-0.543	1.124	-0.483	0.6288	
	as.factor(Year)1987	-36.053	5,697,773.558	-0.000	1.0000	
	as.factor(Year)1988	-3.284	3.097	-1.060	0.2890	
	as.factor(Year)1989	-0.415	0.799	-0.519	0.6038	
	as.factor(Year)1990	-0.901	1.413	-0.638	0.5236	
	as.factor(Year)1991	-1.390	0.787	-1.766	0.0774	.
	as.factor(Year)1992	-1.089	0.872	-1.249	0.2115	
	as.factor(Year)1993	-2.753	1.391	-1.979	0.0478	*
	as.factor(Year)1994	-0.776	0.716	-1.084	0.2784	
	as.factor(Year)1995	-0.044	0.723	-0.060	0.9519	
	as.factor(Year)1996	-0.898	0.881	-1.019	0.3084	
	as.factor(Year)1997	-1.910	0.917	-2.083	0.0372	*
	as.factor(Year)1998	-3.080	1.249	-2.466	0.0137	*
	as.factor(Year)1999	-5.275	3.090	-1.707	0.0879	.

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

Adjusted R-squared: 0.866, Deviance explained 0.918

GCV : 0.129, Scale est: 0.914, N: 47417

Component	Term	Estimate	Std Error	t-value	p-value	
	as.factor(Year)2000	-37.060	3,661,321.792	-0.000	1.0000	
	as.factor(Year)2001	-3.032	1.089	-2.784	0.0054	**
	as.factor(Year)2002	0.321	0.716	0.448	0.6539	
	as.factor(Year)2003	-2.536	0.999	-2.539	0.0111	*
	as.factor(Year)2004	-3.558	1.548	-2.299	0.0215	*
	as.factor(Year)2005	-4.512	2.338	-1.930	0.0536	.
	as.factor(Year)2006	-2.328	0.873	-2.667	0.0077	**
	as.factor(Year)2007	-1.695	0.692	-2.450	0.0143	*
	as.factor(Year)2008	-0.752	0.682	-1.104	0.2696	
	as.factor(Year)2009	0.918	0.660	1.390	0.1645	
	as.factor(Year)2010	0.368	0.672	0.548	0.5840	
	as.factor(Year)2011	-0.713	0.684	-1.042	0.2972	
	as.factor(Year)2012	-1.832	0.675	-2.714	0.0066	**
	as.factor(Year)2013	-1.259	0.706	-1.784	0.0745	.
	as.factor(Year)2014	-2.086	0.659	-3.167	0.0015	**
	as.factor(Year)2015	1.945	0.655	2.972	0.0030	**
	as.factor(Year)2016	0.694	0.652	1.064	0.2873	
	as.factor(Year)2017	0.614	0.657	0.934	0.3503	
	as.factor(Year)2018	-4.321	0.687	-6.286	0.0000	***
	as.factor(Year)2019	3.339	0.655	5.100	0.0000	***
	as.factor(Year)2020	3.011	0.656	4.594	0.0000	***
	as.factor(Year)2021	1.545	0.697	2.217	0.0267	*
	Stratum1	-2.389	1.491	-1.602	0.1091	
	Stratum10	-1.811	1.490	-1.215	0.2243	
	Stratum10N	0.836	0.951	0.879	0.3794	
	Stratum11	-0.814	0.991	-0.821	0.4117	
	Stratum11N	0.059	0.955	0.061	0.9511	
	Stratum12	0.909	1.005	0.904	0.3659	

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GCV : 0.129, Scale est: 0.914, N: 47417

Component	Term	Estimate	Std Error	t-value	p-value	
	Stratum12N	-1.092	0.965	-1.132	0.2577	
	Stratum13	-1.297	1.316	-0.985	0.3244	
	Stratum13N	-5.147	1.014	-5.078	0.0000	***
	Stratum14	0.033	0.968	0.034	0.9727	
	Stratum14N	-1.934	1.024	-1.890	0.0588	.
	Stratum15	0.026	1.082	0.024	0.9807	
	Stratum15N	-3.906	1.088	-3.591	0.0003	***
	Stratum16	-0.263	1.056	-0.249	0.8035	
	Stratum17	-5.475	1.537	-3.562	0.0004	***
	Stratum18	-0.172	1.076	-0.160	0.8731	
	Stratum19	-0.024	1.068	-0.023	0.9818	
	Stratum1N	-5.340	1.416	-3.771	0.0002	***
	Stratum2	0.632	0.947	0.668	0.5041	
	Stratum20	-37.551	3,270,826.917	-0.000	1.0000	
	Stratum22	-2.196	1.420	-1.547	0.1220	
	Stratum23	-0.172	0.960	-0.180	0.8574	
	Stratum24	1.320	0.939	1.406	0.1597	
	Stratum25	-0.198	1.002	-0.198	0.8430	
	Stratum26	1.487	0.930	1.598	0.1099	
	Stratum27	0.923	0.953	0.968	0.3329	
	Stratum28	0.130	0.982	0.132	0.8950	
	Stratum29	-1.178	1.012	-1.164	0.2446	
	Stratum2N	1.288	0.949	1.357	0.1749	
	Stratum3	-3.118	4.342	-0.718	0.4726	
	Stratum30	-0.950	1.136	-0.836	0.4030	
	Stratum31	-0.043	0.972	-0.045	0.9645	
	Stratum32	-6.844	1.721	-3.976	0.0001	***
	Stratum33	-1.724	1.293	-1.333	0.1824	

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Adjusted R-squared: 0.866, Deviance explained 0.918

GCV : 0.129, Scale est: 0.914, N: 47417

Component	Term	Estimate	Std Error	t-value	p-value	
	Stratum34	-2.201	1.320	-1.667	0.0954	.
	Stratum35	-1.453	1.061	-1.369	0.1709	
	Stratum36	-0.101	0.940	-0.107	0.9144	
	Stratum37	-2.151	1.311	-1.640	0.1010	
	Stratum38	-3.515	1.622	-2.167	0.0303	*
	Stratum39	0.200	0.956	0.209	0.8345	
	Stratum3N	2.363	0.950	2.487	0.0129	*
	Stratum4	-6.957	30.251	-0.230	0.8181	
	Stratum40	-0.952	1.107	-0.860	0.3897	
	Stratum41	-4.446	2.709	-1.641	0.1007	
	Stratum42	0.695	1.007	0.690	0.4900	
	Stratum43	-2.725	2.315	-1.177	0.2390	
	Stratum44	-36.843	6,108,638.503	-0.000	1.0000	
	Stratum45	1.336	1.080	1.237	0.2160	
	Stratum46	0.622	1.148	0.542	0.5878	
	Stratum4N	1.224	0.957	1.279	0.2008	
	Stratum5	-0.552	1.043	-0.529	0.5966	
	Stratum50	-0.060	0.852	-0.070	0.9442	
	Stratum51	-0.813	1.737	-0.468	0.6396	
	Stratum52	-34.261	5,585,386.455	-0.000	1.0000	
	Stratum53	-35.255	9,476,788.165	-0.000	1.0000	
	Stratum54	-36.132	8,499,893.492	-0.000	1.0000	
	Stratum55	-34.712	5,377,995.733	-0.000	1.0000	
	Stratum56	-36.573	1,421,376.375	-0.000	1.0000	
	Stratum57	-35.484	10,148,715.159	-0.000	1.0000	
	Stratum58	-2.340	4.253	-0.550	0.5821	
	Stratum59	-2.672	3.029	-0.882	0.3778	
	Stratum5N	0.001	0.980	0.001	0.9992	

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GCV : 0.129, Scale est: 0.914, N: 47417

Component	Term	Estimate	Std Error	t-value	p-value	
	Stratum6	-0.834	1.336	-0.624	0.5327	
	Stratum60	1.497	0.999	1.499	0.1339	
	Stratum61	-1.845	1.285	-1.437	0.1508	
	Stratum62	-35.039	6,156,517.640	-0.000	1.0000	
	Stratum63	-4.937	10.728	-0.460	0.6454	
	Stratum64	-0.059	1.166	-0.051	0.9593	
	Stratum65	-2.633	1.089	-2.419	0.0156	*
	Stratum66	0.333	1.386	0.240	0.8102	
	Stratum69	-1.644	1.118	-1.471	0.1412	
	Stratum6N	2.871	0.947	3.033	0.0024	**
	Stratum7	-1.371	1.369	-1.001	0.3167	
	Stratum73	-2.410	1.264	-1.907	0.0566	.
	Stratum74	-32.324	2,138,981.439	-0.000	1.0000	
	Stratum7N	0.498	0.955	0.521	0.6022	
	Stratum8	-0.233	0.975	-0.238	0.8115	
	Stratum8N	-0.765	0.978	-0.782	0.4342	
	Stratum9	-1.608	1.354	-1.187	0.2351	
	Stratum9N	0.262	0.954	0.274	0.7839	
	StratumBIN	1.221	0.972	1.257	0.2089	
	StratumRIN	0.067	1.086	0.062	0.9508	

Component	Term	edf	Ref. df	F-value	p-value	
B. smooth terms	s(Bottemp)	8.959	8.999	151.819	0.0000	***
	s(Depth)	5.301	5.578	86.394	0.0000	***

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