

| Component | Term | Estimate | Std Error | t-value | p-value |
|----------------------------|---------------------|----------|-----------------|---------|---------|
| A. parametric coefficients | (Intercept) | -16.408 | 2,608.464 | -0.006 | 0.9950 |
| | as.factor(Year)1980 | 12.992 | 2,608.485 | 0.005 | 0.9960 |
| | as.factor(Year)1981 | -23.905 | 223,671,642.439 | -0.000 | 1.0000 |
| | as.factor(Year)1983 | -25.676 | 360,659,686.451 | -0.000 | 1.0000 |
| | as.factor(Year)1984 | 14.229 | 2,608.469 | 0.005 | 0.9956 |
| | as.factor(Year)1988 | -25.600 | 806,459,575.631 | -0.000 | 1.0000 |
| | as.factor(Year)1989 | -23.694 | 149,755,783.645 | -0.000 | 1.0000 |
| | as.factor(Year)1990 | 11.423 | 2,608.526 | 0.004 | 0.9965 |
| | as.factor(Year)1991 | 10.648 | 2,608.519 | 0.004 | 0.9967 |
| | as.factor(Year)1992 | 13.055 | 2,608.471 | 0.005 | 0.9960 |
| | as.factor(Year)1993 | 12.852 | 2,608.466 | 0.005 | 0.9961 |
| | as.factor(Year)1994 | 12.155 | 2,608.469 | 0.005 | 0.9963 |
| | as.factor(Year)1995 | 13.914 | 2,608.464 | 0.005 | 0.9957 |
| | as.factor(Year)1996 | 15.106 | 2,608.464 | 0.006 | 0.9954 |
| | as.factor(Year)1997 | 14.410 | 2,608.464 | 0.006 | 0.9956 |
| | as.factor(Year)1998 | 14.459 | 2,608.464 | 0.006 | 0.9956 |
| | as.factor(Year)1999 | 10.305 | 2,608.490 | 0.004 | 0.9968 |
| | as.factor(Year)2000 | 11.114 | 2,608.473 | 0.004 | 0.9966 |
| | as.factor(Year)2001 | 12.049 | 2,608.469 | 0.005 | 0.9963 |
| | as.factor(Year)2002 | 14.439 | 2,608.464 | 0.006 | 0.9956 |
| | as.factor(Year)2003 | 15.200 | 2,608.464 | 0.006 | 0.9954 |
| | as.factor(Year)2004 | 15.011 | 2,608.464 | 0.006 | 0.9954 |
| | as.factor(Year)2005 | 15.660 | 2,608.464 | 0.006 | 0.9952 |
| | as.factor(Year)2006 | 15.251 | 2,608.464 | 0.006 | 0.9953 |
| | as.factor(Year)2007 | 14.837 | 2,608.464 | 0.006 | 0.9955 |
| | as.factor(Year)2008 | 14.254 | 2,608.464 | 0.005 | 0.9956 |
| | as.factor(Year)2009 | 16.213 | 2,608.464 | 0.006 | 0.9950 |
| | as.factor(Year)2010 | 14.600 | 2,608.464 | 0.006 | 0.9955 |

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

Adjusted R-squared: 0.274, Deviance explained 0.706

GCV : 80.012, Scale est: 144.413, N: 4241

| Component | Term | Estimate | Std Error | t-value | p-value |
|-----------------|---------------------|----------|-----------|---------|------------|
| | as.factor(Year)2011 | 15.525 | 2,608.464 | 0.006 | 0.9953 |
| | as.factor(Year)2012 | 15.165 | 2,608.464 | 0.006 | 0.9954 |
| | as.factor(Year)2013 | 15.171 | 2,608.464 | 0.006 | 0.9954 |
| | as.factor(Year)2014 | 15.029 | 2,608.464 | 0.006 | 0.9954 |
| | as.factor(Year)2015 | 15.774 | 2,608.464 | 0.006 | 0.9952 |
| | as.factor(Year)2016 | 14.809 | 2,608.464 | 0.006 | 0.9955 |
| | as.factor(Year)2017 | 14.496 | 2,608.464 | 0.006 | 0.9956 |
| | as.factor(Year)2018 | 13.497 | 2,608.464 | 0.005 | 0.9959 |
| | as.factor(Year)2019 | 13.992 | 2,608.464 | 0.005 | 0.9957 |
| | as.factor(Year)2020 | 13.733 | 2,608.464 | 0.005 | 0.9958 |
| | as.factor(Year)2021 | 15.221 | 2,608.464 | 0.006 | 0.9953 |
| | as.factor(Year)2022 | 14.488 | 2,608.464 | 0.006 | 0.9956 |
| | SurveyCTLISTS | 2.351 | 0.507 | 4.638 | 0.0000 *** |
| | SurveyDEBay | 0.798 | 0.712 | 1.121 | 0.2624 |
| | SurveyGAEMTS | 6.469 | 0.544 | 11.882 | 0.0000 *** |
| | SurveyNJOT | -0.607 | 0.931 | -0.652 | 0.5147 |
| Component | Term | edf | Ref. df | F-value | p-value |
| B. smooth terms | s(SurfTemp) | 7.878 | 8.347 | 38.009 | 0.0000 *** |
| | s(Depth.m) | 6.447 | 7.163 | 13.479 | 0.0000 *** |

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

Adjusted R-squared: 0.274, Deviance explained 0.706

GCV : 80.012, Scale est: 144.413, N: 4241