DR2004055

Fish scale content in Santa Barbara Basin sediments as used in

W. Berger, A. Schimmelmann, and C.B. Lange, 2004, Tidal cycles in the sediments of Santa Barbara Basin. Geology, v.xx, p. xxx-xxx.

Original source:

T.R. Baumgartner, A. Soutar, V. Ferreira-Bartrina, 1992, Reconstruction of the history of Pacific Sardine and northern Anchovy populations over the past two millenia from sediments of the Santa Barbara Basin, California. California Cooperative Oceanic Fisheries Investigations Report, v. 33, p. 24-40. The data are given as figures in that publication, and plotted as no./1000sqcm/yr.

decade sardine anchovy top

1970 0 7.07 1960 0 4.02 1950 0.23 3.71 1940 2.46 1.70 1930 5.29 9.28 1920 4.31 10.01 1910 3.15 13.19 1900 10.31 16.98 1890 17.35 1.01 1880 0 15.76 1870 4.35 10.75 1860 10.05 10.21 1850 5.56 10.33 1840 3.93 12.78 1830 2.39 8.13 1820 2.56 6.24 1810 1.45 6.18 1800 2.01 4.23 1790 0 4.53 1780 0 5.27 1770 1.19 11.50 1760 2.18 20.73 1750 2.91 7.35 1740 1.71 0.39

```
1730
       0.69
              -0.10
1720
       2.49
              0.45
1710
       1.76
              2.47
1700
       2.87
              4.98
1690
       1.67
              2.53
1680
              11.34
       4.08
1670
       0.01
              11.46
1660
       0
              9.02
1650
       0
              2.85
1640
       0
              0.04
1630
       1.08
              2.67
1620
       1.08
              2.36
1610
       0.14
              0.04
1600
              0.17
       1.08
1590
              2.06
       0
1580
       0
              6.22
1570
              3.41
       0
1560
       0
              4.33
1550
              7.02
       0
1540
       0
              3.84
1530
       7.35
              3.05
1520
       18.36
              3.30
1510
       5.12
              6.72
1500
       2.21
              8.31
1490
       0.37
              12.96
1480
              3.00
       0
1470
       1.18
              22.01
       0
1460
              8.07
1450
       0.97
              2.70
1440
       1.02
              2.82
1430
       1.83
              0.26
1420
       1.1
              1.11
1410
       2.05
              1.66
1400
       0.21
              6.37
1390
       0.04
              6.19
1380
       0.94
              10.65
1370
       1.37
              14.51
1360
       4.58
              20.25
1350
              6.75
       0.68
1340
       3.04
              5.16
1330
       3.56
              1.98
1320
       3
              2.47
1310
       0.04
              3.45
1300
       0.05
              1.38
1290
              -0.09
       0.3
1280
       1.85
              4.31
```

```
1270
       6.6
              21.61
1260
       3.18
              7.43
1250
       2.11
              11.84
1240
       8.06
              11.53
1230
       2.41
              5.97
1220
       0.01
              1.21
1210
       4.73
              6.28
1200
       0.61
              5.55
1190
       1.34
              3.17
1180
       3.57
              9.71
1170
       3.36
              9.77
1160
       6.75
              8.61
1150
       6.32
              11.30
1140
       2.21
              25.48
1130
       0.02
              11.06
1120
       0.02
              12.16
1110
       0.02
              5.63
1100
       0.37
              5.38
1090
       1.7
              13.64
1080
              12.97
       1.48
1070
       0.11
              24.03
1060
       0
              10.95
1050
       3.33
              13.03
1040
       12.59 9.61
1030
       15.63
              7.84
1020
       8.95
              6.62
1010
       2.48
              5.95
1000
       6.59
              7.72
990
       21.33
              22.03
980
       10.88
             12.49
970
              7.97
       6
960
              12.74
       9.81
950
       4.67
              6.57
940
       4.58
              7.80
930
       6.9
              14.15
       5.19
920
              19.59
910
       2.79
              18.62
900
       0.9
              12.57
890
       1.29
              12.08
880
       0.09
              19.91
870
       0.78
              11.05
860
       2.71
              17.83
850
       2.79
              19.30
840
       0.61
              12.33
830
       0.14
              9.16
820
       1.43
              8.18
```

```
810
              5.01
       1.43
800
       1.64
              10.20
790
       1.47
              14.12
780
       1.73
              16.75
              16.75
       3.49
770
760
       1.6
              8.38
750
       3.19
              8.44
740
       1.39
              14.98
730
       0.19
              14.86
720
       0.28
              5.76
       2.34
710
              7.41
700
       8.3
              13.52
690
              15.60
       17.12
680
              18.60
       11.34
       2.99
670
              16.83
660
       1.83
              14.75
650
       0.33
              14.38
640
       0.29
              12.19
630
       2.05
              20.99
620
       5.56
              23.56
610
       6.08
              14.45
600
       5.14
              11.15
590
       4.54
              6.63
580
       2.91
              10.85
570
       7.24
              21.00
560
       6.12
              37.93
550
       4.71
              12.14
540
       9.9
              14.77
530
       18.94
              19.42
520
       12.21
              20.27
510
       6.26
              26.57
500
              24.19
       7.67
490
       10.37
              18.63
480
       8.79
              15.88
470
              14.35
       8.19
460
              14.23
       8.41
450
       1.25
              14.05
440
       0.23
              8.43
430
       0.23
              5.62
420
              18.95
       0.23
410
       0.19
              9.11
              8.50
400
       7.6
390
       10.51
              18.22
380
       14.67
              16.87
370
       12.06
              14.49
```

360

4.56

7.71

350	0.49	5.82
340	0.15	8.51
330	0.88	12.12
320	1.57	15.11
310	0.45	15.30
300	0.15	23.18
290	0.2	20.37

Varve thickness values in mm for sediments in Santa Barbara Basin, as used in

W. Berger, A. Schimmelmann, and C.B. Lange, 2004, Tidal cycles in the sediments of Santa Barbara Basin. Geology, v.xx, p. xxx-xxx.

last updated in June 1997

YEAR thickness

1992 4.00 1991 2.50

1990 2.50

1989 2.00

1988 5.50

1987 3.00

1986 3.50

1985 3.00

1984 2.50

1983 4.00

1982 4.50

1981 3.00

1980 5.00

1979 5.00

1978 4.25

1977 4.50

1976 3.00

1975 3.00

1974 4.00

1973 5.00

1972 5.00

1971 4.50

1070 1.30

1970 4.20

1969 5.00 1968 3.00

1967 3.50

1966 3.50

1965 3.25

1964 4.50

1963 3.00

1962 3.00

1961 3.00

1960 2.50

1959 2.50

- 1958 3.50
- 1957 3.00
- 1956 2.50
- 1955 4.00
- 1954 3.25
- 1953 2.50
- 1952 2.50
- 1951 2.50
- 1950 5.00
- 1949 4.00
- 1948 3.00
- 1947 3.25
- 1946 3.00
- 1945 3.50
- 1944 3.50
- 1943 3.25
- 1942 3.00
- 1941 2.75
- 1940 2.75
- 1939 2.50
- 1938 2.50 1937 2.50
- 1936 2.50 1935 2.25
- 1934 3.00
- 1933 2.25
- 1932 2.00
- 1931 2.50
- 1930 2.25
- 1929 2.50
- 1928 2.75
- 1927 2.50
- 1926 2.75
- 1925 2.25
- 1924 2.75
- 1923 2.25 1922 3.25
- 1921 2.25
- 1920 2.50
- 1919 3.00
- 1918 3.50
- 1917 3.50
- 1916 4.00
- 1915 2.50
- 1914 3.50
- 1913 5.00

- 1912 3.00
- 1911 2.50
- 1910 2.50
- 1909 2.25
- 1908 2.00
- 1907 2.00
- 1906 2.00
- 1905 2.50
- 1904 2.50
- 1903 2.25
- 1902 2.00
- 1901 2.75
- 1900 2.50
- 1899 2.00
- 1898 4.00
- 1897 3
- 1896 2.5
- 1895 2
- 1894 3
- 3 1893
- 3 1892
- 1891 3
- 1890 3.25
- 1889 2.75
- 1888 3.00
- 1887 2.80
- 1886 3.00
- 1885 3.50
- 1884 3.25
- 1883 2.75 1882 2.50
- 2.40
- 1881
- 1880 2.00
- 1879 2.15
- 1878 2.90
- 1877 4.10 1876 2.50
- 1875 2.90
- 1874 2.80
- 1873 3.75
- 2.20 1872
- 1871 3.75
- 1870 2.90
- 1869 2.10
- 1868 2.30
- 1867 2.00

- 1866 3.35
- 1865 3.35
- 1864 3.35
- 1863 5.35
- 1862 2.80
- 1861 1.50
- 1860 1.50
- 1859 1.60
- 1858 1.60
- 1857 2.30
- 1856 2.50
- 1855 2.10
- 1854 2.20
- 1853 2.25
- 1852 1.70
- 1851 2.30
- 1850 2.00
- 2.00
- 1849
- 1848 1.15
- 1847 1.40
- 1846 2.00
- 1845 2.10
- 1844 2.40
- 1843 1.80
- 1842 2.20
- 1841 1.60
- 2.00 1840
- 1839 1.81
- 1838 1.81
- 1837 1.81
- 1836 1.81
- 1835 2.10
- 1834 1.60
- 1833 1.50
- 1832 2.00
- 1831 1.25
- 1830 1.50
- 1829 1.50
- 1828 1.50
- 1827 1.50
- 1826 1.50
- 1825 2.00
- 1824 1.50
- 1823 1.50
- 1822 1.85
- 1821 1.90

- 1820 2.80
- 1819 2.50
- 1818 2.50
- 1817 2.00
- 1816 1.50
- 1815 1.60
- 1814 1.30
- 1813 1.00
- 1812 1.20
- 1811 1.20
- 1810 1.75
- 1809 2.00
- 1808 1.50
- 1807 1.60
- 1806 2.00
- 1805 1.50
- 1804 2
- 1803 2
- 1802 2
- 1801 1.2
- 1800 1.2
- 1799 1.8
- 1798 2.70
- 1797 1.80
- 1796 2.00
- 1795 1.00
- 1794 1.00
- 1793 1.50
- 1792 1.30
- 1791 1.85
- 1790 2.65
- 1789 1.60
- 1788 1.40
- 1787 1.85
- 1786 2.00
- 1785 2.00
- 1784 1.30
- 1783 1.30
- 1782 1.50
- 1781 1.50
- 1780 1.50
- 1779 1.00
- 1778 1.00
- 1777 1.90
- 1776 1.50
- 1775 2.00

- 1774 2.00
- 1773 2.00
- 1772 2.00
- 1771 2.60
- 1770 2.10
- 1769 2.20
- 1768 1.85
- 1767 2
- 1766 2.05
- 1765 1.60
- 1764 1.60
- 1763 1.70
- 1762 1.40
- 1761 1.60
- 1760 2.15
- 1759 2.00
- 1758 1.50
- 1757 0.8
- 1756 0.8
- 1755 1.00
- 1754
- 1.00 1753 1.00
- 1752 1.00 1751 2.25
- 1750 1.90
- 1749 2
- 1748 1.2
- 1747 2.1
- 1746 1.8
- 1745 2.1
- 1744 1.6
- 1743 1.5
- 1742 2
- 1741 2.8
- 1740 1.7
- 1739 1.5
- 1738 2
- 1737 4
- 1736 1.1
- 1735 1.5
- 1734 2.10
- 1733 2.40
- 1732 1.75
- 1731 2.00
- 1730 2.10
- 1.85 1729

- 1728 1.60
- 1727 2.40
- 1726 4
- 1725 2
- 2 1724
- 1723 2
- 2 1722
- 1721 2.85
- 1720 2.75
- 1719 2.75
- 1718 3.60
- 1717 3.90
- 1716 4.20
- 1715 1.60
- 1714 1.6
- 1713 1.6
- 1712 1.25
- 1711 4.40
- 1710 2.55
- 1709 2.30
- 1708 2.60
- 1707 3.60
- 1706 3.00
- 1705 2.10
- 1704 1.80
- 1703 2.10
- 1702 2.20
- 1701 1.75
- 1700 1.50
- 1699 1.60
- 1698 1.90
- 1697 2.80
- 1696 2.3
- 1695 2.3
- 1694 1.15
- 1693 1.9
- 1692 1.55
- 1691 2.1
- 1690 1.5
- 1689 1.95
- 1688 1.2
- 1687 1.45
- 1686 1.4
- 1685 1
- 1684 1
- 1683 2

- 1682 2.3
- 1681 2
- 1680 2
- 1679 2.1
- 1678 2.2
- 1677 1.9
- 1676 1.9
- 1675 1.9
- 1674 2.5
- 1673 2.5
- 1672 1.65
- 1671 1.75
- 1670 2
- 1669 2
- 1668 1.6
- 1667 1.5
- 1666 1.5
- 1665 1.8
- 1664 1.6
- 1663 1.2
- 1662 2.15
- 1661 2
- 1660 1.5
- 1659 1.5
- 1658 1.5
- 1657 1.5
- 1656 1.6
- 1655 1.5
- 1654 2.1
- 1653 2.2
- 1652 2
- 1651 2
- 1650 1.7
- 1649 1.7
- 1648 2
- 1647 1.9
- 1646 2.5
- 1645 1.3
- 1644 1.2
- 1643 1
- 1642 1
- 1641 1.5
- 1640 1.5
- 1639 1.4
- 1638 1.7
- 1637 1

- 1636 0.9
- 1635 0.9
- 1634 1.4
- 1633 1.1
- 1632 0.7
- 1631 0.7
- 1630 0.7
- 1629 0.8
- 1628 0.8
- 1627 0.8
- 1626 1
- 1625 1
- 1624 1
- 1623 1.2
- 1622 1.2
- 1621 1.1
- 1620 1.1 1619 1.6
- 1618 1.2
- 1617 1.7
- 1616 1.5
- 1615 1.7
- 1614 1.5
- 1613 1.5
- 1612 1.5
- 1611 1.4
- 1610 1.4
- 1609 1.1
- 1608 0.9
- 1607 1.15
- 1606 1.1
- 1605 1.6
- 1604 1
- 1603 0.8
- 1602 0.9
- 1601 1.4
- 1600 1.25
- 1599 1.55
- 1598 1.25
- 1597 1.35
- 1596 1.35 1595 1.25
- 1594 1.2
- 1593 1.3
- 1592 1.5
- 1591 1.55

- 1590 1.3
- 1.35
- 1.35
- 1.5
- 1.5
- 1.7
- 1.3
- 1.6
- 1.2
- 1.35
- 1.15
- 1.2
- 1.45
- 1.1
- 1.3
- 1.2
- 1.7

- 0.9
- 0.9
- 0.9
- 0.8
- 1.1
- 1.5
- 1.5
- 1.4
- 0.8
- 1.2
- 1.11 1.11
- 1.11

- 1.3
- 1.1
- 0.8
- 0.8
- 1.5

- 1544
- 1543 1.5
- 1542 1.2
- 1.2 1541
- 1540 1.1
- 1539 0.9
- 1538 1.5
- 1537 1.2
- 1536 1.2
- 1535 1.2
- 1534 1.2
- 1533 1.6
- 1532 1.3
- 1531 1.2
- 1530 1
- 1529 1.8
- 1528 1.2
- 1527 1.45
- 1526 1.45
- 1525 1.4
- 1524 1.4
- 1523 1.6
- 1522
- 1.5 1521 1.35
- 1520
- 1.6
- 1519 1.45
- 1518 1.6
- 1517 1.3
- 1516 1.3
- 1515 2
- 1514 1.4
- 1513 1.35
- 1512 1.75
- 1511 1.05
- 1510 1.05
- 1509 1.55
- 1508 1.85
- 1507 1.1
- 1506 1.85
- 1505 2.7
- 1504 2.15
- 1503 3.1
- 1502 1.8
- 1501 1.55
- 1500 2.25
- 1499 1

- 1498 1.5
- 1497 1.2
- 1496 2.1
- 1495 1.65
- 1494 1.6
- 1493 1.55
- 1492 1.85
- 1491 1.9
- 1490 1.45
- 1489 1.1
- 1488 1.35
- 1487 1.2
- 1486 1.1
- 1485 1.55
- 1484 0.95
- 1483 1.25
- 1482 1.05
- 1481 1.05
- 1480 1.05
- 1479 1.05
- 1478 0.95
- 1477 1.5
- 1476 1.3 1.3
- 1475
- 1474 1
- 1473 1.2
- 1472 0.8
- 1471 1
- 1470 0.7
- 1469 1
- 1468 1.5
- 1467 0.88
- 1466 0.88
- 1465 1.2
- 1464 1
- 1463 1.2
- 1462 0.95
- 1461 1.2
- 1460 1.15
- 1459 1.3
- 1458 1.4
- 1457 1.3
- 1456 1.05
- 1455 1
- 1454 1.55
- 1453 1.2

- 1452 1.63
- 1.33
- 1.85
- 1.1
- 1.1
- 0.9

- 0.9
- 0.8
- 1.1
- 1.5
- 1.5

- 0.9
- 0.9
- 0.9
- 1.1
- 1.5
- 0.9
- 1.2
- 1.6
- 0.6
- 1.1
- 1.2
- 1.5
- 1.2

- 1.2
- 1.7
- 0.75

- 1.15
- 1.15
- 1.45
- 1.43
- 1.43
- 1.6
- 1.55
- 0.9
- 1.15

- 1406 1.7
- 1405 1.35
- 1404 1.15
- 1403 1.95
- 1402 1.7
- 1401 1.45
- 1400 1.3
- 1399 1
- 1398 1
- 1397 1.4
- 1396 1.85
- 1395 2.05
- 1394 1.5
- 1393 1.6
- 1392 1.6
- 1391 1.45
- 1390 1.5
- 1389 1.8
- 1388 1.7
- 1387 1.7
- 1386 1.95
- 1385 1.5
- 1384 1.4
- 1383 1.6
- 1382 1.6
- 1381 1.6
- 1380 1.65
- 1379 1
- 1378 1
- 1.5 1377
- 1376 1.5
- 1375 1.7
- 1374 1.1
- 1373 1.5
- 1372 1.1
- 1371 1.6
- 1370 1.3
- 1369 1.3
- 1368 1.5 1367 1.3
- 1366 1.6
- 1365 1.3 1364 1.3
- 1363 1.3
- 1362 1
- 1361 1.3

1360 1.5

1359 1 1358 1.7 1357 1.3

1356 1.5

Total Organic Carbon in Santa Barbara Basin sediments, interpolated for 1 yr intervals, and standardized after detrending (which affects mainly the last few decades). Series used in

W. Berger, A. Schimmelmann, and C.B. Lange, 2004, Tidal cycles in the sediments of Santa Barbara Basin. Geology, v.xx, p. xxx-xxx.

year	intpol mgC/g	standardized after detrend
1987	47.07	0.539634979
1986	45.85	1.361145777
1985	30.03	0.237616456
1984	32.98	0.604403715
1983	36.17	1.028868396
1982	38.28	1.305230053
1981	35.85	1.100634857
1980	35.10	1.05366847
1979	36.19	1.184833918
1978	38.35	1.419290851
1977	38.79	1.476363241
1976	38.52	1.458558647
1975	38.54	1.468131795
1974	37.26	1.344255329
1973	35.27	1.147766354
1972	38.07	1.436397364
1971	40.08	1.642861111
1970	40.11	1.649188907
1969	39.09	1.54936085
1968	40.44	1.688151459
1967	42.45	1.760728353
1966	40.57	1.704640945
1965	37.13	1.357872303
1964	36.19	1.264339999
1963	37.52	1.400977169
1962	37.46	1.395818302
1961	35.27	1.174864781
1960	35.27	1.175601518
1959	35.02	1.151583035
1958	36.16	1.268337513
1055	2455	1 10 (05 5000

1957 34.75 1.126275338

- 1956 36.15 1.267986154
- 1955 34.60 1.112121594
- 1954 33.20 0.970780948
- 1953 32.03 0.853379761
- 1952 32.12 0.863268347
- 1951 31.82 0.832947884
- 1950 31.26 0.777218442
- 1949 29.91 0.640552764
- 1948 29.01 0.549842115
- 1947 28.95 0.54450885
- 1946 30.62 0.713792803
- 1945 32.57 0.911251495
- 1944 33.34 0.990193118
- 1943 33.46 1.002882601
- 1942 32.68 0.924169174
- 1041 31.50 0.023265126
- 1941 31.78 0.833265136
- 1940 30.95 0.749829916
- 1939 30.41 0.695546427
- 1938 30.28 0.682012018
- 1937 30.74 0.72960192
- 1936 31.60 0.816214379
- 1935 32.92 0.950531704
- 1934 34.19 1.079691202
- 1933 35.36 1.198850127
- 1932 36.11 1.274378813
- 1931 36.01 1.264831765
- 1930 35.13 1.175554915
- 1929 34.80 1.142844424
- 1727 54.00 1.142044424
- 1928 35.10 1.173963402 1927 35.15 1.179147472
- 1926 34.24 1.087123978
- 1925 33.36 0.998073474
- 1924 32.97 0.958740041
- 1923 33.42 1.004742112
- 1922 33.67 1.030237994
- 1921 33.37 0.999643059
- 1920 33.31 0.993935057
- 1919 32.95 0.957764498
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