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*Supplement of*

## **Inter-decadal changes in the intensity of the Oxygen Minimum Zone off Concepción, Chile ( $\sim 36^\circ$ S) over the last century**

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## Supplement

Table S1

$^{210}\text{Pb}_{\text{xs}}$  inventories and calculated ages (CE: common era) from core 04032009 at St 18 (mid-shelf off Concepción). Radiocarbon control points from longer core at St 18 are listed (VG06-2 core; Muñoz et al. 2012). Calculations consider local reservoir correction Delta-R = 137 years ( $\pm 164$ ) considering to the average value of nearest data from Valparaíso (33°S)

Mid point depth (cm)	Total Inventory (dpm cm <sup>-2</sup> )	Age (yr)	years (CE)	Corrected ages (CE)
0,25	48.28 ± 0.05	1.5 ± 0.1	2009	2009,0
0,75	46.08 ± 0.07	2.0 ± 0.1	2007	2007,5
1,25	43.28 ± 0.09	1.9 ± 0.1	2005	2005,5
1,75	40.74 ± 0.09	2.0 ± 0.1	2004	2003,5
2,25	38.28 ± 0.07	2.2 ± 0.1	2002	2001,5
2,75	35.76 ± 0.05	2.5 ± 0.1	1999	1999,3
3,25	33.05 ± 0.05	2.6 ± 0.1	1997	1996,8
3,75	30.50 ± 0.05	2.3 ± 0.1	1994	1992,4
4,25	28.43 ± 0.05	3.0 ± 0.1	1992	1989,3
4,75	25.86 ± 0.07	3.2 ± 0.1	1989	1986,2
5,5	23.44 ± 0.08	6.5 ± 0.1	1986	1981,5
6,5	19.16 ± 0.08	4.7 ± 0.1	1979	1975,5
7,5	16.56 ± 0.07	7.2 ± 0.2	1974	1969,4
8,5	13.24 ± 0.06	5.7 ± 0.2	1967	1963,4
9,5	11.10 ± 0.05	5.6 ± 0.2	1962	1957,4
10,5	9.33 ± 0.05	5.5 ± 0.2	1956	1951,3
11,5	7.86 ± 0.05	5.9 ± 0.2	1950	1945,1
12,5	6.54 ± 0.05	6.2 ± 0.3	1944	1938,9
13,5	5.40 ± 0.05	7.8 ± 0.3	1938	1932,5
14,5	4.24 ± 0.04	8.0 ± 0.4	1931	1925,9
15,5	3.31 ± 0.04	8.6 ± 0.6	1923	1919,2
16,5	2.54 ± 0.05	9.9 ± 0.8	1914	1912,2
17,5	1.87 ± 0.05	12.1 ± 0.8	1904	1905,0
18,5	1.29 ± 0.03	14.1 ± 1.3	1892	1897,4
19,5	0.83 ± 0.03	16.9 ± 2.0	1878	1889,6
20,5	0.49 ± 0.03	23.6 ± 5.1	1861	1881,4
21,5	0.24 ± 0.04	88.1 ± 50.2	1838	1872,8
Core depth (cm)	NOSAM accession #	<sup>14</sup> C age (yrs BP)	Calendar age (cal yr BP)	
43	OS-66613	850 ± 85	344 ± 159	
56	OS-66616	1480 ± 80	881 ± 180	
81	OS-66622	2820 ± 120	2414 ± 252	