Age [kaBP]	Upwelling intensity	Context	Reference
9.9 - 8.4	- '	warmer and stratified conditions	Zhao et al. 2017
9,5	+	aragonite:calcite-ratio	Cohen et al. 1992
9.5 - 4.5	-	cold water coral mound	Tamborrino et al. 2019 etc.
8,6	+	dated shells	Cohen and Tyson 1995
8.4 - 3.1	+	cool and nutrient-rich waters	Zhao et al. 2017
8.4 - 5.8	+	cold intervals in the northern 18° Benguela region	Farmer et al. 2005
8.4 - 5.3	+	Iron concentrations, Chilean continental margin	Lamy et al. 2001, Zhao et al. 2016, 2017
8.2 - 5.8	+	SSTs cooler than present by 1°C – 2°C	Farmer et al. 2005 Leduc et al. 2010, Zhao et al. 2016b, Zhao et al.
> 7.8 7.1 - 5.0	-	high relative abundance of Fynbos vegetation enhanced dissolved oxygen	2017 Tamborrino et al. 2019
7.0			Branch et al. 1994, Compton 2006
7.0		Solen capensis, Gastrana matadoa, Bogenfels warmest temperatures within the Holocene	Embley and Morley 2000
-	-	(18.4°C for winter, 23.6°C for summer)	
6.3	+	dated shells	Cohen and Tyson 1995
5.8	-	sea surface significantly warmer	Cohen and Tyson 1995
5.8 - 4.4	-	enhanced dissolved oxygen concentrations, growth of cold-water reefs	Tamborrino et al. 2019
5.5	-	high SSTs (Holocene Hypsithermal)	Meisel et al. 2011, Shi et al. 2000, Kim et al. 2002, Cohen and Tyson 1995,
5.2	-	shell, Cape Cross	this study, Cape Cross
5.2	-	shell, Cape Cross	this study, Cape Cross
5.1	-	shell, Cape Cross	this study, Cape Cross
5.0	-	shell, Torra Bay	this study, Torra Bay
5.0	-	shell, Torra Bay	this study, Torra Bay
5.0	-	shell, Torra Bay	this study, Torra Bay
4.8	-	shell, Cape Cross	this study, Cape Cross
4.8	-	shell, Cape Cross	this study, Cape Cross
4.8	-	shell, Cape Cross	this study, Cape Cross
4.8 - 3.8	+	anoxic to suboxic waters	Kiessling 2002, Emeis et al. 2009
< 4.8	-	high SST	Emeis et al. 2009
4.5	+	extinction of Lophelia pertusa	Tamborrino et al. 2019
4.3	-	temperatures remained high	Cohen and Tyson 1995
4.2	+	slowdown of NADW-production	Meisel et al. 2011
< 4.0	+	increase in relative abundance of	Woldon at al 2012 Than at al 2017
3.3 - 0.25	+	Neogloboquadrina pachyderma dated shells	Weldeab et al. 2013, Zhao et al. 2017 Cohen and Tyson 1995
3.3 - 0.25	+	slight increase in T (δ ¹⁸ O)	Meisel et al. 2011
3.19	+	aragonite:calcite-ratio	Cohen et al. 1992
3.19	+	high nutrient supply	Zhao et al. 2017
		slight decline in T at 2700 BP along with	
2.7	+	minimum NADW-production	Meisel et al. 2011
2.7	-	anoxia apparently decreased in frequency of occurrence	Emeis et al. 2009
2.5	+	cold period in the Benguela Upwelling System	Leduc et al. 2010
2.0	-	SST maximum	Leduc et al. 2010
2.0	-	δ^{18} O signals of mollusc shells in the southern Benguela region	Cohon et al. 1992
2.0	_	, , , , , , , , , , , , , , , , , , ,	Cohen et al. 1992
2.0		SST-records of different cores sharp decline in $T\delta^{18}O$	Meisel et al. 2011
< 2.U	+		Meisel et al. 2011
> 1.9	+	SST had decreased from 18°C to 14.5°C	Emeis et al. 2009
1.9 - 0.5	-	SST stepped up by 1.5°C	Emeis et al. 2009
1.3	-	shell, Sandwich Bay	this study, Sandwich Bay
0.7	-	SST maximum	Leduc et al. 2010
0.65	+	surface waters on the eastern Agulhas Bank were colder	Cohen and Tyson 1995
0.65 - 0.5	+	early stage of Little Ice Age (LIA), intensified upwelling	Meisel et al. 2011
0.64	+	high nutrient supply	Zhao et al. 2017
0.5	+	aragonite:calcite-ratio	Cohen et al. 1992
0.5	-	Tδ ¹⁸ O increase, rising NADW-formation and elevated Agulhas heat transfer	Emeis et al. 2009
0.45	-	multicore samples	Emeis et al. 2009
0.36	-	shell, Conception Bay	this study, Conception Bay
	_	shell, Conception Bay	this study, Conception Bay
0.3			this study, Conception Bay
	-	shell, Conception Bay	this study, conception bay
0.3	-	shell, Conception Bay shell, Conception Bay	this study, Conception Bay
0.3 0.3			
0.3 0.3 0.161	-	shell, Conception Bay	this study, Conception Bay
0.3 0.3 0.161 0.161	-	shell, Conception Bay shell, Conception Bay	this study, Conception Bay this study, Conception Bay