

SMO station TUTUILA	Monthly mean X_{CO_2} (Mar 2015)	ppm	398.4					
	Annual mean X_{CO_2} (Jul 2014–Jul 2015)		397.3 (SD = 0.8)					
		Unit	WMA		EMA		WGY	
			Mean	SD	Mean	SD	Mean	SD
	Monthly mean $p_{\text{CO}_2}^{\text{atm}}$ (March 2015)	μatm	383.0		382.7		382.5	
Mean values measured in the MLD (austral summer conditions, March 2015)	CT	$^{\circ}\text{C}$	28.9	0.3	29.3	0.3	29.5	0.4
	Sp		35.0	0.1	35.1	0.2	35.1	0.1
	nDIC	$\mu\text{mol kg}^{-1}$	1974.6	9.5	1983.9	8.6	1993.6	3.2
	nAlk	$\mu\text{mol kg}^{-1}$	2333.7	1.9	2343.1	8.0	2347.7	6.1
	$n p_{\text{CO}_2}^{\text{oc}}$	μatm	366	11	376	8	390	6
Mean values at 70 m (estimated austral winter MLD conditions)	CT	$^{\circ}\text{C}$	25.3	0.2	24.8	0.8	26.2	0.9
	Sp		35.5	0.0	35.7	0.0	35.7	0.0
	nDIC	$\mu\text{mol kg}^{-1}$	2007.5	3.0	2009.6	9.6	2008.9	3.7
	nAlk	$\mu\text{mol kg}^{-1}$	2332.4	5.0	2344.1	6.5	2350.8	2.7
	$n p_{\text{CO}_2}^{\text{oc}}$	μatm	372	10	355	15	364	8
Austral winter (July 2014) temperature at surface from MODIS Aqua	SST	$^{\circ}\text{C}$	24.9	0.2	24.2	0.7	26.5	0.2
Mean climatological austral winter values at surface (from Takahashi et al., 2014)	SST	$^{\circ}\text{C}$	23.9	0.0	24.4	0.1	25.1	0.1
	SSS		35.5	0.0	35.5	0.0	35.6	0.1
	DIC	$\mu\text{mol kg}^{-1}$	2006.4	0.7	2000.9	3.0	2004.7	9.9
	Alk	$\mu\text{mol kg}^{-1}$	2335.4	0.2	2333.6	1.7	2343.4	8.6
	$p_{\text{CO}_2}^{\text{oc}}$ at surface	μatm	344	1	345	4	349	7
Mean climatological austral winter $p_{\text{CO}_2}^{\text{oc}}$ at surface calculated with different temperatures	T from OUTPACE, mean CT at 70 m depth	μatm	366		353		368	
	SST from MODIS Aqua	μatm	361		344		371	