Nr	Question	Answer		
1	Eqs. (4) & (5): insert full lower and upper summation indices (7));	Corrected		
2	P. 696, line 13: remove colon after "where" (cf. also p. 699,	Corrected		
3	P. 697, line 7: $\Delta \rho = \pm (0.1 \text{ to } 0.3) \text{ kg} \cdot \text{m}^{-3} \text{ or } \Delta \rho / \rho = \pm (0.01 \text{ to } (\text{several times});$	Corrected		
4	P. 698, Eqs. (6) & (7): It is unlucky to chose the symbols A, denote the temperature dependent coefficients, because A an	Corrected		
	already been used to denote the functions in Eqs. $(4)$ & $(5)$ . The same is true for the coefficients in the polynomials. Maybe, one can use			
	additional subscripts. Please check compatibility of summati			
	in Eq. (7). B and C contain a temperature-independent term,			
	not. Is this correct? Summation indices in Eq. (12) are wrong, if the summation indices in Eq. (7) are correct and vice versa			
5	P. 700, Eqs. (14) & (15): The term $\alpha_T = \gamma$ should be introduce	Corrected to		
	isochoric thermal pressure coefficient by $\alpha_{\rm T} = (\partial p / \partial T)_{\rho}$ . En	nsure self-	$lpha_{ m p}$	
	consistency of annotation.			
6	P. 700, line 19: shown in Fig. 11;	1	Corrected	
/	P. 700, Eq. (16): Measurement variable is density, but not vo $\left(\frac{\partial n}{\partial n}\right)$	olume, I.	Corrected	
	e. $p_{\text{int}} = T \left( \frac{\partial p}{\partial T} \right)_{\rho} - p$			
8	P. 701, Eq. (17): With consideration of Eq. (8) the bulk	$K = k_T^{-1}$ . Yes this is		
	modulus is defined as $K = -V \left(\frac{\partial p}{\partial V}\right)_T = \rho \left(\frac{\partial p}{\partial \rho}\right)_T = k_T^{-1}$ .	correct and we have also same results. Se-		
	Thus, the values of both K and $k_T$ should contain the same	cant bulk	modulus re-	
	information (Figs. 7 & 13). What motivates the use of se-	quires def	inition of	
	cant bulk modulus according to Eq. (17) instead of tangent	both $(p, v)$ ,	but also only	
	bulk modulus? Secant bulk modulus requires definition of	$v_0$ . The value $v_0 = 1/\rho_0$ ar	e the extrano-	
	both $(p, V)$ and $(p_0, V_0)$ . What is assumed for $p_0$ in Eq. (17)	lated resul	ts to $p=0.101$	
	1	MPa.		
9	Whole paragraph from p. 701, line 19 to p. 703, line 6:	In the tabl	e form it is	
	Message is clear. But a data synopsis/survey is, perhaps,	difficult to	o write all	
	text.	form is ea	sy for this	
		moment.		
10	P. 703, line 7-10: Either split or restructure this sentence	Corrected		
11	(two verbs).	<b>XX</b> 7 '11	.1. 1	
	For all Figures: Have the authors considered to present their results in form of isoline or isosurface plots are on	we will us	se this remark	
	the abscissa the temperature on the ordinate the pressure	next paper	rs A lot Fig-	
	the value of the two-dimensional function as isolines or a	ures in thi	s manuscript	
	surface? This would allow to show the details of the	has same of	crossing. Be-	
	(nonlinear) polynom surface with fine temperature and	cause, sea	water has	
	pressure resolution. For example, in Fig. 2 the value of	same anor	nalies like as	
	$\partial A/\partial \rho$ changes sign at temperatures somewhere in the middle of temperature range	pure water	r.	
	iniquie of temperature failge.			

## SC C92: 'Short comment', Olaf Hellmuth, 08 May 2009

	(The many symbols are difficult to separate from each	
	other for weak eyes such as my's).	
12	Fig. 6: How can this figure be interpreted? Fixing pressure, then the scatter along the ordinate originates from the tem- perature range? Is there a systematic deviation or trend in dependence on temperature? Or is the error scatter irrele- vant because of the absolute smallness of the error?	In this figure the per- centage deviation of results obtained by fit- ting by equation of state and experimental results in the experi- mental temperature and pressure are shown. The experimental re- sults is in zero line.