

Two-term Reynolds–McCormick phase function parameterization better describes light scattering by microalgae and mineral hydrosols: supplement

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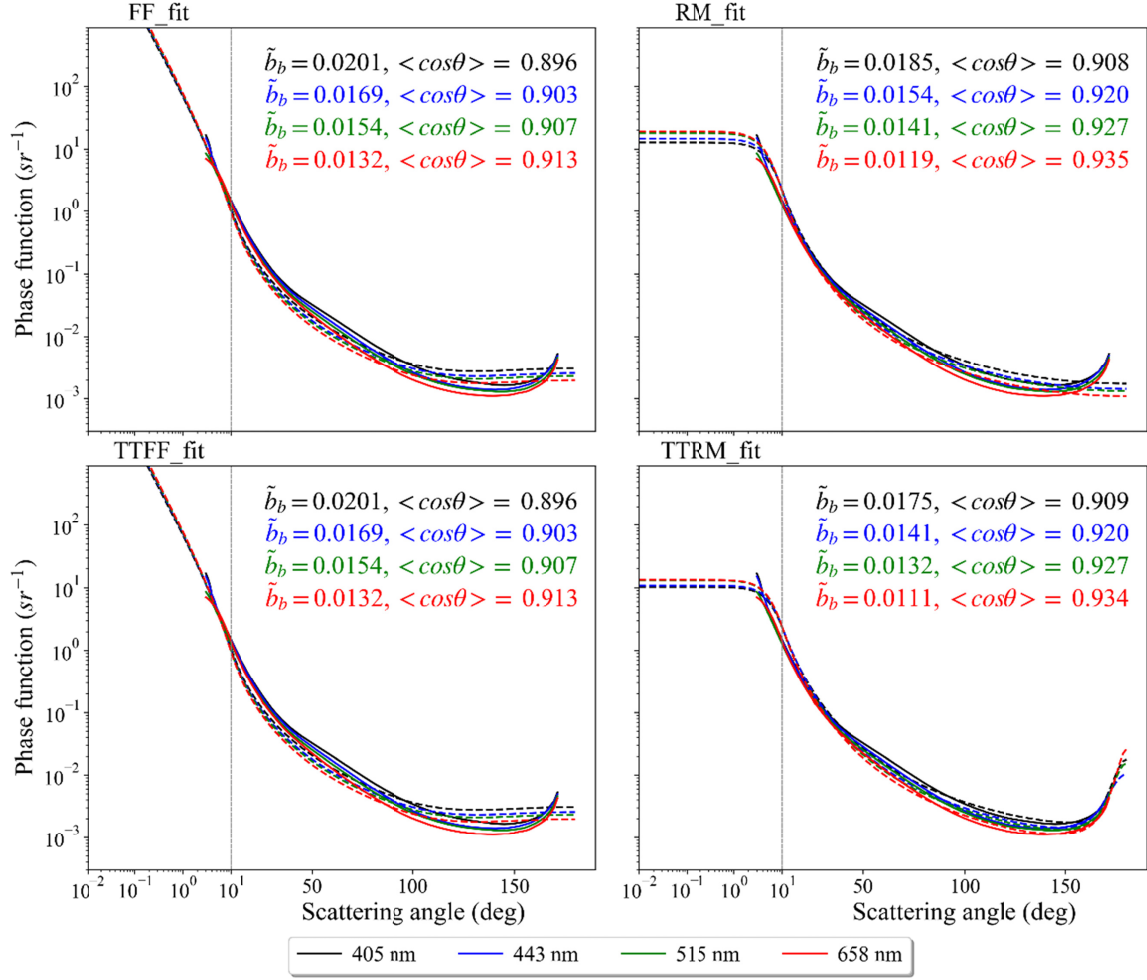
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In this supplemental document, we first specify the bound constraints values used for each phase function model. Then, the fitting results are shown for each hydrosol sample individually as a generalization of Fig. 1. Note that the following figures also provide the backscattering ratio and asymmetry parameter retrieved based on the four fitting models, respectively.

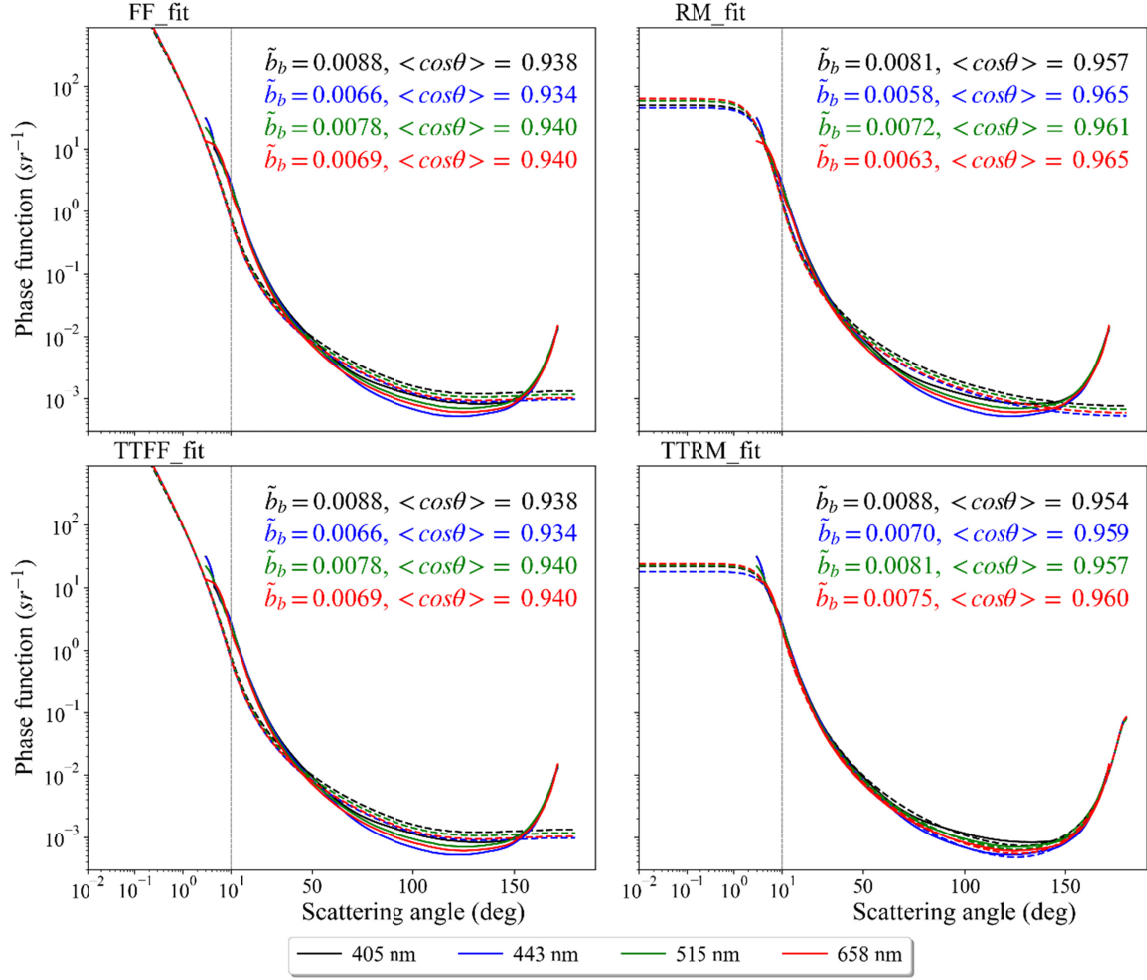
Values used as bound constraints in the fitting procedure for each phase function model:

MODEL	PARAMETERS	LOWER BOUND	UPPER BOUND
FF	n	0.8	1.35
	m	3.5	5
RM	g	-1	1
	α	-0.5	2.5
TTFF	γ	0	1
	n_1	0.8	1.35
	m_1	3.5	5
	n_2	0.8	1.35
	m_2	3.5	5
TTRM	γ	0	1
	g_1	0	1
	α_1	-0.5	2.5
	g_2	-1	0
	α_2	-0.5	2.5

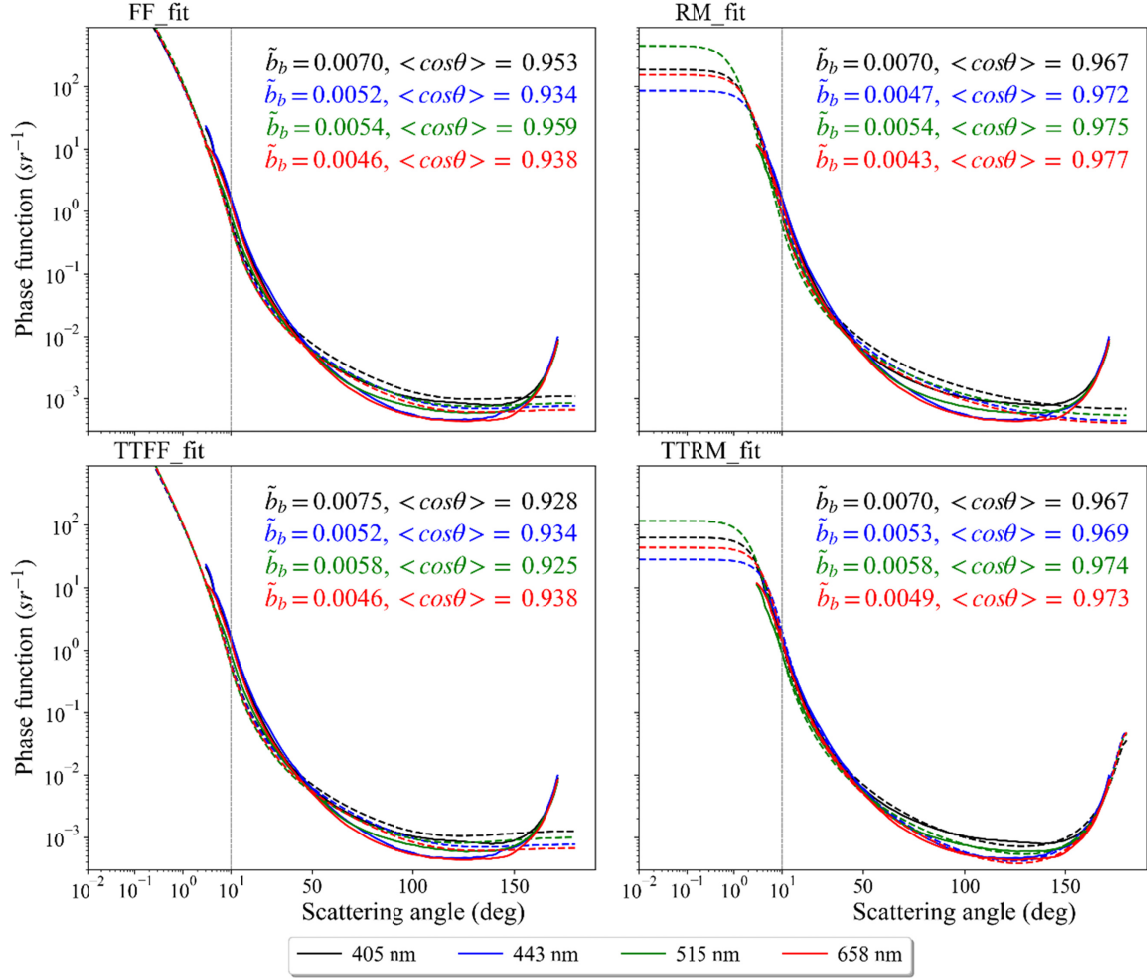
Arizona dust

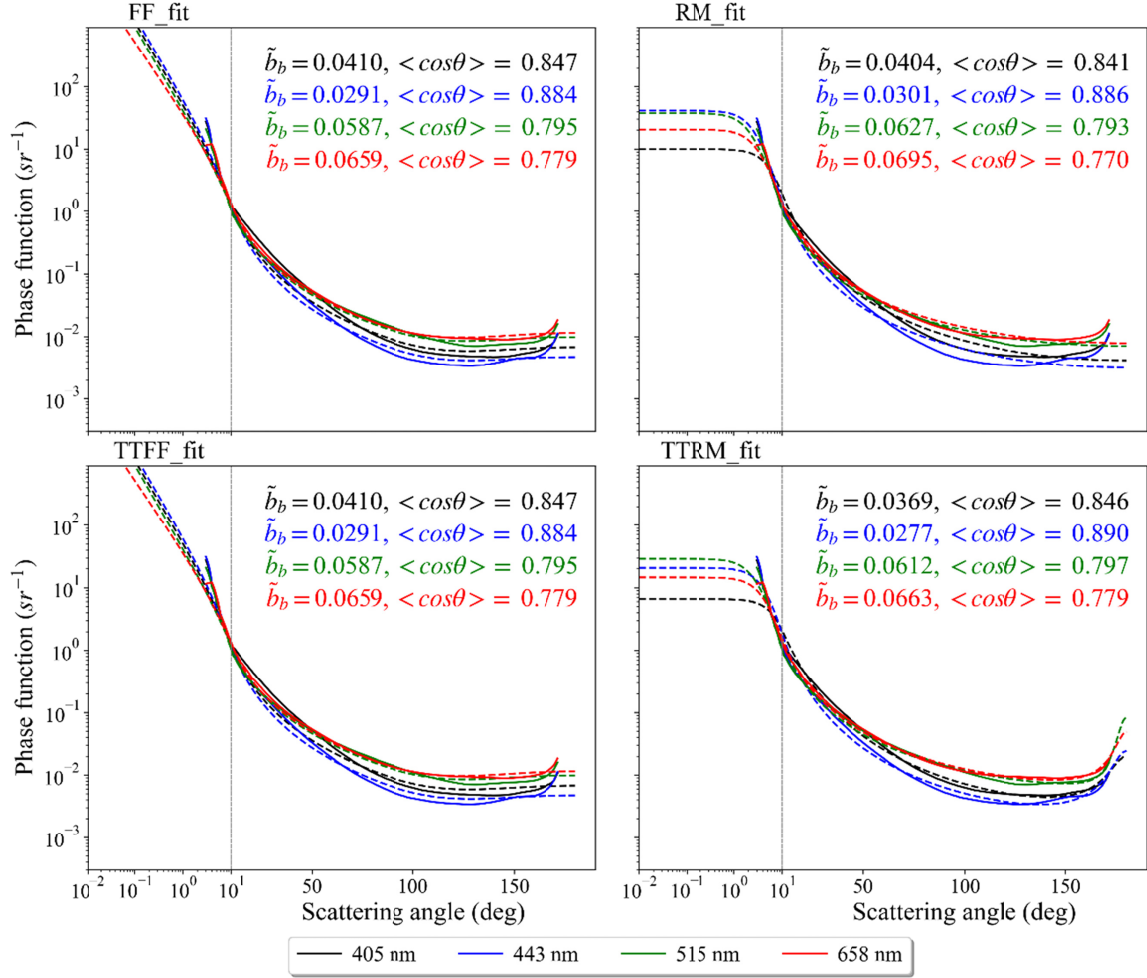


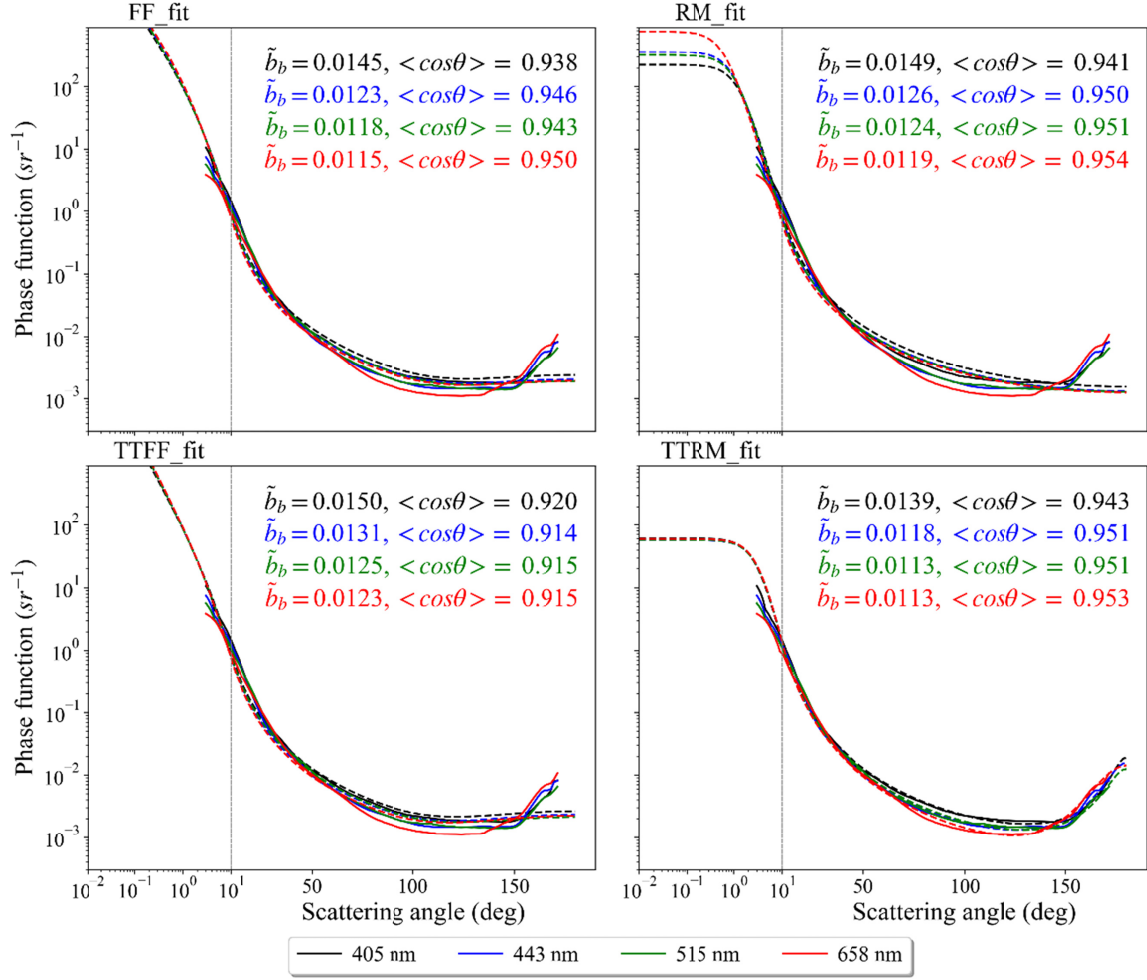
C. autotrophica



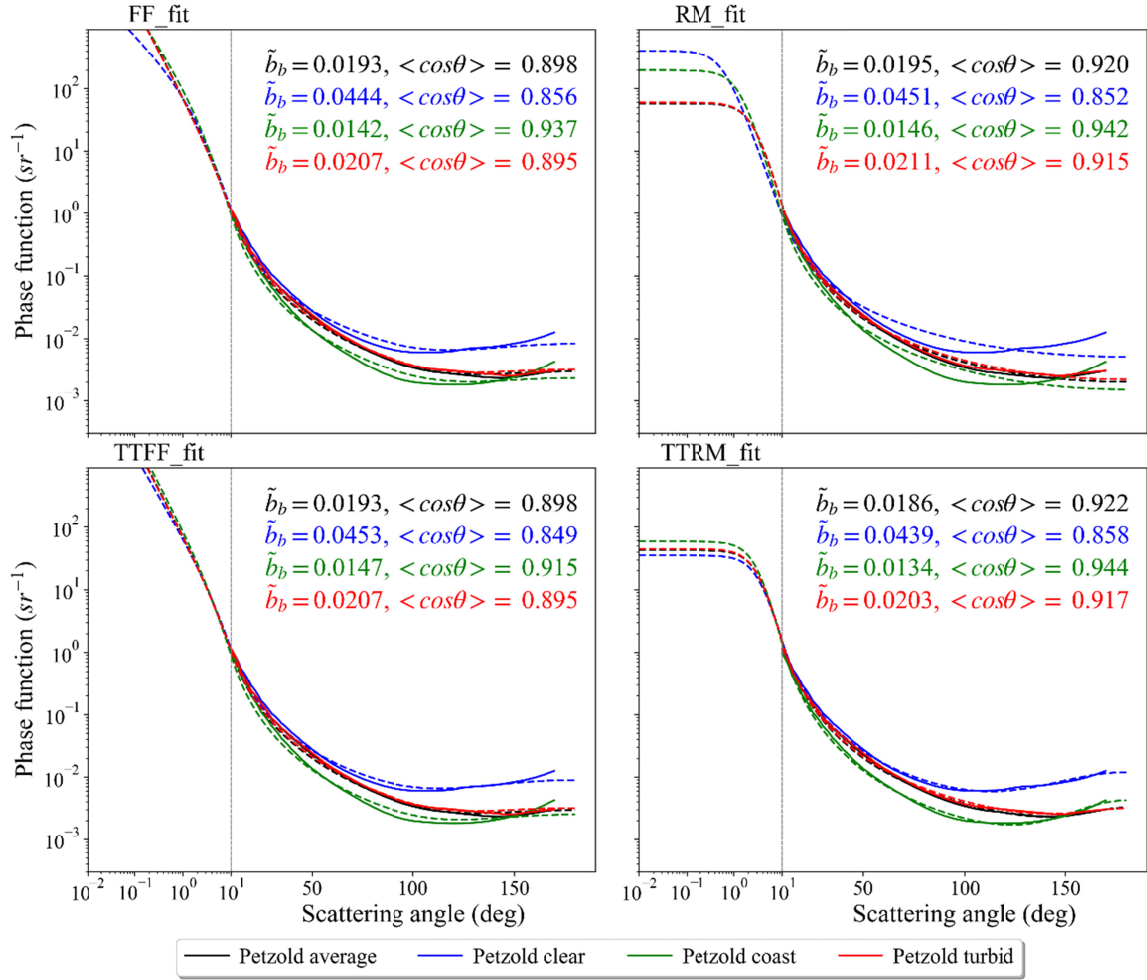
C. closterium







Petzold measurements



S. cf. costatum

