

Level	Parameter	Model	Type
0	$R_{rs}^{0-}(\lambda)$	$R_{rs}^{0-}(\lambda) = \frac{R_{rs}^{0+}(\lambda)}{0.52+0.17 \times} R_{rs}^{0+}(\lambda)$	Semi-analytical
1A	$u(\lambda)$	$u(\lambda) = \frac{-g_0 + [g_0^2 + 4 \times g_1 \times R_{rs}^{0-}(\lambda)]^{0.5}}{2 \times g_1}$ $\rho = \log_{10} \left( \frac{R_{rs}^{0-}(\lambda_0)}{R_{rs}^{0-}(671)} \right)$ $g_0 = 0.0788 \text{ and } g_1 = 0.2379 \text{ for } \rho < 0.25$ $g_0 = 0.0895 \text{ and } g_1 = 0.1247 \text{ for } \rho \geq 0.25$	Semi-analytical
1B	$a_{tnw}(\lambda_0)$ $\lambda_0 = 551 \text{ or } 555$ $\lambda_1 = 671$	$a_{tnw}(\lambda_0) = \begin{cases} 10^{(0.139 - 1.788 \times \rho + 0.490 \times \rho^2)} & \text{if } \rho < 0.25 \\ 10^{(0.406 - 2.940 \times \rho + 0.928 \times \rho^2)} & \text{if } \rho \geq 0.25 \end{cases}$ $\rho = \log_{10} \left( \frac{R_{rs}^{0-}(\lambda_0)}{R_{rs}^{0-}(\lambda_1)} \right)$	Empirical
1C 0	$b_{btw}(\lambda_0)$	$b_{btw}(\lambda_0) = \frac{(a_{tnw}(\lambda_0) + a_w(\lambda_0)) \times u(\lambda_0)}{1 - u(\lambda_0)} - b_{bw}(\lambda_0)$	Analytical
1	$\eta$	$\eta = -0.566 - 1.395 \times \log_{10}(b_{btw}555)$	Empirical
2	$b_{bt}(\lambda)$	$b_{bt}(\lambda) = b_{bw}(\lambda) + b_{btw}(\lambda_0) \times \left( \frac{\lambda_0}{\lambda} \right)^\eta$	Semi-analytical
3	$a_t(\lambda)$	$a_t(\lambda) = b_{bt}(\lambda) \times \left( \frac{1 - u(\lambda)}{u(\lambda)} \right)$	Analytical
SPM models			
This study		$SPM = (103.07 \times b_{btw}532) + 0.24$	Empirical
D'Sa et al. (2007)		$SPM = (106.93 \times b_{btw}555) + 0.61$	Empirical
Nechad et al. (2010)		$SPM = \left( \frac{A^\rho \times \rho_w}{1 - \rho_w / C^\rho} \right) + B^\rho;$ <p>where <math>A^\rho = 373.79 \text{ mg L}^{-1}</math>, <math>B^\rho = 1.47 \text{ mg L}^{-1}</math>, <math>C^\rho = 0.1747</math> for <math>\lambda = 670 \text{ nm}</math></p>	Empirical