

## **Suspended Particulate Matter Formation And Accumulation In The Delta From Monitoring To Modelling**

Safar, Z.

**DOI**

[10.4233/uuid:17d027d9-9667-4afa-89b9-aacd557a41ac](https://doi.org/10.4233/uuid:17d027d9-9667-4afa-89b9-aacd557a41ac)

**Publication date**

2022

**Citation (APA)**

Safar, Z. (2022). *Suspended Particulate Matter Formation And Accumulation In The Delta: From Monitoring To Modelling*. [Dissertation (TU Delft), Delft University of Technology].  
<https://doi.org/10.4233/uuid:17d027d9-9667-4afa-89b9-aacd557a41ac>

**Important note**

To cite this publication, please use the final published version (if applicable).  
Please check the document version above.

**Copyright**

Other than for strictly personal use, it is not permitted to download, forward or distribute the text or part of it, without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license such as Creative Commons.

**Takedown policy**

Please contact us and provide details if you believe this document breaches copyrights.  
We will remove access to the work immediately and investigate your claim.

# Propositions

*Accompanying the dissertation*

*Suspended Particulate Matter formation and  
accumulation in the Delta*

*By*

*Zeinab Safar*

1. To model flocculation in natural environments the standard Population Balance Equation (PBE) is not adequate, due to the dominant role of organic matter in flocculation (this thesis).
2. The effect of organic matter on flocculation can best be described using a logistic growth theory (this thesis).
3. To model interactions between the SPM particle classes, organic matter content needs to be incorporated as a parameter in large scale sediment transport models (this thesis).
4. Flocculation models based on current Particle Size Distribution (PSD) are biased, because in-situ particles are not spherical as it is assumed in the calculation of PSD (this thesis).
5. In order to reduce stress during the PhD, more flexibility and better communication with the graduate school would be an asset.

6. Competition within the academic world prevents team spirit.
7. Combination of in-situ monitoring techniques should be used to properly assess both composition and structure (shape, density) of particles.
8. Due to Covid-19 home quarantine, people started to think differently about life and take responsibility towards society.
9. Covid-19 measures changed people's perception about working from home.
10. Finding an academic job after a PhD is a challenge that has to be worked on from the beginning of the PhD for instance by starting networking and learning how to present your work to your network.

*These propositions are regarded as opposable and defensible, and have been approved as such by the promotor prof. dr. J.D. Pietrzak and dr. C. Chassagne.*