



Marcel J.F. Stive

Professor Stive, since March 2017 emeritus professor, has plus 40 years experience in research and consultancy projects in the fields of hydraulic engineering, coastal morphodynamics, coastal bio-geomorphology and coastal and estuarine management, as team member, as team leader and as advisor. His record involves coasts, estuaries, harbours and offshore projects in many countries in Europe, Asia, Africa and the Americas, using fieldwork, experimental physical and mathematical physical models. He was involved in several projects sponsored by the science and technology programmes of the EU, of two of which he was overall co-ordinator. Moreover, he spent two years as visiting professor on the Universitat Polytechnica de Catalunya, and was part-time professor Coastal Morphodynamics at Delft University of Technology from 1994 to 2001. In 2001 he accepted the fulltime chair of Coastal Engineering at the Faculty of Civil Engineering and Geosciences of Delft University of Technology and in 2009 he became Department Head of Hydraulic Engineering. Between 2003 and 2010 he was scientific director of the Water Research Centre of Delft University of Technology, and from 2006 until 2012 he was leading the EU Erasmus Mundus MSc programme on Coastal and Marine Engineering and Management CoMEM). He was a member of the New (A.K.A. Second) Delta Committee for the Netherlands (2007-2008), of the Board of Trustees of the Netherlands Centre for Coastal Research (1998-2008), of the National Advisory Committee on Water Defence (1996-2017), of the Scientific Advisory Council of Deltares (2009-2018) and of the International Conference Councils for the ICCE (2004-2014) and for Coastal Dynamics (1994-present). He was advisor to the Vietnamese Government on sustainable development of the Greater Mekong Delta Region (2010-2014), and to the Myanmar Government on sustainable development of the national water system (2013-2017), and held an ERC Advanced Research Grant for the NEMO Project (2012-2017). He was and is still appointed to research positions both in Shanghai (East China Normal University) and in Nanjing (Hohai University). He has written many publications on a variety of topics, ranging from geology to hydraulic engineering and coastal zone management. Chapter 6 of the IPCC 4th Assessment Report contains 11 references to his publications. He is contributing author to Chapter 5 of the IPCC 5th Assessment Report, which contains 4 references to his publications. His current Google H-index is plus 50. In 2012 he received an Honorary Doctorate from Lund University, Sweden. In 2013, he was knighted in the Order of the Dutch Lion. In 2014 he received the Coastal Sediments Award, in 2015 the ASCE Coastal Award and in 2018 the Friendship Award of Jiangsu Province, P.R. China. He is considered the "father" of the "Sand Engine", a Building with Nature iconic project. He has supervised 12 postdocs, 36 Delft PhD and 4 Dutch (Groningen, Utrecht and Maastricht) PhD dissertations and in the order of 400 MSc theses, all of this only possible with the aid of his amazing staff.

Positions, awards, research and publications

<https://orcid.org/0000-0002-9820-6351>

Publications

<https://pure.tudelft.nl/portal/en/searchall.html?searchall=stive>

<http://kennisbank-waterbouw.tudelft.nl/dicea/Staff/Stive.html>

<https://orcid.org/0000-0002-9820-6351>

<https://www.narcis.nl/search/Language/en/uquery/stive>

<https://www.mendeley.com/profiles/marcel-stive/stats/?viewAsOther=true>

<https://www.mendeley.com/profiles/marcel-stive/?viewAsOther=true>

Repository TUDelft (MSc and PhD theses, publications etc)

<https://repository.tudelft.nl/islandora/search/contributor%3Astive>

MSc theses

[https://repository.tudelft.nl/islandora/search/contributor:Stive,%20M.J.F.?collection=education&f\[0\]=mods_genre_s%3A%22master%5C%20thesis%22](https://repository.tudelft.nl/islandora/search/contributor:Stive,%20M.J.F.?collection=education&f[0]=mods_genre_s%3A%22master%5C%20thesis%22)

PhD theses

[https://repository.tudelft.nl/islandora/search/contributor:Stive,%20M.J.F.?collection=research&f\[0\]=mods_genre_s%3A%22](https://repository.tudelft.nl/islandora/search/contributor:Stive,%20M.J.F.?collection=research&f[0]=mods_genre_s%3A%22)

doctoral%5C%20thesis%22

Wikipedia

https://nl.wikipedia.org/wiki/Marcel_Stive

https://en.wikipedia.org/wiki/Marcel_Stive

Nieuwe Delta commissie, a.k.a. Tweede Delta Commissie

http://www.deltacommissie.com/commissie/leden/marcel_stive

Zand motor

https://nl.wikipedia.org/wiki/Zandmotor_DeltaDuin

https://en.wikipedia.org/wiki/Sand_engine

<https://www.delta.tudelft.nl/article/exhibiting-photographer-sam-rentmeester-simple-often-better>

Employment

Coastal Engineering

Delft University of Technology

1 Mar 2017 → 1 Mar 2027

Research outputs

A hybrid model framework for wave attenuation by flexible vegetation in current-wave flows

Ye, W., Hu, Z., Phan, K. L. & Stive, M., 2026, In: Ocean Engineering. 347, 17 p., 123975.

Laboratory experiment on the impact of wind on water turbulence in shallow areas

Yao, P., Pu, J., Chen, Y., Su, M., Stive, M. J. F. & Wang, Z., 2025, In: Coastal Engineering. 200, 16 p., 104765.

Suspension dynamics of sand-silt mixtures: experimental insights and modelling implications

Qiao, Z., Chen, Y., Yao, P., Su, M., Stive, M., Ren, L. & Wang, Z., 2025, In: Journal of Hydrology. 661, 13 p., 133836.

A Model Of Wave Attenuation In Vegetated Environments

Phan Khanh, L., Truong Hong, S. & Stive, M., 2024. 3 p.

In memoriam Bill (Jan Willem – John William) Kamphuis

Mulligan, R. P., McKee Smith, J. & Stive, M. J. F., 2024, In: Coastal Engineering. 188, 2 p., 104446.

Experimental investigation of wave attenuation by mangrove forests with submerged canopies

Zhang, R., Chen, Y., Lei, J., Zhou, X., Yao, P. & Stive, M. J. F., 2023, In: Coastal Engineering. 186, 16 p., 104403.

Numerical Simulations of Effects of the Layout of Permeable Pile Groin Systems on Longshore Currents

Zhang, R., Chen, Y., Yao, P., Stive, M. J. F. & Zeng, J., 2023, In: Journal of Marine Science and Engineering. 11, 9, 18 p., 1823.

Design Considerations for Brushwood Fences Concerning Bathymetry and Fence Locations

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Erosion Behavior of Sand-Silt Mixtures: Revisiting the Erosion Threshold

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Managing mangroves and coastal land cover in the Mekong Delta

Phan, M. H. & Stive, M. J. F., 2022, In: *Ocean and Coastal Management*. 219, 17 p., 106013.

Morphodynamic changes in the Yangtze Estuary under the impact of the Three Gorges Dam, estuarine engineering interventions and climate-induced sea level rise

Cheng, H. Q., Chen, W., Li, J. F., Jiang, Y. H., Hu, X., Zhang, X. L., Zhou, F. N., Hu, F. X. & Stive, M. J. F., 2022, In: *Earth and Planetary Science Letters*. 580, 9 p., 117385.

Coastal Dynamics

Bosboom, J. & Stive, M. J. F., 2021, TU Delft OPEN Publishing. 580 p.

Laboratory data on wave propagation through vegetation with following and opposing currents

Hu, Z., Lian, S., Wei, H., Li, Y., Stive, M. & Suzuki, T., 2021, In: *Earth System Science Data*. 13, 10, p. 4987-4999 13 p.

Nature-based solutions for coastal engineering and management

Slinger, J., Stive, M. & Luijendijk, A., 2021, In: *Water (Switzerland)*. 13, 7, 976.

Numerical and small-scale physical modelling of wave transmission by wooden fences

Dao, H. T., Hofland, B., Suzuki, T., Stive, M. J. F., Mai, T. & Tuan, L. X., 2021, In: *Journal of Coastal and Hydraulic Structures*. 1, p. 1-21 21 p.

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Toimil, A., Losada, I. J., Nicholls, R. J., Dalrymple, R. A. & Stive, M. J. F., 2020, In: *Coastal Engineering*. 156, 13 p., 103611.

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Wang, Z., Townend, I. & Stive, M., 2020, In: *Water Science and Engineering*. 13, 1, p. 1-13 13 p.

A Laboratory Study of the Shallow Flow Field in a Vegetated Compound Channel

Truong, S. H., Phan, K. L., Stive, M. J. F. & Uijtewaal, W. S. J., 2020, *Estuaries and Coastal Zones in Times of Global Change: Proceedings of ICEC-2018*. Nguyen, K. D., Guillou, S., Gourbesville, P. & Thiébot, J. (eds.). Springer, p. 665-675 11 p. (Springer Water).

Dynamics of a Tidal Current System in a Marginal Sea: A Case Study of the Yellow Sea, China

Zhang, Q., Su, M., Yao, P., Chen, Y., Stive, M. J. F. & Wang, Z. B., 2020, In: *Frontiers in Marine Science*. 7, p. 1-20 20 p., 596388.

Experimental assessment of the flow resistance of coastal wooden fences

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Hydrodynamics and Sediment Transport at a Seasonal Inlet and Its Adjacent Beach: Cua Dai, Vietnam

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Morphodynamics of a seasonal inlet: A case study using remote sensing and numerical modelling for cua dai inlet, central vietnam

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Tidal Wave Propagation in the Flat Basin Under Wind Monsoon Climate

Phan, H. M., Reniers, A. J. H. M., Stive, M. J. F. & Ye, Q., 2020, *Estuaries and Coastal Zones in Times of Global Change: Proceedings of ICEC-2018*. Nguyen, K. D., Guillou, S., Gourbesville, P. & Thiébot, J. (eds.). Springer, p. 379-388 10 p. (Springer Water).

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Nguyen, T. H., Hofland, B., Chinh, V. D. & Stive, M., 2020, In: *Water (Switzerland)*. 12, 6, 18 p., 1695.

Wind effects on the water age in a large shallow lake

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A Morphodynamic Modeling Study on the Formation of the Large-Scale Radial Sand Ridges in the Southern Yellow Sea

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From Coastal Genesis too NatureCoast

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Numerical modelling of hydrodynamics of permeable pile groins using SWASH

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The effects of wave non-linearity on wave attenuation by vegetation

Phan, K. L., Stive, M. J. F., Zijlema, M., Truong, H. S. & Aarninkhof, S. G. J., 2019, In: *Coastal Engineering*. 147, p. 63-74 12 p.

The Estimation and Evaluation of Shoreline Locations, Shoreline-Change Rates, and Coastal Volume Changes Derived from Landsat Images

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Tidal wave propagation along The Mekong deltaic coast

Phan, H. M., Ye, Q., Reniers, A. J. H. M. & Stive, M. J. F., 2019, In: *Estuarine, Coastal and Shelf Science*. 220, p. 73-98 26 p.

Laboratory validation of SWASH longshore current modelling

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Modelling of bed sediment composition changes at the lower shoreface of the Sand Motor

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Cross-shore stratified tidal flow seaward of a mega-nourishment

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Beach Evolution Adjacent to a Seasonally Varying Tidal Inlet in Central Vietnam

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Enhancing eco-engineering of coastal infrastructure with eco-design: Moving from mitigation to integration

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Horizontal Circulation Patterns in a Large Shallow Lake: Taihu Lake, China

Liu, S., Ye, T., Wu, S. & Stive, M., 2018, In: *Water*. 10, 6, 27 p., 792.

Modelling tidal-induced sediment transport in a sand-silt mixed environment from days to years: Application to the Jiangsu coastal water, China

Yao, P., Su, M., Wang, Z., van Rijn, L. C., Zhang, C. & Stive, M., 2018, In: *Coastal Engineering*. 141, p. 86-106 21 p.

Wave Damping due to Wooden Fences along Mangrove Coasts

Dao, T., Stive, M. J. F., Hofland, B. & Mai, T., 2018, In: *Journal of Coastal Research*. 34, 6, p. 1317-1327 11 p.

Estuarine Mangrove Squeeze in the Mekong Delta, Vietnam

Truong Hong, S., Ye, Q. & Stive, M. J. F., 1 Jul 2017, In: *Journal of Coastal Research: an international forum for the Littoral Sciences*. 33, 4, p. 747-763 17 p.

Als de duinen breken: Once the Dunes Breach

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The initial morphological response of the Sand Engine: A process-based modelling study

Luijendijk, A. P., Ranasinghe, R. W. M. R. J. B., de Schipper, M. A., Huisman, B. A., Swinkels, C. M., Walstra, D. J. R. & Stive, M. J. F., 1 Jan 2017, In: *Coastal Engineering*. 119, p. 1-14 14 p.

Exploratory morphodynamic hindcast of the evolution of the abandoned Yellow River delta, 1578-1855

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Response in the mekong deltaic coast to its changing sediment sources and sinks

Phan, H., Reniers, A., Ye, T. & Stive, M., 2017, *Proceedings of Coastal Dynamics 2017: Helsingør, Denmark*. Aagaard, T., Deigaard, R. & Fuhrman, D. (eds.). p. 311-322 Paper No. 225

Short-term mudflat dynamics drive long-term cyclic salt marsh dynamics

Bouma, T. J., van Belzen, J., Balke, T., van Dalen, J., Klaassen, P., Hartog, A. M., Callaghan, D. P., Hu, Z., Stive, M. J. F., Temmerman, S. & Herman, P. M. J., 1 Nov 2016, In: *Limnology and Oceanography*. 61, 6, p. 2261-2275 15 p.

Mekong delta: drought and erosion

Stive, M., Jun 2016, In: *TU Delft DeltaLinks*. 3 p.

Small scale bedform types off the south-holland coast

Meirelles Nunes Da Rocha, S., Henriquez, M., Souza, A. J., Horner-Devine, A. R., Pietrzak, J. D., Rijnsburger, S. & Stive, M. J. F., 1 Mar 2016, In: *Journal of Coastal Research: an international forum for the Littoral Sciences*. 1, 75, p. 423-426 4 p.

Development and Extension of An Aggregated Scale Model: Part 1 – Background to ASMITA

Townend, I., Wang, Z. B., Stive, M. & Zhou, Z., 2016, In: China Ocean Engineering. 30, 4, p. 483-504

Development and Extension of An Aggregated Scale Model: Part 2 – Extensions to ASMITA

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Exploratory morphodynamic modeling of the evolution of the Jiangsu coast, China, since 1855: Contributions of old Yellow River-derived sediment

Su, M., Yao, P., Wang, Z., Zhang, C. K. & Stive, M., 2016, In: Marine Geology. 58 p.

Initial spreading of a mega feeder nourishment: Observations of the Sand Engine pilot project

de Schipper, M., de Vries, S., Ruessink, G., de Zeeuw, R., Rutten, J., van Gelder-Maas, C. & Stive, M., 2016, In: Coastal Engineering. 111, May, p. 23-38 16 p.

Meester van de Zee

Rijcken, T. (Photographer), Stive, M. (Other) & de Vriend, H. (Other), 3 Mar 2015

Conversion of electro-optical signals to sediment concentration in a silt-sand suspension environment

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Analysis of embayed beach planform stability in Danang, Vietnam

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Coastal mangrove squeeze in the Mekong Delta

Phan Hien, V., van Thiel de Vries, J. & Stive, M., 2015, In: Journal of Coastal Research: an international forum for the Littoral Sciences. 31, 2, p. 233-243 11 p.

Experiment inspired numerical modeling of sediment concentration over sand-silt mixtures

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Human impacts on morphodynamic thresholds in estuarine systems

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Modelling dune erosion, overwash and breaching at Fire Island (NY) during hurricane Sandy

de Vet, P., McCall, R., den Bieman, J., Stive, M. & van Ormondt, M., 2015, *Proceedings of the coastal sediments 2015*. Wang, P., Rosati, J. & Cheng, J. (eds.). San Diego: World Scientific Publishing, p. 1-10 10 p.

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Vormgever van de kust: Delftse hoogleraar Marcel Stive krijgt twee internationale toponderscheidingen. Door Jac van Tuijn en Arjan Veering

Stive, M., 2015, 6 p.

Windows of opportunity for salt marsh vegetation establishment on bare tidal flats: The importance of temporal and spatial variability in hydrodynamic forcing

Hu, Z., van Belzen, J., vander Wal, D., Balke, T., Wang, Z., Stive, M. & Bouma, T., 2015, In: *Journal Of Geophysical Research-Biogeosciences*. 120, 7, p. 1450-1469 20 p.

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Effect of different forcing processes on the longshore sediment transport at the sand motor, the Netherlands

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Improving Oasis Beach: Creating a sustainable and attractive beach around hotel Oasis in Varadero, Cuba

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Laboratory study on wave dissipation by vegetation in combined current-wave flow

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Measured gradients in alongshore sediment transport along the Dutch coast

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Middle shoreface sand transport under the influence of a river plume

Meirelles, S., Horner-Devine, A., Henriquez, M., Stive, M. & Pietrzak, J., 2014, *Proceedings 13th International Coastal Symposium*. Green, A. & Cooper, J. (eds.). S.I.: Coastal Education & Research Foundation, p. 182-186 5 p.

Morphological development of a mega-nourishment; first observations at the sand engine

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Near-bottom currents on the middle shoreface in the presence of the Rhine River plume

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PIV measurements of the bottom boundary layer under nonlinear surface waves

Henriquez, M., Reniers, A., Ruessink, B. & Stive, M., 2014, In: *Coastal Engineering*. 94, p. 33-46 14 p.

The influence of sea state on formation speed of alongshore variability in surf zone sand bars

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Advection and diffusion of shore-attached sand nourishments

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Alles wordt gemonitord bij zandmotor. Artikel: Ad Tissink

Stive, M., 2013, 1 p.

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Stive, M. J. F. (Editor)
2006

Coastal Engineering (Journal)

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2006

Coastal Engineering (Journal)

Stive, M. J. F. (Editorial board member)
2004

Society and sea level rise requires modelling

Stive, M. J. F. (Advisor)
2004

Long term relationships between river sediment input and littoral bathymetric changes in a microtidal deltaic system (Rhône Delta, France)

Stive, M. J. F. (Speaker)
26 Oct 2003

Journal of Coastal Research: an international forum for the Littoral Sciences (Journal)

Stive, M. J. F. (Editorial board member)
2003

28th International Conference on Coastal Engineering, ICCE 2002

Stive, M. J. F. (Participant)
7 Jul 2002 → 12 Jul 2002

Coastal Engineering (Journal)

Stive, M. J. F. (Editor)
2002

Journal of Coastal Research: an international forum for the Littoral Sciences (Journal)

Stive, M. J. F. (Editor)

2002

Press/Media

Alles wordt gemonitord bij de Zandmotor

Stive, M.

15/05/13

1 item of Media coverage

Als de dijken breken

Pel, A. & Stive, M.

7/11/16 → 14/11/16

2 items of Media coverage

Brak beleid

Stive, M. J. F.

1/01/08

1 Media contribution

Can the “masters of the flood” help Texas protect its coast from hurricanes?

Stive, M.

15/07/19

1 item of Media coverage

Delft University coordinates five-year study beach nourishment with sand motor

Stive, M. J. F.

11/08/12

1 item of Media coverage

Deltawerken goed voor internationale imago. Interview door Bart van den Dikkenberg

Stive, M. J. F.

14/04/12

1 item of Media coverage

De natuur helpt ons altijd een handje. Interview: Joost Panhuijsen

Stive, M. J. F.

1/01/12

1 item of Media coverage

De relatie tussen wetenschap en politiek.

Stive, M. J. F.

1/01/05

1 Media contribution

De Zandmotor. Reporter Erik Kooyman

Stive, M. J. F.

1/01/14

1 Media contribution

Evaluatiejaar voor de zandmotor: Het grote bagger project als milieu vriendelijke kustverdediging

Stive, M.

19/01/16

1 item of Media coverage

Flooded Britain: how can Holland help? By Will Storr

Stive, M. J. F. & de Vriend, H. J.

26/04/14
1 item of Media coverage

Gepassioneerde onderzoekers vertellen over Zandmotor op TV West. Door redactie

Stive, M. J. F.
1/01/14
1 Media contribution

Het gezicht van de kust verandert; De zandmotor bij Kijkduin - 'bouwen met de natuur' - bevalt goed

Stive, M. J. F.
2/04/12
1 item of Media coverage

Hightech-onderzoek op een potvis van zand

Stive, M. J. F.
20/02/06
1 item of Media coverage

Innovatiepostzegels

Ghilardi, M., Schmehl, R., Bauer, P., van Nispen, C. J. D., Isabella, O., Kooij, R. E., Bidarra, A. R., Pronk, J. T., Klein Breteler, A. J., Bier, H. H., Stive, M. J. F., Kok, W. J. & Peña, K.
16/08/21 → 18/08/21
16 items of Media coverage

Internationale meetcampagne rondom Zandmotor

de Schipper, M. A. & Stive, M.
1/11/14
1 item of Media coverage

Is de Nederlandse rampenbestrijding voldoende voorbereid op grootschalige overstromingen?

Stive, M. J. F., Jonkman, S. N. & Vrijling, J. K.
1/04/05
1 item of Media coverage

Je kunt een ramp nooit volledig uitsluiten. Interview door Joost Panhuysen

Stive, M. J. F.
18/01/12
1 item of Media coverage

Kan dat eigenlijk wel, dijken die breken?

Stive, M.
29/11/16
1 item of Media coverage

Kunstmatig strand 'de Zandmotor' is vervuild

Stive, M.
23/01/19
1 item of Media coverage

Marcel Stive receives Coastal Sediments Coastal Award. Door redactie

Stive, M. J. F.
24/10/14
1 item of Media coverage

Marcel Stive: Vader van De Zandmotor

Stive, M.

1/03/16
1 item of Media coverage

Nederland onder water?

Stive, M. J. F.
1/01/13
1 Media contribution

Open Textbook: Enabling the continual transformation of coastal dynamics education

Bosboom, J. & Stive, M. J. F.
1/04/21 → 23/04/21
2 Media contributions

Protecting The Netherlands' Vulnerable Coasts With A 'Sand Motor'

Stive, M.
25/11/17
1 item of Media coverage

Stroming is nauwelijks veranderd

Stive, M. J. F.
27/03/13
1 item of Media coverage

Surfspektakel. Door Martijn van Calmthout

Stive, M. J. F. & de Vries, S.
22/03/14
1 item of Media coverage

Water is our Future: The Netherlands

Stive, M. & de Schipper, M.
9/11/17
1 Media contribution

Wie das Bröckeln der Küsten gestoppt wir

Stive, M.
1/03/17
1 item of Media coverage

Zandbankse zeewering. Door Cor Speksnijder

Stive, M. J. F., Radermacher, M., Hoonhout, B. M. & de Schipper, M. A.
15/11/14
1 item of Media coverage

Zandmotor is de grens over

Stive, M.
15/09/16
2 items of Media coverage

Zandmotor: revolutionaire kustbescherming? Door Karin van den Bogaert, Bart Meijer en Diederik Jekel

Stive, M. J. F.
1/01/14
1 Media contribution

Datasets/Software

Engineering: Building with Nature 101x video #02 - Why Building with Nature?

Stive, M. (Creator), de Vriend, H. (Creator) & Slinger, J. H. (Creator), TU Delft - 4TU.ResearchData, 31 Mar 2016

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