AA/a ala		Marris 2022	
		March 2023	
		asvlakte and Springertduinen	
-	11:45 12:00	Meeting at Stevinweg 1, Civil Engineering, Delft University of Technology.	
		Bus departs from Stevinweg 1 car park	
	12:45	Excursion Maasvlakte	
	14:15	Bus departs for the second excursion stop	
	14:45	Excursion Springertduinen	
	16:15 17.00	Bus return to TUDelft	
	17:00	Arrival at Stevinweg 1, Civil Engineering, Delft University of Technology	
	reaker	Maria Paulas Duffrage Coloure de contratto de 2020 PZ Dufft	
	0 – 22:00	Mooie Boules - Professor Schermerhornstraat 9, 2628 PZ Delft	
	sday 30 Ma		
	0 – 09:15	Registration	
	5 – 09:30	Opening – Bram van Prooijen	
09:3	0 – 10:00	Keynote 1: Incorporating Data Science and Climate in Coastal Engineering	
40.0		Fernando J. Méndez Incera (University of Cantabria)	_
	0 – 11:00	Poster session 1 & Coffee	Page
1		nt-Based modelling to explore human impact on sandy beaches in the Netherlands hshianlamouki	56
2	The social the Nether Vincent Ba	· · · · · · · · · · · · · · · · · · ·	57
3	The role of vegetated intertidal areas for salt intrusion mitigation  Jesse Bootsma		58
4	Cross-shor Bart Roest	e Distribution of Alongshore Sediment Transport in a Macro-tidal Environment	59
5	Footprint: first results of a three-vessel offshore windfarm sampling campaign  Johan Damveld		60
6	The effect of sediment grain size on dune erosion: a field experiment  Cato de Hullu		61
7		Fe Hoog: Anticipating for accelerating sea level rise in the spatial design of land-water via a participative design process it	62
8	Connectivi Tim de Wil	ty of sand mining regions in San Francisco Bay estimated using SedTRAILS de	63
9	Stochastic Floris de W	results from deterministic wave-resolving models /it	64
10	Biogeomorphological Evolution of Salt Marshes under Natural Conditions and the Influence of Artificial Structures on Marsh Resilience  Sarah Dzimballa		65
11	The origin Greg Fivas	of patterns on tidal flats and their role in marsh expansion h	66
12	Lower show	reface sand transport: offshore or onshore? ankemolle	67
13		ork to unify academic and applied approaches in coastal research and engineering in lizendoorn	68

14	The influence of bivalve shells on sediment transport: an experimental flume study  Steven Haarbosch	69
15	Longer-term morphological evolution of the Belgian coast in relation with the nearshore shelf Rik Houthuys	70
16	The impact of sea level rise and a changing discharge on salt intrusion in the Rhine Meuse Estuary Ymkje Huismans	71
17	How SANDsitive are seafloor animals in the Wadden Sea? Quantifying sandification sensitivity of Wadden Sea benthic communities  Tjitske Kooistra	72
18	How vegetated foreshores can contribute to limiting dike dimensions of sea dikes: a case study into the assessment and design procedure of including the quantitative effect of the foreshore in the flood defence system  Marit Lambers	73
19	Tracing Sand Nourishment Dispersal by Modelling Light Exposure History Stuart Pearson	74
20	Unravelling the drivers of salt marsh cliff initiation  Victoria Mason	75
21	Key research required for the safety assessment of the Dutch sandy coast Robert McCall	76
22	Large scale coastline modelling in Belgium for design and quick assessment of coastline adaptation Marco Moretto	77
23	The impact of tidal creeks on the morphology of a tidal flat  Jill Hanssen	78
24	Effect of sea level rise and artificial deepening on peak water levels in deep tidal channels Iris Niesten	79
25	Millimeter-scale beach topography measured with structure-from motion photogrammetry  Daan Poppema	80
26	Quantifying the effects of bedforms on basin-scale hydrodynamics  Laura Portos Amill	81
27	Duration of saltwater intrusion shapes freshwater trees' response to salt stress Eleonora Saccon	82
28	Estuarine salt-intrusion affected by changing channel depth and intertidal width Rutger Siemes	83
29	Conceptualizing aeolian sediment transport modes in a bio-geomorphological cellular automata model of the beach-dune system  Manuel Teixera Manion	84
30	Probabilistic design of green sea dike revetments: required thickness for revetment of local clay Vera van Bergeijk	85
31	Seabed sediment: from hand-drawn map to Al-generated model Sytze van Heteren	86
32	Multi-annual research program Management and Maintenance of the Dutch Coast  Niels Van Kuik	87
33	Unravelling sediment deposition in pioneer salt marshes through flume experiments  Thomas van Veelen	88
34	The method that despises the little is not worthy of the great: Dealing with the patchiness of vegetational effects on large scale flow	89

1	icollete V	olp	
		rvations of turbulent flow patterns and salinity variations in a stratified scour hole rahimi Erami	90
11:00 -	12:30	Session 1: Coastal risk & management – Chair: Laura Brakenhoff	Page
11:00 -	- 11:12	Integrated coastal management strategy for the Saint-Louis region, Senegal  Anouk de Bakker	18
11:13 -	- 11:25	How to explore the solution space of sandy strategies under accelerated sea-level rise Renske de Winter	19
11:26 -	- 11:38	A numerical flume for the pressures on clay erosion profiles for the Wide Green Dike Marisol Irias Mata	20
11:39 -	- 11:51	Simulating impacts of nourishment scenarios on decadal cross-shore dynamics  Tosca Kettler	21
11:52 -	- 12:04	Research for Coastal Policy and Practice – a case study on the policy process and the role of conceptual models  Quirijn Lodder	22
12:05 -	- 12:17	Visualising past landscapes to combat shifting baselines  Abigail Schiller	23
12:18 -	- 12:30	Coastal engineering benefits of sand nourishments at the shores of Walcheren (Southwest delta, the Netherlands)  Wietse van de Lageweg	24
12:30 -	13:15	Lunch	· •
13:15 –	14:45	Session 2: Estuaries – Chair: Stuart Pearson	Page
13:15 –	13:27	Salt intrusion in the Rhine-Meuse Delta under different river discharge scenarios  Bouke Biemond	25
13:28 –	13:40	Improving morphodynamic modelling using sand-mud interaction and morphologic metrics Ana Colina Alonso	26
13:41 –	13:53	Unravelling the morphodynamic and ecological functioning of tidal flats  Tim Grandjean	27
13:54 –	14:06	Dutch Wadden Sea as an Event-driven System: A Numerical Perspective Aditi Mitra	28
14:07 –	14:19	New concept of inlet connectivity helps understand role of tidal divides in double inlet systems  Pieter Roos	29
14:20 –	14:32	Long-term forecasting of dredging volumes in the Borndiep tidal basin  Tim van Engelen	30
	14:45	What are the causes for the unexpected high dredging volumes in the navigation channel	31
14:33 –	5	Boontjes in the Wadden Sea?  Julia Vroom	
14:33 - 14:45 -		-	
	15:15	Julia Vroom	Page
14:45 –	· 15:15 · 16:45	Julia Vroom  Coffee break	Page 32
14:45 – 15:15 –	15:15 16:45 15:27	Coffee break Session 3: Subtidal & Offshore – Chair: Johan Damveld Tidal plume fronts and recirculation in the near field Rhine River Plume during typical and extremely low river discharge conditions	

		Sem Geerts	
15:54 – 16:06		Nearshore bathymetry estimation at Puerto Rico from Sentinel-2 and hyperspectral PRISMA imagery using machine learning David Hartmann	35
16:07 – 16:19		What happened to the sandpit Simeon Moons	36
16:2	0 – 16:32	Efficient Modelling of Sand Wave Field Dynamics for Offshore Engineering Activities Pauline Overes	37
16:3	2 – 18:00	Young NCK: Walk and surprise	
	8:00 –	Drinks and Diner at Knus	
Friday	y 31 March	2023	
08:30	- 09:00	Registration	
09:00	- 09:10	Opening – José A. Á. Antolínez	
09:10 – 09:40 Keynote 2: : Fish Migration River - What happens when a fish ecologist and a civil engi start talking about a hole in the Afsluitdijk?			
09.41	0 – 10:45	Wouter van der Heij (Waddenvereniging)  Poster session 2 & Coffee	Page
1		rance of 2D effects on dune erosion during the 2022 winter storms at Maasvlakte II	91
	Ype Attem	<del>_</del>	
2	Investigatir Jadon Beer	ng Hydrogeological Feedback Mechanisms During Artificial Dune Development landt	92
3	Shoreface-connected sand ridges strongly affect decadal coastline evolution in a coupled shelf-shoreline system forced by waves and tides  Jan Boersma		93
4	Long-Term Marloes Bo	Morphological Modelling of Tidal Inlet Systems: Implementing Salt Marshes in ASMITA onenkamp	94
5	Initial deve Jorn Bosmo	lopment of a poorly sorted back-barrier beach nourishment	95
6	_	: Feasibility study towards sustainable sandbank maintenance echat Albernaz	96
7	Context an Laura Brak	d framework of the recent and future coastal management toolbox enhoff	97
8	Hydraulic le Jochem Cas	oad model for the Dutch coast spers	98
9	The Power and Limit of Building with Nature for the Venice Community  Giovanni Cecconi		99
10	SCALDIS COAST: A numerical modelling of 10-year for long-term morphology in the surfzone of the belgian coast using the telemac-mascaret system  Bart de Maerschalck		100
11	Biophysica Ibnu Faizal	Controls on Pollution Flows in Coral Reef MPAs	101
12	The respon	se of dominant vegetation species in saltmarsh to changes of inundation frequency	102
13	Understand Wouter Ge	ding coastal response to sea level rise in Northern Italy: a two-sided approach rats	103
14	Quantifying	g erosion of saltmarshes under storm conditions in a Living Dike	104

	Jos Muller	
15	Exploring multimodal wave conditions relevant to coastal processes on the Dutch shoreface Chris Hoogervorst	105
16	Development of tidal flats under sea level rise  Joanne Jenine Naidoo	106
17	Influence of channel bathymetry on subtidal salt transport processes and salt intrusion in single channel systems  Henk Jongbloed	107
18	Predicting morphodynamic long-term changes along the southern Rhode Island, USA, shoreline in the next decades  Alexa Leone	108
19	Understanding the Western Wadden Sea in terms of inlet connectivity: an exploratory modelling approach Wout Ploeg	109
20	A close look at the beach and dune sand for the Vlieland beach nourishment Laura Coumou	110
21	Modelling salt marsh dynamics for coastal safety by Living Dikes, a research approach Elien Sipma	111
22	Detecting turbid coastal features with satellite Earth Observation  Juliana Tavora Bertazo Pereira	112
23	Patterned coastal peatland ecosystems facing sea-level rise Archontoula Valsamidou	113
24	Dissemination of structurally monitored and up-to-date abiotic data in the Wadden Sea through a Digital System Reporting tool Falco van Bakel	114
25	Connecting dikes and vegetated foreshores at managed realignments  Kim van den Hoven	115
26	Coupled evolution of hydrodynamics and morphology in the western Dutch Wadden Sea Bart Grasmeijer	116
27	Quantifying complex relations between spit growth and its hydrodynamic drivers, in non-tidal, wind-dominated lake environments. Application to the Marker Wadden Niels van Kouwen	117
28	Guano-mediated island genesis in the Dutch Waddensea Floris van Rees	118
29	Recreation impact on the establishment of dune building species Sasja van Rosmalen	119
30	Coastal Vision: Assessing a long term coastal protection strategy for the Belgian Coast Bart Verheyen	120
31	MOZES: Research on the Morphological Interaction between the Sea Bottom and the Belgian Coastline Toon Verwaest	121
32	Preliminary analysis of salt intrusion observations during the extreme drought of 2022 Tess Wegman	122
33	Pathway analysis to support long-term coastal management Jakolien Leenders	123
34	A numerical study of aeolian sediment transport affected by moisture, using discrete element modelling	124

	Xiuqi Wang		
35	Visual mod	lelling of the development of a managed-realignment project	125
	Johan van		
10:45	5 – 12:15	Session 4: Ecology – Chair: Valérie Reijers	Page
	5 – 10:57	Response of dune-building grasses to summer precipitation  Jan-Markus Homberger	38
10:58	8 – 11:10	The effect of vegetation, sediment properties and inundation duration on the build-up of soil stability in salt marshes  Marte Stoorvogel	39
11:11	1 – 11:23	Optimal wave reflection as a mechanism for seagrass self-organization Roeland van de Vijsel	40
11:24	4 – 11:38	Biocompacting livestock accelerate drowning of tidal salt marshes with sea level rise Marinka van Puijenbroek	41
11:39	9 – 11:51	Preserving estuarine foraging habitats for shorebirds through sand nourishments Brenda Walles	42
11:52	2 – 12:04	Benthic macrofauna under extreme weather events: unraveling the response strategies from individual behavior to community structure in tidal flats Zhengquan Zhou	43
12:05	5 – 12:17	Potential ecosystem effects of large upscaling of offshore wind in the North Sea Luka Jaksic	44
12:17	7 – 13:00	Lunch	I
13:00	0 – 14:30	Session 5: Beaches and Dunes 1 – Chair: Glenn Strypsteen	Page
13:00	0 – 13:12	High-resolution grain size analysis using photos Casper Bakker	45
13:13	3 – 13:25	The effect of brushwood fences and marram grass on initial dune development Jennifer Derijckere	46
13:26	6 – 13:38	Parameter uncertainty in ShorelineS predictions of the Hondsbossche Dunes  Anna Kroon	47
13:39	9 – 13:51	Particle motion in the nearshore zone of sandy beaches- quantifying the role of horizontal and vertical processes  Emilia Zygarlowska	48
13:52	2 – 14:04	Longshore transport by tides and waves  Dano Roelvink	49
14:05	5 – 14:17	Sandy beaches in low-energy, non-tidal environments: Beaches of the Markermeer and IJsselmeer  Anne Ton	50
	8 – 14:30	Flume modelling to investigate the erosion of sand-mud mixtures under currents and waves in the laboratory and in Delft3D	51
14:18		Roy van Weerdenburg	
	) – 15:00	·	
14:30	) – 15:00 ) – 16:00	Roy van Weerdenburg	Page
14:30 15:00		Roy van Weerdenburg  Coffee break	Page 52
14:30 15:00 15:00 -	- 16:00	Roy van Weerdenburg  Coffee break  Session 6: Beaches and Dunes 2 – Chair: Paul Bayle  The development of a three-dimensional idealised model for estuarine hydrodynamics: iFlow3D	

	Jantien Rutten	
15:40 – 16:00	Big projects and prizes	
16:00	Closure – Bram van Prooijen	