

Supplementary Materials

Determining Long-Term Land Cover Dynamics in the South Baltic Coastal Zone from Historical Aerial Photographs

Andrzej Giza ^{1,*}, Paweł Terefenko ¹, Tomasz Komorowski ² and Paweł Czapliński ³

¹ Institute of Marine and Environmental Sciences, University of Szczecin, 70-383 Szczecin, Poland; pawel.terefenko@usz.edu.pl

² Institute of Management, University of Szczecin, 71-004 Szczecin, Poland; tomasz.komorowski@usz.edu.pl

³ Institute of Spatial Management and Socio-Economic Geography, University of Szczecin, 71-101 Szczecin, Poland; pawel.czaplinski@usz.edu.pl

* Correspondence: andrzej.giza@usz.edu.pl; Tel.: +48-91-444-24-32

Table S1. Land cover area percentages in each year for areas No 1–17 [%].

		Area No																
year	class	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2017	Water	48	52	49	52	36	23	17	25	42	54	62	64	63	60	64	64	65
	Sand	23	31	27	15	13	21	18	19	16	18	16	14	14	17	16	13	14
	Grass	10	3	6	5	14	13	10	8	11	4	3	2	2	4	5	2	7
	Tree	20	14	17	27	37	44	54	48	31	24	20	20	22	20	14	22	13
1996	Water	54	56	51	52	36	28	23	34	45	54	60	63	62	62	64	62	62
	Sand	26	30	32	25	26	28	28	29	24	21	21	19	18	18	17	14	21
	Grass	7	7	8	4	18	17	16	13	13	12	10	2	1	1	1	5	6
	Tree	12	7	8	20	19	26	33	24	18	12	10	16	19	18	17	19	11
1973	Water	62	63	62	67	32	31	28	46	61	67	69	68	68	68	70	64	69
	Sand	30	28	28	17	44	36	39	29	23	17	17	15	15	13	13	12	18
	Grass	6	7	10	13	20	27	24	22	13	10	4	4	5	6	8	7	6
	Tree	2	2	1	3	5	7	9	3	3	5	10	13	13	13	9	17	8
1951	Water	67	76	77	73	56	48	52	60	65	68	73	72	67	67	67	60	69
	Sand	29	21	21	19	35	38	29	24	24	24	17	18	21	26	30	21	24
	Grass	4	2	1	8	10	14	19	16	11	7	7	4	5	4	3	10	3
	Tree	0	0	0	0	0	0	1	0	0	1	2	6	6	4	0	9	4
1938	Water	63	75	78	84	66	54	53	56	65	72	73	73	67	67	67	59	71
	Sand	33	25	22	16	33	43	36	32	23	20	21	22	21	22	25	26	24
	Grass	4	0	0	1	1	3	11	11	11	7	6	4	3	4	7	6	2
	Tree	0	0	0	0	0	0	1	0	0	0	0	0	9	7	1	10	3

Table S2. Land cover area percentages in each year for areas No 18–36 [%].

year	class	Area No																		
		18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
2017	Water	66	65	70	61	47	28	67	69	71	71	68	68	68	67	67	65	64	64	60
	Sand	14	13	13	15	22	28	12	13	9	9	11	10	9	11	11	13	13	10	15
	Grass	7	6	1	2	3	7	2	4	1	1	0	1	1	0	0	1	1	1	1
	Tree	12	16	16	21	28	38	19	14	19	19	21	21	21	22	22	21	22	24	24
1996	Water	64	62	66	59	52	36	64	67	66	67	63	61	66	62	63	61	65	61	62
	Sand	18	20	18	21	19	33	18	18	14	12	15	16	12	16	15	16	14	14	13
	Grass	7	7	2	5	8	8	5	2	5	3	3	3	1	1	1	2	2	1	2
	Tree	10	11	13	14	21	23	13	14	16	18	20	20	21	20	21	20	19	24	23
1973	Water	69	64	65	65	53	46	63	65	65	68	64	60	63	67	63	63	67	62	60
	Sand	21	14	17	17	19	23	16	20	15	8	12	13	12	9	14	14	12	10	14
	Grass	9	22	13	5	20	24	13	7	3	2	6	2	1	1	2	4	5	1	2
	Tree	1	0	5	14	8	7	8	8	16	22	19	25	23	22	22	19	16	27	24
1951	Water	67	59	56	54	44	44	65	62	63	61	62	59	69	66	66	62	63	58	61
	Sand	29	35	35	29	45	40	21	27	17	18	15	20	11	14	16	20	18	17	16
	Grass	3	6	6	4	4	16	8	5	3	0	2	2	1	1	2	5	13	6	12
	Tree	0	0	4	14	6	1	5	6	17	21	21	19	19	19	16	14	6	19	11
1938	Water	70	62	56	50	48	52	63	67	64	61	61	60	67	67	69	62	67	60	64
	Sand	18	25	33	27	22	29	28	25	15	11	15	20	14	12	12	23	24	18	15
	Grass	12	13	9	21	29	18	5	7	7	7	3	3	2	5	9	6	6	1	6
	Tree	0	0	2	2	0	0	4	2	14	21	21	17	17	15	9	9	4	21	14

Table S3. Land cover area percentages in each year for areas No 37–51 [%].

year	class	Area No														
		37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
2017	Water	62	69	70	70	65	67	72	66	65	75	62	65	57	58	51
	Sand	13	15	12	13	15	11	12	13	15	13	15	14	19	20	17
	Grass	0	2	3	1	2	2	4	2	2	3	8	2	10	7	3
	Tree	25	14	15	17	18	20	12	19	17	8	14	18	14	16	28
1996	Water	64	70	64	66	62	61	64	60	64	69	61	60	60	61	56
	Sand	14	14	17	17	17	16	19	22	18	17	8	20	27	18	13
	Grass	2	1	3	2	3	2	6	4	9	8	24	8	8	12	16
	Tree	20	14	15	16	19	21	11	13	9	6	8	12	5	9	15
1973	Water	66	67	65	64	62	59	65	64	69	69	61	64	60	61	56
	Sand	9	16	22	21	18	19	28	26	20	27	22	19	27	18	13
	Grass	2	9	2	6	9	9	4	4	9	4	15	11	8	12	16
	Tree	23	7	11	8	11	13	3	6	2	0	3	6	5	9	15
1951	Water	58	58	57	56	55	52	59	59	61	63	60	57	66	63	59
	Sand	16	31	29	30	31	31	31	33	36	35	35	42	19	22	20
	Grass	20	7	5	3	4	2	6	1	2	2	5	1	13	12	10
	Tree	6	5	9	10	10	15	4	7	1	0	0	0	2	3	11
1938	Water	66	52	58	59	62	54	58	54	62	62	46	52	63	60	50
	Sand	12	30	22	21	16	28	17	32	34	36	51	45	35	35	28
	Grass	15	11	10	13	15	2	17	4	3	1	3	3	2	4	6
	Tree	7	7	10	6	7	16	7	10	2	1	0	0	0	1	16