

Table S1. Statistics for the Areas of interest for SSR calculated for the historic dataset

CODE	MIN	MAX	RANGE	MEAN	STD
GR1150012	2.06	18.38	16.32	7.95	5.24
GR2130011	1.27	10.81	9.54	5.53	2.96
GR4210005	10.61	17.89	7.28	15.36	1.95
GR1250001	1.07	16.22	15.15	8.27	4.60
GR3000001	11.98	20.85	8.88	16.30	2.44
GR1270014	1.72	14.88	13.16	8.46	3.60
GR4110011	14.49	20.60	6.11	17.75	1.86
GR2550009	4.93	20.75	15.82	13.19	4.45
GR4210029	7.02	18.57	11.55	15.02	3.77
GR3000013	8.29	14.63	6.34	11.76	1.99
GR4340014	5.50	17.17	11.67	10.57	3.65
GR2220006	4.08	6.87	2.79	5.24	0.75
GR2410002	6.26	18.65	12.39	12.65	2.83
GR1270003	1.01	10.10	9.09	5.28	2.96
GR1430001	2.37	14.02	11.65	8.87	3.16
GR2330004	10.32	15.27	4.96	13.39	1.88
GR2550006	4.93	20.75	15.82	13.14	4.44
GR3000005	7.84	21.28	13.45	18.78	2.72
GR3000006	6.69	23.09	16.39	17.60	2.99

Table S2. Statistics for the Areas of interest for SSR calculated for the scenario RCP 4.5 for the period 2036–2045.

CODE	MIN	MAX	RANGE	MEAN	STD
GR1150012	1.88	18.69	16.81	8.13	5.55
GR2130011	1.80	12.28	10.48	6.67	3.40
GR4210005	10.06	17.67	7.61	14.60	2.13
GR1250001	0.96	16.41	15.45	8.49	4.82
GR3000001	13.25	22.31	9.06	17.80	2.46
GR1270014	1.45	15.47	14.02	8.74	3.89
GR4110011	16.93	22.89	5.96	19.89	1.80
GR2550009	6.46	22.97	16.51	15.05	4.60
GR4210029	6.75	18.31	11.56	14.65	3.79
GR3000013	8.89	16.19	7.30	12.85	2.31
GR4340014	5.85	17.90	12.05	11.06	3.78
GR2220006	4.11	7.91	3.80	6.13	1.02
GR2410002	7.35	21.10	13.75	14.15	3.05
GR1270003	0.83	10.35	9.52	5.44	3.16
GR1430001	2.33	14.35	12.02	9.32	3.31
GR2330004	12.28	16.94	4.66	14.91	1.68
GR2550006	6.46	22.97	16.51	14.99	4.58
GR3000005	8.01	22.96	14.95	20.33	3.00
GR3000006	6.78	24.98	18.20	19.34	3.24

Table S3. Statistics for the Areas of interest for SSR calculated for the scenario RCP 8.5 for the period 2036–2045.

CODE	MIN	MAX	RANGE	MEAN	STD
GR1150012	2.16	19.31	17.14	8.32	5.61
GR2130011	1.60	11.57	9.97	6.28	3.09
GR4210005	11.01	18.54	7.53	15.87	2.00
GR1250001	0.87	17.30	16.42	9.06	5.08
GR3000001	13.15	21.97	8.82	17.61	2.36
GR1270014	1.66	15.93	14.27	9.06	3.96
GR4110011	15.47	21.25	5.77	18.47	1.79
GR2550009	5.66	21.38	15.72	14.21	4.38

GR4210029	7.23	19.66	12.43	15.73	3.99
GR3000013	7.95	14.60	6.65	11.51	2.06
GR4340014	6.12	16.87	10.75	10.87	3.29
GR2220006	3.67	6.82	3.15	5.28	0.82
GR2410002	6.91	20.55	13.64	13.89	3.08
GR1270003	1.09	10.80	9.71	5.69	3.21
GR1430001	2.46	14.96	12.50	9.66	3.38
GR2330004	11.61	16.40	4.78	14.33	1.75
GR2550006	5.66	21.38	15.72	14.18	4.40
GR3000005	7.81	22.14	14.33	19.53	2.89
GR3000006	6.73	24.16	17.43	18.80	3.04

Table S4. Statistics for the AoI for mean ISI cell values calculated for the historic dataset.

CODE	MIN	MAX	RANGE	MEAN	STD
GR1150012	2.84	10.93	8.09	5.96	2.61
GR2130011	2.56	7.40	4.84	4.95	1.50
GR4210005	7.79	10.65	2.87	9.72	0.78
GR1250001	2.18	9.75	7.57	6.08	2.29
GR3000001	9.16	12.22	3.06	10.58	0.83
GR1270014	2.44	9.20	6.76	6.07	1.87
GR4110011	9.97	12.11	2.13	10.89	0.65
GR2550009	5.22	12.23	7.01	8.80	1.92
GR4210029	5.39	11.11	5.72	9.40	1.84
GR3000013	7.00	9.70	2.70	8.48	0.86
GR4340014	5.46	10.50	5.04	7.65	1.54
GR2220006	4.00	5.49	1.49	4.74	0.33
GR2410002	6.32	11.43	5.11	8.82	1.15
GR1270003	1.94	6.79	4.85	4.36	1.61
GR1430001	2.85	8.81	5.96	6.40	1.56
GR2330004	7.59	9.53	1.94	8.85	0.73
GR2550006	5.22	12.23	7.01	8.81	1.90
GR3000005	6.15	12.79	6.64	11.47	1.34
GR3000006	5.47	13.42	7.94	10.85	1.52

Table S5. Statistics for the AoI for mean ISI cell values calculated for the scenario RCP 4.5 for the period 2036–2045.

CODE	MIN	MAX	RANGE	MEAN	STD
GR1150012	2.66	11.09	8.43	5.97	2.79
GR2130011	2.90	7.92	5.02	5.41	1.65
GR4210005	7.49	10.49	3.00	9.45	0.85
GR1250001	2.17	9.81	7.64	6.18	2.38
GR3000001	9.66	12.81	3.15	11.14	0.85
GR1270014	2.28	9.47	7.19	6.16	2.01
GR4110011	11.08	13.28	2.20	11.88	0.64
GR2550009	5.76	13.15	7.39	9.55	2.02
GR4210029	5.22	11.00	5.77	9.25	1.85
GR3000013	6.82	10.14	3.32	8.70	1.08
GR4340014	5.43	10.68	5.24	7.75	1.62
GR2220006	3.86	5.82	1.95	5.07	0.48
GR2410002	6.92	12.36	5.44	9.43	1.21
GR1270003	1.82	6.88	5.06	4.36	1.70
GR1430001	2.72	8.88	6.16	6.51	1.61
GR2330004	8.36	10.26	1.91	9.53	0.69
GR2550006	5.76	13.15	7.39	9.55	1.99
GR3000005	6.03	13.57	7.55	12.08	1.48
GR3000006	5.34	14.18	8.85	11.53	1.65

Table S6. Statistics for the AoI for mean ISI cell values calculated for the scenario RCP 8.5 for the period 2036–2045.

CODE	MIN	MAX	RANGE	MEAN	STD
GR1150012	2.88	11.45	8.57	6.18	2.81
GR2130011	2.85	7.74	4.89	5.30	1.54
GR4210005	8.02	10.96	2.94	9.99	0.83
GR1250001	2.14	10.27	8.13	6.46	2.52
GR3000001	9.62	12.68	3.06	11.05	0.82
GR1270014	2.39	9.75	7.36	6.36	2.05
GR4110011	10.44	12.53	2.09	11.30	0.65
GR2550009	5.49	12.56	7.07	9.26	1.92
GR4210029	5.52	11.61	6.09	9.75	1.94
GR3000013	6.54	9.50	2.96	8.17	0.96
GR4340014	5.46	10.29	4.83	7.73	1.43
GR2220006	3.74	5.46	1.71	4.73	0.39
GR2410002	6.68	12.10	5.42	9.28	1.24
GR1270003	2.00	7.13	5.14	4.56	1.73
GR1430001	2.83	9.21	6.38	6.69	1.64
GR2330004	8.01	9.98	1.98	9.27	0.72
GR2550006	5.49	12.56	7.07	9.27	1.91
GR3000005	6.00	13.22	7.22	11.74	1.43
GR3000006	5.39	13.87	8.48	11.31	1.56



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