United Nations Convention to Combat Desertification
Performance review and assessment of implementation system
Seventh reporting process

Report from Finland

11 February 2023

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SO1-1 Trends in land cover

Land area

SO1-1.T1: National estimates of the total land area, the area covered by water bodies and total country area

Year	Total land area (km²)	Water bodies (km²)	Total country area (km²)	Comments
2000	303 906	34 529	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2001	303 903	34 532	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2002	303 900	34 535	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2003	303 897	34 538	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2004	303 895	34 540	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2005	303 893	34 542	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2006	303 893	34 542	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2007	303 893	34 542	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2008	303 890	34 545	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2009	303 887	34 547	338 434	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2010	303 885	34 550	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2011	303 882	34 553	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2012	303 878	34 557	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2013	303 877	34 558	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2014	303 876	34 559	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2015	303 876	34 559	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2016	303 876	34 559	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2017	303 876	34 559	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.

Year	Total land area (km²)	Water bodies (km²)	Total country area (km²)	Comments
2018	303 876	34 559	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2019	303 876	34 559	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.
2020	303 875	34 560	338 435	Source: Statistics Finland 2022. Greenhouse Gas Emissions in Finland 1990-2020. / UNFCCC 2022. National Inventory Submissions 2022.

Land cover legend and transition matrix

SO1-1.T2: Key Degradation Processes

Degradation Process	Starting Land Cover	Ending Land Cover
Urban Expansion	Tree-covered areas	Artificial surfaces
Other Peat extraction	Other Any	Other Wetlands (peat extraction areas)
Deforestation	Tree-covered areas	Croplands

Are the seven UNCCD land cover classes sufficient to monitor the key degradation processes in your country?

- ○ Yes
- ◉ No

SO1-1.T3: Land Cover Legend

Country legend class	Country legend class code	UNCCD legend class
Tree-covered areas	1	Tree-covered areas
Grasslands	2	Grasslands
Croplands	3	Croplands
Wetlands (other)	4	Wetlands
Wetlands (peat extraction areas)	4 .1	Wetlands
Artificial surfaces	5	Artificial surfaces
Other lands	6	Other Lands
Water bodies	7	Water bodies

SO1-1.T4: Country Land Cover Legend Transition Matrix

Original/ Final	Tree-covered areas	Grasslands	Croplands	Wetlands (other)	Wetlands (peat extraction areas)	Artificial surfaces	Other lands	Water bodies
Tree-covered areas	0	-	-	0	-	-		
Grasslands	+	0	-	+	-	-		
Croplands	+	+	0	+	-	-		
Wetlands (other)	-	-	-	0	-	-		
Wetlands (peat extraction areas)	+	+	+	+	-	-		
Artificial surfaces	+	+	+	+		0	0	
Other lands	+					-	0	

Original/ Final	Tree-covered areas	Grasslands	Croplands	Wetlands (other)	Wetlands (peat extraction areas)	Artificial surfaces	Other lands	Water bodies
Water bodies								0

Degradation	Improvement	Stable
-	+	0

Land cover

SO1-1.T5: National estimates of land cover (km²) for the baseline and reporting period

	Tree-covered areas	Grasslands	Croplands	Wetlands (other)	Wetlands (peat extraction areas)	Artificial surfaces	Other lands	Water bodies	No data (km²)
2000	221 060	2 344	24 408	28 975	963	13 028	13 128	34 529	
2001	220 933	2 335	24 437	28 952	976	13 143	13 127	34 532	
2002	220 789	2 326	24 494	28 932	977	13 254	13 127	34 534	
2003	220 621	2 329	24 561	28 914	975	13 371	13 127	34 538	
2004	220 441	2 336	24 613	28 897	975	13 506	13 127	34 540	
2005	220 257	2 347	24 655	28 878	987	13 643	13 127	34 542	
2006	220 084	2 359	24 687	28 863	997	13 777	13 126	34 542	
2007	219 914	2 370	24 694	28 853	1 019	13 918	13 215	34 542	
2008	219 755	2 375	24 699	28 838	1 042	14 058	13 122	34 545	
2009	219 589	2 379	24 719	28 826	1 068	14 187	13 119	34 547	
2010	219 429	2 378	24 745	28 813	1 085	14 319	13 116	34 550	
2011	219 278	2 380	24 777	28 789	1 100	14 444	13 113	34 553	
2012	219 149	2 381	24 816	28 757	1 109	14 556	13 110	34 557	
2013	2 109 034	2 378	24 850	28 733	1 117	14 657	13 109	34 558	
2014	218 934	2 376	24 877	28 708	1 120	14 752	13 108	34 560	
2015	218 847	2 382	24 901	28 691	1 119	14 831	13 107	34 559	
2016	218 764	2 389	24 923	28 679	1 119	14 896	13 105	34 559	
2017	218 688	2 398	24 944	28 675	1 118	14 948	13 105	34 559	
2018	218 617	2 410	24 965	28 673	1 117	14 991	13 104	34 558	
2019	218 550	2 422	24 990	28 668	1 114	15 028	13 104	34 558	
2020									

Land cover change

SO1-1.T6: National estimates of land cover change (km²) for the baseline period

	Tree-covered areas	Grasslands	Croplands	Wetlands (other)	Wetlands (peat extraction areas)	Artificial surfaces	Other lands	Water bodies	Total (km²)
Tree-covered areas	217 982	125	933	86	244	1 773	0	6	221 149
Total	218 846	2 381	24 900	28 690	1 119	14 831	13 107	34 559	

	Tree-covered areas	Grasslands	Croplands	Wetlands (other)	Wetlands (peat extraction areas)	Artificial surfaces	Other lands	Water bodies	Total (km²)
Grasslands	340	1 828	73	3	10	94	0	4	2 352
Croplands	152	379	23 704	0	8	155	0	0	24 398
Wetlands (other)	173	11	35	28 575	147	40	0	18	28 999
Wetlands (peat extraction areas)	38	31	150	11	710	4	0	9	953
Artificial surfaces	155	7	5	7	0	12 741	8	3	12 926
Other lands	6	0	0	0	0	24	13 099	0	13 129
Water bodies	0	0	0	8	0	0	0	34 519	34 527
Total	218 846	2 381	24 900	28 690	1 119	14 831	13 107	34 559	

SO1-1.T7: National estimates of land cover change (km²) for the reporting period

	Tree-covered areas	Grasslands	Croplands	Wetlands (other)	Wetlands (peat extraction areas)	Artificial surfaces	Other lands	Water bodies	Total land area (km²)
Tree-covered areas	218 410	22	149	30	24	213	0	0	218 848
Grasslands	48	2 311	15	1	0	7	0	0	2 382
Croplands	2	83	24 793	0	1	21	0	0	24 900
Wetlands (other)	27	0	8	28 631	13	7	0	4	28 690
Wetlands (peat extraction areas)	30	4	7	0	1 076	0	0	2	1 119
Artificial surfaces	33	1	15	0	0	14 775	3	3	14 830
Other lands	0	0	0	0	0	5	13 101	0	13 106
Water bodies	0	0	3	6	0	0	0	34 549	34 558
Total	218 550	2 421	24 990	28 668	1 114	15 028	13 104	34 558	

Land cover degradation

SO1-1.T8: National estimates of land cover degradation (km²) in the baseline period

	Area (km²)	Percent of total land area (%)
Land area with degraded land cover	4 559	1 .3
Land area with non-degraded land cover	333 876	98 .7
Land area with no land cover data	0	0 .0

SO1-1.T9: National estimates of land cover degradation (km²) in the reporting period

	Area (km²)	Percent of total land area (%)
Land area with improved land cover	225	0 .1

	Area (km²)	Percent of total land area (%)
Land area with stable land cover	336 622	99 .5
Land area with degraded land cover	1 588	0 .5
Land area with no land cover data	0	0 .0

General comments

In order to describe trends in land cover in the Finnish context the category of wetlands needs to be distinguish between wetlands in peat extraction areas and other wetlands. The situation cannot be described consistently without adding the category of wetlands peat extraction areas. 23/1/2023. In the land category matrix, potential change from other land to tree covered has been added. It can be seen as improvement.

SO1-2 Trends in land productivity or functioning of the land

Land productivity dynamics

SO1-2.T1: National estimates of land productivity dynamics (in km²) within each land cover class for the baseline period

Land cover class	Net land productivity dynamics (km²) for the baseline period					
	Declining (km²)	Moderate Decline (km²)	Stressed (km²)	Stable (km²)	Increasing (km²)	No Data (km²)
Tree-covered areas	3 209	10 009	42 859	60 223	118 310	13
Grasslands	119	26	2 427	3 639	548	1
Croplands	58	875	830	1 776	22 681	0
Wetlands	466	368	6 576	10 530	5 062	1
Artificial surfaces	40	46	70	93	300	0
Other Lands	3	2	75	31	50	2
Water bodies	336	1 099	7 196	9 672	13 943	331

SO1-2.T2: National estimates of land productivity dynamics (in km²) within each land cover class for the reporting period.

Land cover class	Net land productivity dynamics (km²) for the reporting period					
	Declining (km²)	Moderate Decline (km²)	Stressed (km²)	Stable (km²)	Increasing (km²)	No Data (km²)
Tree-covered areas	3 716	5 983	75 739	88 447	58 974	14
Grasslands	418	14	1 851	3 810	242	1
Croplands	54	943	6 001	9 083	11 338	3
Wetlands	1 118	470	11 577	7 646	1 675	1
Artificial surfaces	11	16	204	136	184	0
Other Lands	15	2	68	52	36	2
Water bodies	842	1 364	12 048	10 059	8 017	332

SO1-2.T3: National estimates of land productivity dynamics for areas where a land conversion to a new land cover class has taken place (in km²) for the baseline period.

Land Conversion		Net land productivity dynamics (km²) for the baseline period					
From	To	Net area change (km²)	Declining (km²)	Moderate Decline (km²)	Stressed (km²)	Stable (km²)	Increasing (km²)
Wetlands	Tree-covered areas	5 762	154	46	1 560	3 273	729
Tree-covered areas	Croplands	2 519	5	102	156	320	1 935
Grasslands	Tree-covered areas	1 012	15	1	246	713	36
Tree-covered areas	Wetlands	920	23	59	279	213	345

SO1-2.T4: National estimates of land productivity dynamics for areas where a land conversion to a new land cover class has taken place (in km²) for the reporting period.

Land Conversion		Net land productivity dynamics (km²) for the reporting period					
From	To	Net area change (km²)	Declining (km²)	Moderate Decline (km²)	Stressed (km²)	Stable (km²)	Increasing (km²)
Tree-covered areas	Croplands	3 807	17	161	910	1 248	1 470
Wetlands	Tree-covered areas	3 305	119	19	1 784	1 275	108
Tree-covered areas	Wetlands	3 001	99	93	1 566	837	407
Tree-covered areas	Grasslands	951	39	16	648	176	73

Land Productivity degradation

SO1-2.T5: National estimates of land productivity degradation in the baseline period

	Area (km²)	Percent of total land area (%)
Land area with degraded land productivity	15 698	5 .2
Land area with non-degraded land productivity	286 917	94 .4
Land area with no land productivity data	18	0 .0

SO1-2.T6: National estimates of land productivity degradation in the reporting period

	Area (km²)	Percent of total land area (%)
Land area with improved land productivity	74 747	24 .6
Land area with stable land productivity	214 279	70 .5
Land area with degraded land productivity	13 372	4 .4
Land area with no land productivity data	22	0 .0

General comments

The pre-filled estimates, assumingly based on MODIS based products, do not reflect observations in e.g. National Forest Inventory of Finland that shows stable situation in land productivity in forests. The used method does not seem to work in boreal forests that are managed with intermediate and final fellings that both cause relatively strong changes in the spectral values of individual land units as compared to the slower change caused by annual increment. The prefilled indicator value suggests degraded land productivity to amount as high as 4.4%. This clearly demonstrates that the method is not adequate . While possibly so far among the best available for a global overview, attempting to interprete the results at the level of an individual country risks goving misleading results.

SO1-3 Trends in carbon stocks above and below ground

Soil organic carbon stocks

SO1-3.T1: National estimates of the soil organic carbon stock in topsoil (0-30 cm) within each land cover class (in tonnes per hectare).

Year	Soil organic carbon stock in topsoil (t/ha)						
	Tree-covered areas	Grasslands	Croplands	Wetlands	Artificial surfaces	Other Lands	Water bodies
2000	177	160	164	169	167	203	25
2001	177	162	164	176	167	202	25
2002	177	163	162	179	167	200	25
2003	177	163	161	181	166	195	25
2004	176	173	158	188	166	194	25
2005	176	173	157	189	166	189	25
2006	176	173	157	190	166	182	25
2007	175	173	156	194	166	173	25
2008	175	174	156	197	166	168	25
2009	175	175	155	200	166	162	25
2010	175	174	154	200	166	157	25
2011	175	174	152	200	166	152	25
2012	175	173	152	200	166	149	25
2013	175	174	152	200	166	149	25
2014	175	178	151	203	166	142	25
2015	172	183	164	215	180	206	25
2016	172	190	161	218	178	202	25
2017	172	192	160	218	172	199	25
2018	174	186	154	210	169	143	25
2019	175	177	151	202	164	125	25
2020							

If you opted not to use default Tier 1 data, what did you use to calculate the estimates above?

- (●) Modified Tier 1 methods and data
- ( ) Tier 2 (additional use of country-specific data)
- ( ) Tier 3 (more complex methods involving ground measurements and modelling)

SO1-3.T2: National estimates of the change in soil organic carbon stock in soil due to land conversion to a new land cover class in the baseline period

Land Conversion		Soil organic carbon (SOC) stock change in the baseline period					
From	To	Net area change (km²)	Initial SOC stock (t/ha)	Final SOC stock (t/ha)	Initial SOC stock total (t)	Final SOC stock total (t)	SOC stock change (t)
Wetlands	Tree-covered areas	211	172 .7	172 .7	3 643 329	3 643 329	0

Land Conversion		Soil organic carbon (SOC) stock change in the baseline period					
From	To	Net area change (km²)	Initial SOC stock (t/ha)	Final SOC stock (t/ha)	Initial SOC stock total (t)	Final SOC stock total (t)	SOC stock change (t)
Tree-covered areas	Grasslands	125	162 .0	162 .0	2 024 686	2 024 686	0
Tree-covered areas	Wetlands	330	208 .3	208 .3	6 873 275	6 873 275	0
Tree-covered areas	Croplands	933	154 .4	139 .6	14 410 152	13 028 868	-1 381 284

SO1-3.T3: National estimates of the change in soil organic carbon stock in soil due to land conversion to a new land cover class in the reporting period

Land Conversion		Soil organic carbon (SOC) stock change in the reporting period					
From	To	Net area change (km²)	Initial SOC stock (t/ha)	Final SOC stock (t/ha)	Initial SOC stock total (t)	Final SOC stock total (t)	SOC stock change (t)
Tree-covered areas	Wetlands	54	182 .9	182 .9	987 530	987 530	0
Tree-covered areas	Grasslands	22	165 .1	165 .1	363 317	363 317	0
Wetlands	Tree-covered areas	57	203 .6	203 .6	1 160 660	1 160 660	0
Tree-covered areas	Croplands	149	165 .3	161 .1	2 462 306	2 399 857	-62 449

Soil organic carbon stock degradation

SO1-3.T4: National estimates of soil organic carbon stock degradation in the baseline period

	Area (km²)	Percent of total land area (%)
Land area with degraded soil organic carbon (SOC)	933	0 .3
Land area with non-degraded SOC	300 291	98 .8
Land area with no SOC data	1 409	0 .5

SO1-3.T5: National estimates of SOC stock degradation in the reporting period

	Area (km²)	Percent of total land area (%)
Land area with improved SOC	2	0 .0
Land area with stable SOC	301 474	99 .2
Land area with degraded SOC	149	0 .0
Land area with no SOC data	966	0 .3

General comments

From the point of view of GHG release, it is important to monitor carbon. Finland is gathering information nationally for reporting under UNFCCC. Consistency of terms (e.g.wetlands) and indicators, to the degree possible, between UNFCCC and UNCCD would facilitate reporting. In Finland, some carbon is lost from the soil to the atmosphere, but because of the hydro-climatic setting and the relatively recently formed soils, the loss is negligible from a soil productivity point of view while relevant for climate change. Forest soil is a sink of carbon and NOT a source of emissions. Default Tier 1 data were used but it was impossible to remove selected "Modified Tier 1 methods and data" anymore. Default categories were used in table SO1-3.T2 and SO1-3.T3 although they are slightly inconsistent with the tables SO1-1.T6 and SO1-1.T7, because national data is not available for table SO1-3.T1. 23/1/2023. Table T3 has been updated. Table T4. and T5 values have been updated.

SO1-4 Proportion of degraded land over the total land area

Proportion of degraded land over the total land area (Sustainable Development Goal Indicator 15.3.1)

SO1-4.T1: National estimates of the total area of degraded land (in km²), and the proportion of degraded land relative to the total land area

	Total area of degraded land (km²)	Proportion of degraded land over the total land area (%)
Baseline Period	2 892	1 .0
Reporting Period	1 327	0 .4
Change in degraded extent	-1565	

Method

Did you use the SO1-1, SO1-2 and SO1-3 indicators (i.e. land cover, land productivity dynamics and soil organic carbon stock) to compute the proportion of degraded land?

Which indicators did you use?

☐ Land Cover
☒ Land Productivity Dynamics
☐ SOC Stock

Did you apply the one-out, all-out principle to compute the proportion of degraded land?

○ Yes
○ No

Level of Confidence

Indicate your country's level of confidence in the assessment of the proportion of degraded land:

○ High (based on comprehensive evidence)
◉ Medium (based on partial evidence)
○ Low (based on limited evidence)

Describe why the assessment has been given the level of confidence selected above:

In fact the level of confidence is between medium and high: The assessment is based on the national land cover data presented in section SO1-1. The above assessment is in line with the definition of degraded land appropriate for Finland's conditions, i.e. that only land cover changes that imply a complete loss of productivity count. Accordingly, change of tree-covered land, grass land, cropland and wetlands to artificial surfaces was summed up.

False positives/ False negatives

SO1-4.T3: Justify why any area identified as degraded or non-degraded in the SO1-1, SO1-2 or SO1-3 indicator data should or should not be included in the overall Sustainable Development Goal indicator 15.3.1 calculation.

Location Name	Type	Recode Options	Area (km²)	Process driving false +/- outcome	Basis for Judgement	Edit Polygon

Perform qualitative assessments of areas identified as degraded or improved

SO1-4.T4: Degradation hotspots

Hotspots	Location	Area (km²)	Assessment Process	Direct drivers of land degradation hotspots	Action(s) taken to redress degradation in terms of Land Degradation Neutrality response hierarchy	Remediating action(s) (both forward-looking and current)	Edit Polygon

Hotspots	Location	Area (km²)	Assessment Process	Direct drivers of land degradation hotspots	Action(s) taken to redress degradation in terms of Land Degradation Neutrality response hierarchy	Remediating action(s) (both forward-looking and current)	Edit Polygon
Contaminated sites (restrictions regarding land use apply)	Mainly in southern Finland and along coastal areas, in other words, in areas with an abundance of industrial and business operations and with the highest density of population		Site-based data	1. Infrastructure, industry and urbanization 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	☐ Avoid ☐ Reduce ☐ Reverse	• Other/general /unspecified ◦ Other/general /unspecified • Restore/improve multiple functions	
Total no. of hotspots	1						
Total hotspot area	0						

What is/are the indirect driver(s) of land degradation at the national level?

1. Economic
2.
3.
4.
5.

SO1-4.T5: Improvement brightspots

Brightspots	Location	Area (km²)	Assessment Process	What action(s) led to the brightspot in terms of the Land Degradation Neutrality hierarchy?	Implementing action(s) (both forward-looking and current)	Edit Polygon
Restoration of wetlands and forests	In southern Finland	319 .23	Site-based data	☒ Avoid ☒ Reduce ☐ Reverse	• Restore/improve wetlands ◦ Restore/preserve wetlands and reduce degradation of wetlands • Increase protected areas ◦ Increase protected area extent • Restore/improve protected areas ◦ Improve management of protected areas	
Total no. of brightpots	1					
Total brightspot area	319 .23					

What are the enabling and instrumental responses at the national level driving the occurrence of brightspots?

1. Economic and financial instruments
2.
3.

4.
5.
6.
7.
8.
9.
10.

General comments

Regarding contaminated areas: The identification is based on the mapping of areas which have previously had or currently have operations that may cause harmful substances to enter the soil. So they are e.g. fuel distribution, landfills, the servicing and repair of motor vehicles, industrial, storage and mining areas, shooting ranges, dry-cleaners and wood impregnation plants. The total number of identified contaminated areas was 25349 in 2019, which fall into the following categories: Potentially contaminated sites 17681 contaminated sites 2246, remediated or no need for remediation 7422 (Source: Finnish environmental administration's MATTI soil condition database for management of site-specific data related to soil contamination). Each year 250–300 contaminated areas are remediated. Land redevelopment and construction works and closedown of operations are the main reasons for remediation. The METSO Programme 2008–2025 aims to halt the ongoing decline in the biodiversity of forest habitats and species, and to establish at least stable or preferably favourable trends in Southern Finland’s forest ecosystems. The Programme is a collaborative effort between the Ministry of the Environment, the Ministry of Agriculture and Forestry and different stakeholders. The METSO Programme has been designed to enhance biodiversity by supplementing and improving Finland's network of protected areas and by maintaining and developing nature management practices for commercially managed forests. Conservation schemes will largely be based on voluntary participation of landowners willing to safeguard biodiversity in their own forests. The Programme also promotes the establishment of conservation networks between private forest owners and organisations. Restoration activities are also being carried out on existing protected areas on State owned land. The value of METSO sites and the funding spent on the implementation of the METSO Programme at the Finnish Forest Centre in 2016-2019 amounted to 107,2 million euros for the area listed in the table 5.

SO1 Voluntary Targets

SO1-VT.T1: Voluntary Land Degradation Neutrality targets and other targets relevant to strategic objective 1

Target	Year	Location(s)	Total Target Area (km²)	Overarching type of Land Degradation Neutrality (LDN) intervention	Targeted action(s)	Status of target achievement	Is this an LDN target? If so, under which process was it defined/adopted?	Which other important goals are also being addressed by this target?	Edit Polygon
Total			Sum of all targeted areas 0						

SO1.IA.T1: Areas of implemented action related to the targets (projects and initiatives on the ground).

Relevant Target	Implemented Action	Location (placename)	Action start date	Extent of action	Total Area Implemented So Far (km²)	Edit Polygon
					Sum of all areas relevant to actions under the same target	

General comments

SO2-1 Trends in population living below the relative poverty line and/or income inequality in affected areas

Relevant metric

Choose the metric that is relevant to your country:

- ○ Proportion of population below the international poverty line
- ○ Income inequality (Gini Index)

Qualitative assessment

SO2-1.T3: Interpretation of the indicator

Indicator metric	Change in the indicator	Comments

General comments

SO2-2 Trends in access to safe drinking water in affected areas

Proportion of population using safely managed drinking water services

SO2-2.T1: National estimates of the proportion of population using safely managed drinking water services

Year	Urban (%)	Rural (%)	Total (%)
2000			93
2001			94
2002			94
2003			95
2004			95
2005			96
2006			96
2007			97
2008			97
2009			97
2010			98
2011			98
2012			99
2013			99
2014			100
2015			100
2016			100
2017			100
2018			100
2019			100
2020			100

Qualitative assessment

SO2-2.T2: Interpretation of the indicator

Change in the indicator	Comments

General comments

SO2-3 Trends in the proportion of population exposed to land degradation disaggregated by sex

Proportion of the population exposed to land degradation disaggregated by sex

SO2-3.T1: National estimates of the proportion of population exposed to land degradation disaggregated by sex.

Time period	Population exposed (count)	Percentage of total population exposed (%)	Female population exposed (count)	Percentage of total female population exposed (%)	Male population exposed (count)	Percentage of total male population exposed (%)
Baseline period		0 .0		0 .0		0 .0
Reporting period		0 .0		0 .0		0 .0

Qualitative assessment

SO2-3.T2: Interpretation of the indicator

Change in the indicator	Comments

General comments

SO-2: To improve the living conditions of affected populations.

SO2 Voluntary Targets

SO2-VT.T1

Target	Year	Level of application	Status of target achievement	Comments

General comments

SO3-1 Trends in the proportion of land under drought over the total land area

Drought hazard indicator

SO3-1.T1: National estimates of the land area in each drought intensity class as defined by the Standardized Precipitation Index (SPI) or other nationally relevant drought indices

	Drought intensity classes				
	Mild drought (km²)	Moderate drought (km²)	Severe drought (km²)	Extreme drought (km²)	Non-drought (km²)
2000	22 168	881	260	0	312 272
2001	130 979	29 149	14 175	0	161 279
2002	123 050	107 770	63 513	25 393	15 856
2003	154 672	59 249	29 377	5 123	87 160
2004	44 862	720	24	0	289 976
2005	89 069	9 060	699	0	236 753
2006	170 407	89 916	35 322	5 860	34 076
2007	28 576	0	0	0	307 005
2008	17 103	1 434	0	0	317 045
2009	103 322	83 100	79 488	64 544	5 127
2010	199 091	60 368	17 980	2 796	55 346
2011	42 993	9	0	0	292 579
2012	16 425	0	0	0	319 157
2013	97 167	59 470	17 985	11 303	149 656
2014	185 335	51 808	19 970	3 199	75 269
2015	67 959	2 630	0	0	264 992
2016	79 676	18 382	4 207	7 577	225 740
2017	120 253	6 763	0	0	208 566
2018	53 151	41 203	59 325	170 165	11 738
2019	183 834	32 536	4 157	0	115 055
2020					
2021					

SO3-1.T2: Summary table for land area under drought without class break down

	Total area under drought (km²)	Proportion of land under drought (%)
2000		0 .0
2001		0 .0
2002		0 .0
2003		0 .0
2004		0 .0
2005		0 .0
2006		0 .0

	Total area under drought (km²)	Proportion of land under drought (%)
2007		0 .0
2008		0 .0
2009		0 .0
2010		0 .0
2011		0 .0
2012		0 .0
2013		0 .0
2014		0 .0
2015		0 .0
2016		0 .0
2017		0 .0
2018		0 .0
2019		0 .0
2020		-
2021		-

Qualitative assessment:

It was not possible to evaluate the quality and representativeness of the prefilled indicator source data (Global Precipitation Climatology Centre (GPCC) Monitoring Product v6) within the given time frame of reporting. E.g. the number of rain gauges and their location may play a role, as areal differences related to any drought event may be significant. The accuracy of the source data (pre-filled) is not clear. It merits consideration what inclusion of mild drought and the resulting high areal extents actually tell. Depending on the hydro-climatic zone, the relevance of a mild drought may differ. The following observations can nevertheless be made about the prefilled data: - It seems that the years with the highest indicator value correspond to years with severe drought conditions observed: 2002-2003, 2006, 2009-2010 and 2018. - The percentages even exceed the land area (>100 %). This may indicate that other figures overestimate the drought affected area. About drought impacts in specific years: - During the drought of 2002–2003 the situation was more severe, and approximately 15% of water supply companies had problems with water availability. In some areas, groundwater tables were up to five meters below the long-term annual average. The situation was especially alarming in North Karelia and in the western parts of Finland, and the estimated direct costs caused by the drought for water supply were approximately 5–10 million euro.(Silander & Järvinen, 2004; Vienonen, 2012) - Regarding the drought in 2018, some descriptive information about the impact can provided. For agriculture alone, the economic losses were estimated to amount to over 400 million euros. According to the information of Natural Resources Institute Finland, harvests were reduced in South-Western Finland in particular (in the Varsinais-Suomi region and its vicinity), but there was large areal variation. The amounts harvested seemed to be influenced, e.g. a good organic soil content which buffered the effect of drought. The harvest of cereals amounted to 2.7 billion kilos, which was the lowest in the 26 preceding years. Also the harvest of the broad bean remained clearly below normal. In South-Western Finland, some water utilities also put voluntary limitations on water use in 2018. - During the dry summer of 2018, in Finland and in other Nordic countries, and the average spot prices of electricity almost doubled compared to the previous years. However, in addition to the drought, also other factors affecting the price, such as the high emissions allowance prices.(Veijalainen et al, 2019).

General comments

Some sources for further information: Silander, J.; Järvinen, E.A. Vuosien 2002–2003 Poikkeuksellisen Kuivuuden Vaikutukset [E ects of Severe Drought of 2002/2003]; Finnish Environment 731; Finnish Environment Institute: Helsinki, Finland, 2004. Veijalainen et al. Severe Drought in Finland: Modeling Effects on Water Resources and Assessing Climate Change Impacts. Sustainability 2019, 11, 2450. Vienonen, S.; Rintala, J.; Orvomaa, M.; Santala, E.; Maunula, M. Ilmastonmuutoksen Vaikutukset ja Sopeutumistarpeet Vesihuollossa [Effects of climate change and adaptation needs in water supply]; Finnish Environment Institute: Helsinki, Finland, 2012. The pre-filled data on T2 seems to point out the severe drought conditions but provides incorrect numbers that account for over 100% of the land area as drought conditions. Thus we have deleted the data. Years with severe drought conditions observed: 2002-2003, 2006, 2009-2010 and 2018.

SO3-2 Trends in the proportion of the population exposed to drought

Drought exposure indicator

Exposure is defined in terms of the number of people who are exposed to drought as calculated from the SO3-1 indicator data.

SO3-2.T1: National estimates of the percentage of the total population within each drought intensity class as well as the total population count and the proportion of the national population exposed to drought regardless of intensity.

	Non-exposed		Mild drought		Moderate drought		Severe drought		Extreme drought		Exposed population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2000	4204000	98.0	85849	2.0	0	0.0	0	0.0	0	0.0	85 849	2 .0
2001	2852378	66.5	1376116	32.1	49495	1.2	9322	0.2	0	0.0	1 434 933	33.5
2002	4446	0.1	645878	15.2	980493	23.0	799504	18.8	1828042	42.9	4 253 917	99.9
2003	570923	13.3	1031965	24.0	1487759	34.6	1080658	25.1	125594	2.9	3 725 976	86.7
2004	3994871	92.6	309071	7.2	8340	0.2	0	0.0	0	0.0	317 411	7 .4
2005	2348571	54.9	1899520	44.4	27295	0.6	0	0.0	0	0.0	1 926 815	45.1
2006	570252	13.1	1722765	39.4	1660350	38.0	371758	8.5	44165	1.0	3 799 038	86.9
2007	3620988	83.5	716042	16.5	0	0.0	0	0.0	0	0.0	716 042	16.5
2008	4390604	99.9	4645	0.1	0	0.0	0	0.0	0	0.0	4 645	0 .1
2009	18769	0.4	1331447	30.3	1334695	30.4	1332108	30.3	378156	8.6	4 376 406	99.6
2010	193182	4.4	2312038	52.6	1335248	30.4	406091	9.2	144996	3.3	4 198 373	95.6
2011	3856601	86.1	622433	13.9	0	0.0	0	0.0	0	0.0	622 433	13.9
2012	4364250	99.9	2978	0.1	0	0.0	0	0.0	0	0.0	2 978	0 .1
2013	941938	21.2	1696591	38.2	1723127	38.8	80818	1.8	2537	0.1	3 503 073	78.8
2014	346488	7.9	2437722	55.3	1310955	29.7	310651	7.0	2645	0.1	4 061 973	92.1
2015	2150282	47.9	2267955	50.5	72912	1.6	0	0.0	0	0.0	2 340 867	52.1
2016	1195921	26.4	2405419	53.1	426824	9.4	52945	1.2	446195	9.9	3 331 383	73.6
2017	3276116	72.0	1272360	27.9	3973	0.1	0	0.0	0	0.0	1 276 333	28.0
2018	648	0.0	142881	3.1	248011	5.4	857956	18.7	3334045	72.7	4 582 893	100.0
2019	3324988	72.4	1068167	23.2	176580	3.8	25424	0.6	0	0.0	1 270 171	27.6
2020		-		-		-		-		-	-	-
2021		-		-		-		-		-	-	-

SO3-2.T2: National estimates of the percentage of the female population within each drought intensity class.

	Non-exposed		Mild drought		Moderate drought		Severe drought		Extreme drought		Exposed female population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2000	2160166	98.0	44169	2.0	0	0.0	0	0.0	0	0.0	44 169	2 .0

	Non-exposed		Mild drought		Moderate drought		Severe drought		Extreme drought		Exposed female population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2001	1469465	66.8	701198	31.9	24918	1.1	4681	0.2	0	0.0	730 797	33.2
2002	2245	0.1	326572	14.9	499520	22.9	410313	18.8	946007	43.3	2 182 412	99.9
2003	289679	13.1	524892	23.8	765052	34.7	558683	25.4	64915	2.9	1 913 542	86.9
2004	2048163	92.7	157564	7.1	4252	0.2	0	0.0	0	0.0	161 816	7 .3
2005	1202642	54.9	974001	44.5	13717	0.6	0	0.0	0	0.0	987 718	45.1
2006	291993	13.1	876028	39.2	854927	38.2	191620	8.6	22286	1.0	1 944 861	86.9
2007	1855349	83.6	365124	16.4	0	0.0	0	0.0	0	0.0	365 124	16.4
2008	2245449	99.9	2334	0.1	0	0.0	0	0.0	0	0.0	2 334	0 .1
2009	9521	0.4	681942	30.4	684206	30.5	679182	30.2	191313	8.5	2 236 643	99.6
2010	97690	4.4	1178651	52.6	684323	30.5	207815	9.3	74371	3.3	2 145 160	95.6
2011	1969631	86.2	316578	13.8	0	0.0	0	0.0	0	0.0	316 578	13.8
2012	2226634	99.9	1495	0.1	0	0.0	0	0.0	0	0.0	1 495	0 .1
2013	474166	20.9	864284	38.1	884965	39.1	41227	1.8	1270	0.1	1 791 746	79.1
2014	174903	7.8	1240527	55.2	671728	29.9	158195	7.0	1327	0.1	2 071 777	92.2
2015	1086134	47.5	1163575	50.9	37275	1.6	0	0.0	0	0.0	1 200 850	52.5
2016	602579	26.2	1228406	53.3	218100	9.5	27055	1.2	227352	9.9	1 700 913	73.8
2017	1677308	72.3	641089	27.6	1986	0.1	0	0.0	0	0.0	643 075	27.7
2018	324	0.0	72276	3.1	124884	5.3	437041	18.7	1703056	72.9	2 337 257	100.0
2019	1707537	72.8	537059	22.9	88396	3.8	12719	0.5	0	0.0	638 174	27.2
2020		-		-		-		-		-	-	-
2021		-		-		-		-		-	-	-

SO3-2.T3: National estimates of the percentage of the male population within each drought intensity class.

	Non-exposed		Mild drought		Moderate drought		Severe drought		Extreme drought		Exposed male population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2000	2043834	98.0	41680	2.0	0	0.0	0	0.0	0	0.0	41 680	2 .0
2001	1382913	66.3	674918	32.3	24577	1.2	4641	0.2	0	0.0	704 136	33.7
2002	2201	0.1	319306	15.4	480973	23.2	389191	18.8	882035	42.5	2 071 505	99.9
2003	281244	13.4	507073	24.2	722707	34.5	521975	24.9	60679	2.9	1 812 434	86.6
2004	1946708	92.6	151507	7.2	4088	0.2	0	0.0	0	0.0	155 595	7 .4
2005	1145929	55.0	925519	44.4	13578	0.7	0	0.0	0	0.0	939 097	45.0

SO-3: To mitigate, adapt to, and manage the effects of drought in order to enhance resilience of vulnerable populations and ecosystems.

	Non-exposed		Mild drought		Moderate drought		Severe drought		Extreme drought		Exposed male population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2006	278259	13.0	846737	39.7	805423	37.8	180138	8.4	21879	1.0	1 854 177	87.0
2007	1765639	83.4	350918	16.6	0	0.0	0	0.0	0	0.0	350 918	16.6
2008	2145155	99.9	2311	0.1	0	0.0	0	0.0	0	0.0	2 311	0.1
2009	9248	0.4	649505	30.2	650489	30.3	652926	30.4	186843	8.7	2 139 763	99.6
2010	95492	4.4	1133387	52.7	650925	30.3	198276	9.2	70625	3.3	2 053 213	95.6
2011	1886970	86.1	305855	13.9	0	0.0	0	0.0	0	0.0	305 855	13.9
2012	2137616	99.9	1483	0.1	0	0.0	0	0.0	0	0.0	1 483	0.1
2013	467772	21.5	832307	38.2	838162	38.5	39591	1.8	1267	0.1	1 711 327	78.5
2014	171585	7.9	1197195	55.4	639227	29.6	152456	7.1	1318	0.1	1 990 196	92.1
2015	1064148	48.3	1104380	50.1	35637	1.6	0	0.0	0	0.0	1 140 017	51.7
2016	593342	26.7	1177013	52.9	208724	9.4	25890	1.2	218843	9.8	1 630 470	73.3
2017	1598808	71.6	631271	28.3	1987	0.1	0	0.0	0	0.0	633 258	28.4
2018	324	0.0	70605	3.1	123127	5.5	420915	18.7	1630989	72.6	2 245 636	100.0
2019	1617451	71.9	531108	23.6	88184	3.9	12705	0.6	0	0.0	631 997	28.1
2020		-		-		-		-		-	-	-
2021		-		-		-		-		-	-	-

Qualitative assessment

Interpretation of the indicator

General comments

SO3-3 Trends in the degree of drought vulnerability

Drought Vulnerability Index

SO3-3.T1: National estimates of the Drought Vulnerability Index

Year	Total country-level DVI value (tier 1)	Male DVI value (tiers 2 and 3 only)	Female DVI value (tiers 2 and 3 only)
2000			
2001			
2002			
2003			
2004			
2005			
2006			
2007			
2008			
2009			
2010			
2011			
2012			
2013			
2014			
2015			
2016			
2017			
2018	3 .99		
2019			
2020			
2021			

Method

Which tier level did you use to compute the DVI?

☐ Tier 1 Vulnerability Assessment ⓘ
☐ Tier 2 Vulnerability Assessment ⓘ
☐ Tier 3 Vulnerability Assessment ⓘ

Qualitative assessment

SO3-3.T2: Interpretation of the indicator

	Change in the indicator	Comments

General comments

SO-3: To mitigate, adapt to, and manage the effects of drought in order to enhance resilience of vulnerable populations and ecosystems.

SO3 Voluntary Targets

SO3-VT.T1

Target	Year	Level of application	Status of target achievement	Comments

General comments

SO4-1 Trends in carbon stocks above and below ground

Soil organic carbon stocks

Trends in carbon stock above and below ground is a multi-purpose indicator used to measure progress towards both strategic objectives 1 and 4. Quantitative data and a qualitative assessment of trends in this indicator are reported under strategic objective 1, progress indicator SO1-3.

SO4-2 Trends in abundance and distribution of selected species

SO4-2.T1: National estimates of the Red List Index of species survival

Year	Red List Index	Lower Bound	Upper Bound	Comment
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008				
2009				
2010				
2011				
2012				
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				

Qualitative assessment

SO4-2.T2: Interpretation of the indicator

Change in the indicator	Drivers: Direct (Choose one or more items)	Drivers: Indirect (Choose one or more items)	Which levers are being used to reverse negative trends and enable transformative change?	Responses that led to positive RLI trends	Comments

General comments

Pre-filled data not checked and thus removed. No reporting on this category.

SO4-3 Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type

SO4-3.T1: National estimates of the average proportion of Terrestrial KBAs covered by protected areas (%)

Year	Protected Areas Coverage(%)	Lower Bound	Upper Bound	Comments
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008				
2009				
2010				
2011				
2012				
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				

Qualitative assessment

SO4-3.T2: Interpretation of the indicator

Qualitative Assessment	Comment

General comments

SO4 Voluntary Targets

SO4-VT.T1

Target	Year	Level of application	Status of target achievement	Comments

Complementary information

SO5-1 Bilateral and multilateral public resources

Tier 1: Please provide information on the international public resources provided and received for the implementation of the Convention, including information on trends.

Trends in international bilateral and multilateral public resources provided

- ○ Up ↑
- ○ Stable ←→
- ◉ Down ↓
- ○ Unknown ≈

Trends in international bilateral and multilateral public resources received

- ○ Up ↑
- ○ Stable ←→
- ○ Down ↓
- ○ Unknown ≈

Tier 2: Table 1 Financial resources provided and received

		Total Amount USD	
Provided / Received	Year	Committed	Disbursed / Received
Provided	2016	Committed 3 534 295 .25	Disbursed 25 022 108 .42
Provided	2017	Committed 4 519 189 .65	Disbursed 17 660 232 .05
Provided	2018	Committed 11 780 583 .10	Disbursed 11 586 979 .08
Provided	2019	Committed 11 780 191 .36	Disbursed 21 929 024 .63
Received	2016	Committed 0	Received 0
Received	2017	Committed 0	Received 0
Received	2018	Committed 0	Received 0
Received	2019	Committed 0	Received 0
Total resources provided:		31 614 259 .36	76 198 344 .18
Total resources received:		0	0

Documentation box

	Explanation
Year	
Recipient / Provider	
Title of project, programme, activity or other	
Total Amount USD	
Sector	
Capacity Building	
Technology Transfer	
Gender Equality	

	Explanation
Channel	
Type of flow	
Financial Instrument	
Type of support	
Amount mobilised through public interventions	
Additional Information	

General comments

The data for funding commitments and extensions used in the reporting were collected from the Ministry for Foreign Affairs internal AHA database. The annual totals in Euro were converted into USD using the average annual conversion rates for 2016-2019 by the Bank of Finland: https://www.suomenpankki.fi/fi/Tilastot/valuuttakurssit/taulukot/valuuttakurssit_taulukot_fi/valuuttakurssit_short_fi/ The share of 12 % was used to determine the support to desertification/land degradation of the total support by Finland to the Global Environmental Facility.

SO5-2 Domestic public resources

Tier 1: Please provide information on the domestic public expenditures, including subsidies, and revenues, including taxes, directly and indirectly related to the implementation of the Convention, including information on trends.

Trends in domestic public expenditures and national level financing for activities relevant to the implementation of the Convention

- ○ Up ↑
- ○ Stable ←→
- ○ Down ↓
- ○ Unknown ∾

Trends in domestic public revenues from activities related to the implementation of the Convention

- ○ Up ↑
- ○ Stable ←→
- ○ Down ↓
- ○ Unknown ∾

Tier 2: Table 2 Domestic public resources

	Year	Amounts	Additional Information
Government expenditures			
Directly related to combat DLDD			
Indirectly related to combat DLDD			
Subsidies			
Subsidies related to combat DLDD			
Total expenditures / total per year			

	Year	Amounts	Additional Information
Government revenues			
Environmental taxes for the conservation of land resources and taxes related to combat DLDD			
Total revenues / total per year			

Documentation box

	Explanation
Government expenditures	
Subsidies	
Government revenues	
Domestic resources directly or indirectly related to combat DLDD	

Has your country set a target for increasing and mobilizing domestic resources for the implementation of the Convention?

- ○ Yes
- ○ No

General comments

SO5-3 International and domestic private resources

Tier 1: Please provide information on the international and domestic private resources mobilized by the private sector of your country for the implementation of the Convention, including information on trends.

Trends in international private resources

- ○ Up ↑
- ○ Stable ←→
- ○ Down ↓
- ○ Unknown ∾

Trends in domestic private resources

- ○ Up ↑
- ○ Stable ←→
- ○ Down ↓
- ○ Unknown ∾

Tier 2: Table 3 International and domestic private resources

Year	Title of project, programme, activity or other	Total Amount USD	Financial Instrument	Type of institution	Recipient	Additional Information
	Total	0				

Please provide methodological information relevant to data presented in table 3

Has your country taken measures to encourage the private sector as well as non-governmental organizations, foundations and academia to provide international and domestic resources for the implementation of the Convention?

General comments

SO5-4 Technology transfer

Tier 1: Please provide information relevant to the resources provided, received for the transfer of technology for the implementation of the Convention, including information on trends.

Trends in international bilateral and multilateral public resources provided

- ○ Up ↑
- ○ Stable ←→
- ○ Down ↓
- ○ Unknown ∾

Trends in international bilateral and multilateral public resources received

- ○ Up ↑
- ○ Stable ←→
- ○ Down ↓
- ○ Unknown ∾

Tier 2: Table 4 Resources provided and received for technology transfer measures or activities

Provided Received	Year	Title of project, programme, activity or other	Amount	Recipient Provider	Description and objectives	Sector	Type of technology	Activities undertaken by	Status of measure or activity	Timeframe of measure or activity	Use, impact and estimated results	Additional Information
Total provided:			0			Total received:		0				

Please provide methodological information relevant to data presented in table 4

Include information on underlying assumptions, definitions and methodologies used to identify and report on technology transfer support provided and/or received and/or required. Please include links to relevant documentation.

Please provide information on the types of new or current technologies required by your country to address desertification, land degradation and drought (DLDD), and the challenges encountered in acquiring or developing such technologies.

General comments

SO5-5 Future support for activities related to the implementation of the Convention

SO5-5.1: Planned provision and mobilization of domestic public and private resources

Please provide information relevant to the planned provision and mobilization of domestic resources for the implementation of the Convention, including information relevant to indicator SO5-2, as well as information on projected levels of public financial resources, target sectors and planned domestic policies.

SO5-5.2: Planned provision and mobilization of international public and private resources

Please provide information relevant to the planned provision and mobilization of international resources for the implementation of the Convention, including information on projected levels of public financial resources and support to capacity building and transfer of technology, target regions or countries, and planned programmes, policies and priorities.

SO5-5.3: Resources needed

Please provide information relevant to the financial resources needed for the implementation of the Convention, including on the projects and regions which needs most support and on which your country has focused to the greatest extent.

General comments

Financial and Non-Financial Sources

Increasing the mobilization of resources:

Would you like to share an experience on how your country has increased the mobilization of resources within the reporting period?

- Yes
- No

Using Land Degradation Neutrality as a framework to increase investment:

From your perspective, would you consider that you have taken advantage of the LDN concept to enhance the coherence, effectiveness and multiple benefits of investments?

- Yes
- No

Improving existing and/or innovative financial processes and institutions

From your perspective, do you consider that your country has improved the use of existing and/or innovative financial processes and institutions?

- Yes
- No

Policy and Planning

Action Programmes:

Has your country developed or helped develop, implement, revise or regularly monitor your national action programme?

- Yes
- No

Policies and enabling environment:

During the reporting period, has your country established or helped establish policies and enabling environments to promote and/or implement solutions to combat desertification/land degradation and mitigate the effects of drought?

- Yes
- No

Synergies:

From your perspective, has your country leveraged synergies and integrated DLDD into national plans related to other MEAs, particularly the other Rio Conventions and other international commitments?

- Yes
- No

Mainstreaming desertification, land degradation and drought:

From your perspective, did your country take specific actions to mainstream, DLDD in economic, environmental and social policies, with a view to increasing the impact and effectiveness of the implementation of the Convention?

- Yes
- No

Drought-related policies:

Has your country established or is your country establishing national policies, measures and governance for drought preparedness and management?

- Yes
- No

Has your country supported other countries in establishing policies, measures and governance for drought preparedness and management, in accordance with the mandate of the Convention?

- Yes
- No

Action on the Ground

Sustainable land management practices:

Has your country implemented or is your country implementing sustainable land management (SLM) practices to address DLDD?

- Yes
- No

Has your country supported other countries in the implementation of SLM practices?

- Yes
- No

Restoration and Rehabilitation:

Has your country implemented or is your country implementing restoration and rehabilitation practices in order to assist with the recovery of ecosystem functions and services?

- Yes
- No

Drought risk management and early warning systems:

Is your country developing a drought risk management plan, monitoring or early warning systems and safety net programmes to address DLDD?

- Yes
- No

Has your country supported other countries in developing drought risk management, monitoring and early warning systems and safety net programmes to address DLDD?

- Yes
- No

Alternative livelihoods:

Does your country promote alternative livelihoods practice in the context of DLDD?

- Yes
- No

Do you consider your country to be taking special measures to engage women and youth in promoting alternative livelihoods?

- Yes
- No

Establishing knowledge sharing systems:

Has your country established systems for sharing information and knowledge and facilitating networking on best practices and approaches to drought management?

- Yes
- No

Do you consider that your country has implemented specific actions that promote women's access to knowledge and technology?

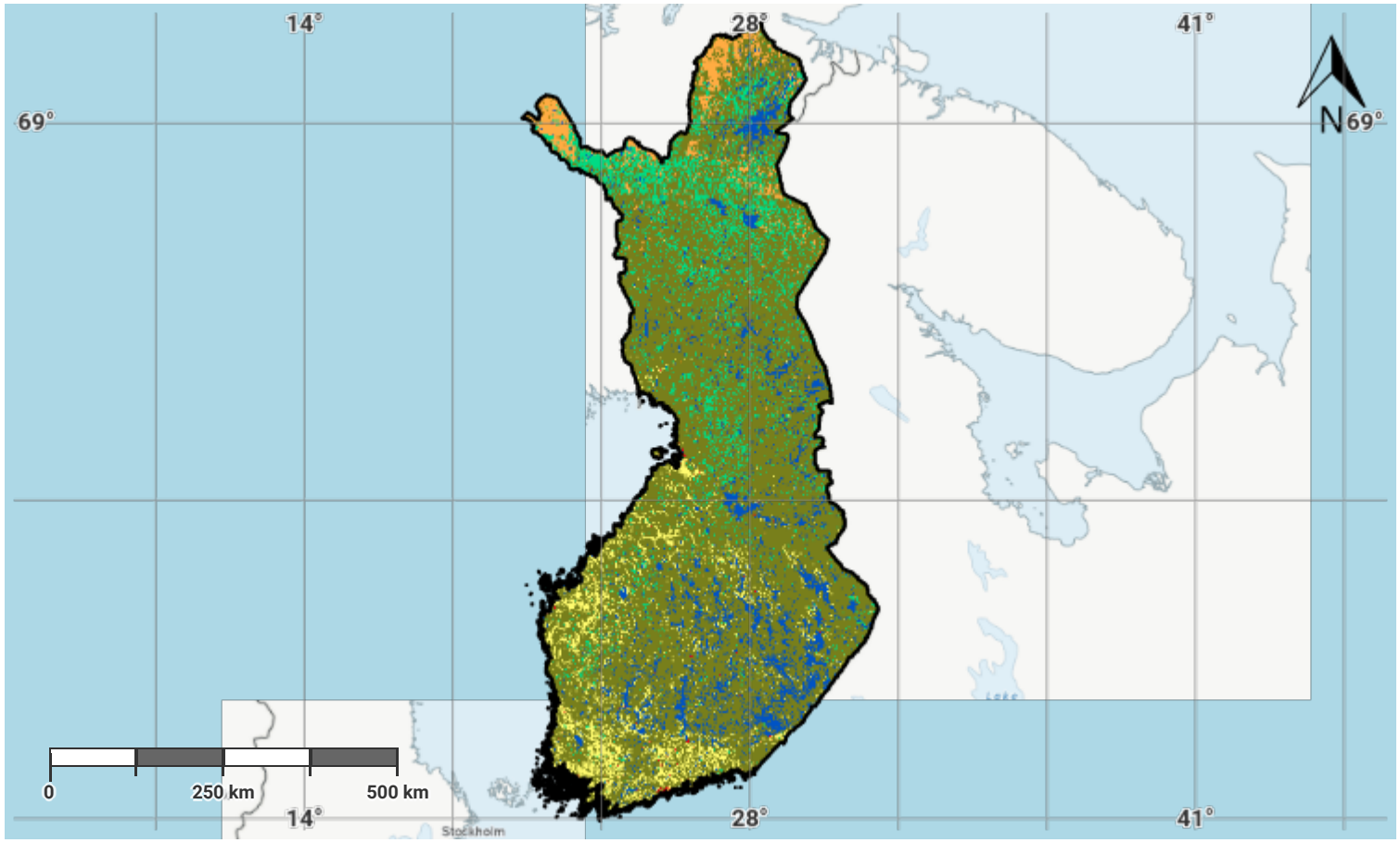
- ○ Yes
- ○ No

Other files for Reporting

Finland - SO5-1 provider	Download	77.2 KB

Finland – SO1-1.M1

Land cover in the initial year of the baseline period



Legend

- No data
- Tree-covered
- Grassland
- Cropland
- Wetland
- Artificial
- Other land
- Water body
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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Source Data Credits

- United Nations Clear Map, United Nations Geospatial.
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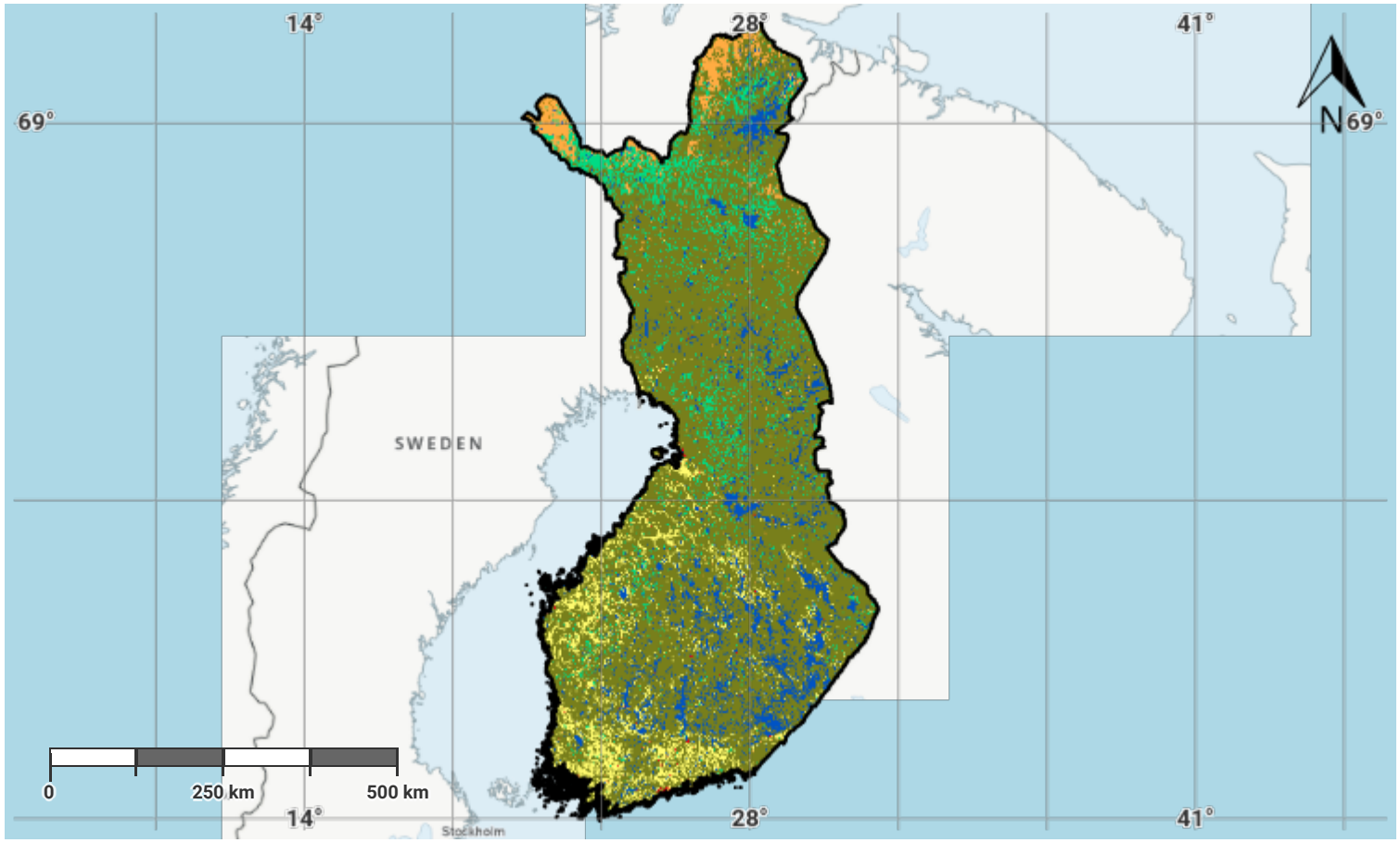
Finland – SO1-1.M2

Land cover in the baseline year



Legend

- No data
- Tree-covered
- Grassland
- Cropland
- Wetland
- Artificial
- Other land
- Water body
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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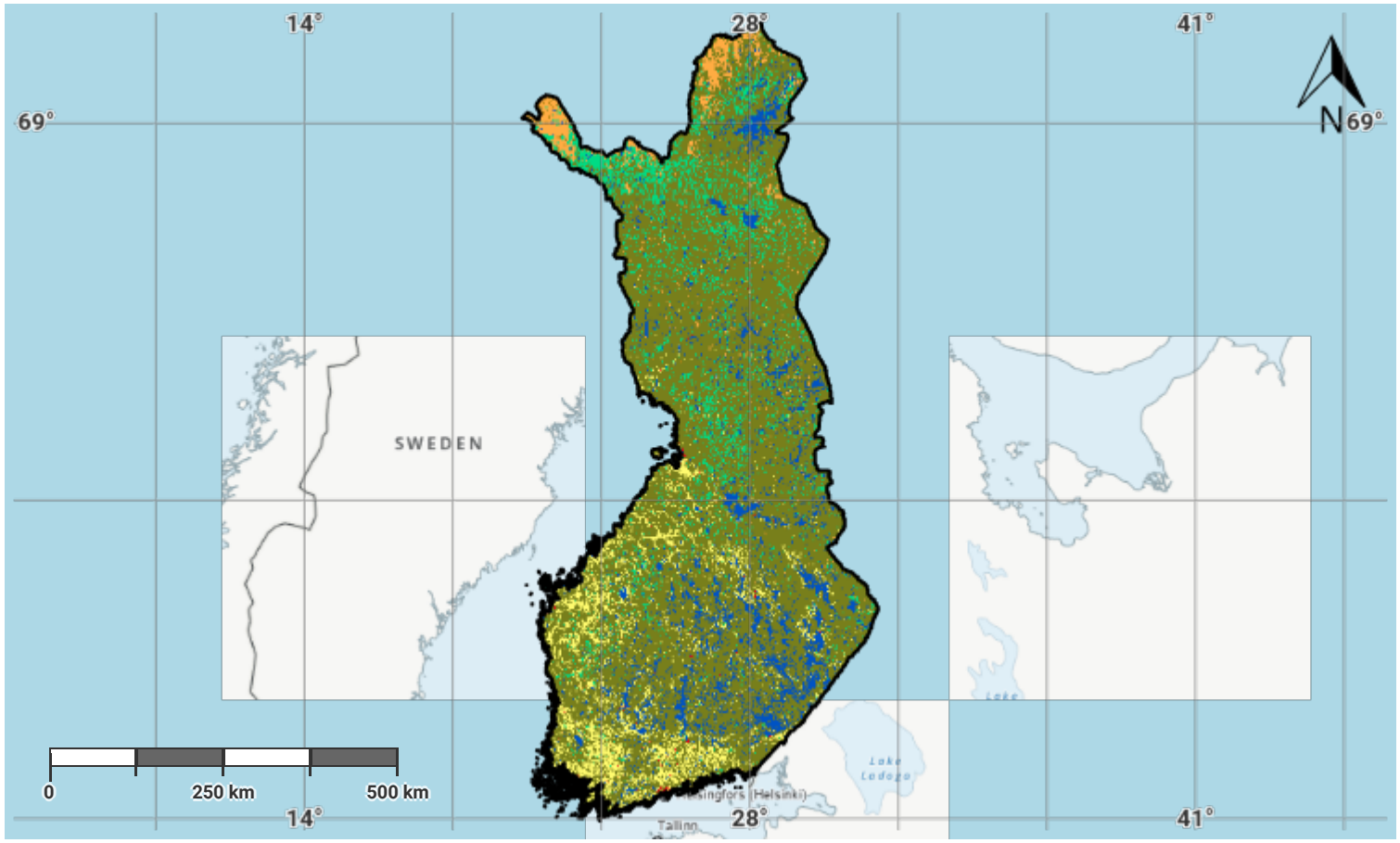
Finland – SO1-1.M3

Land cover in the latest reporting year



Projection: EPSG:3857 (Web Mercator)

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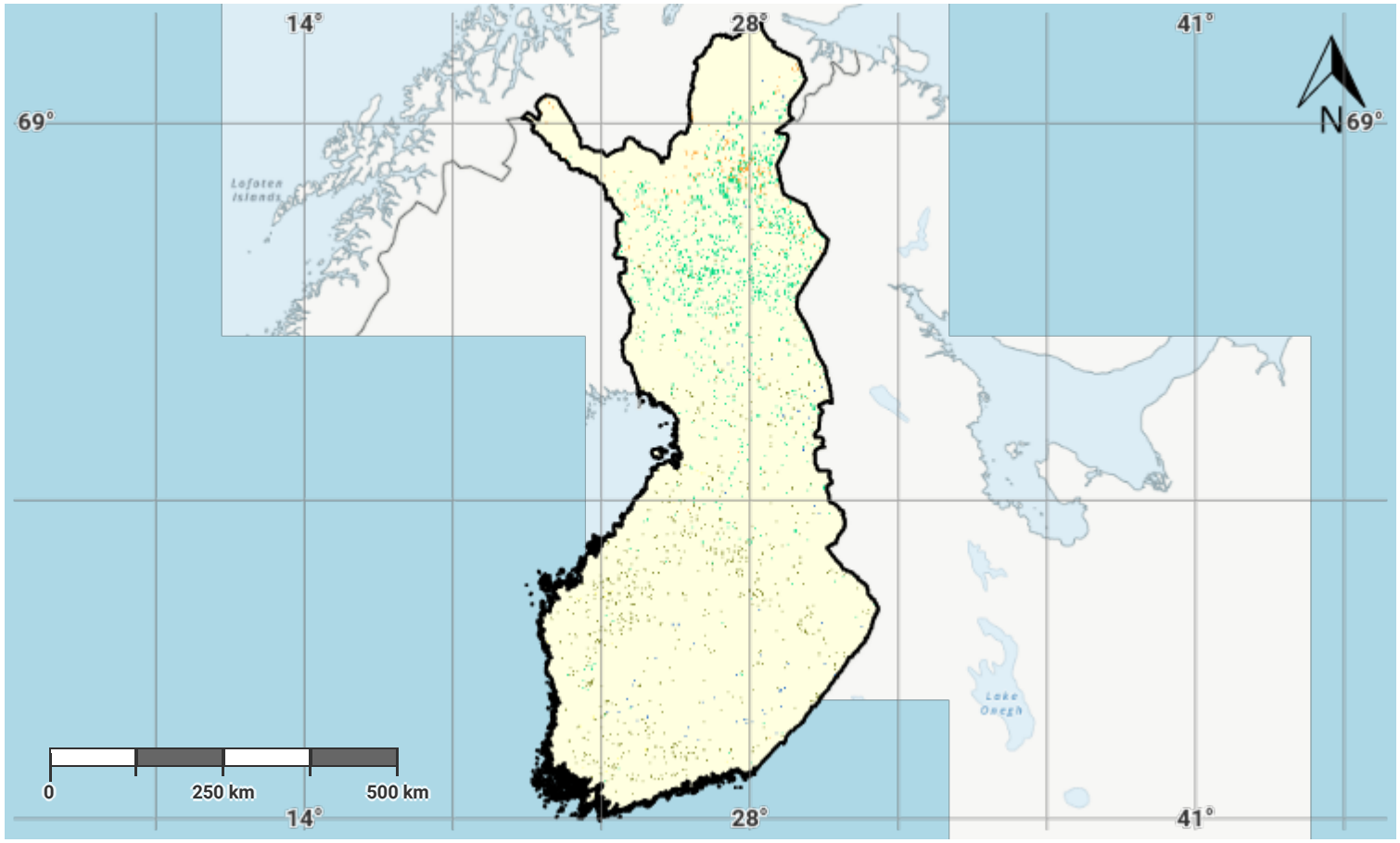
Finland – SO1-1.M4

Land cover change in the baseline period



Legend

- No data
- No change
- Tree-covered loss
- Grassland loss
- Cropland loss
- Wetland loss
- Artificial loss
- Other land loss
- Water body loss
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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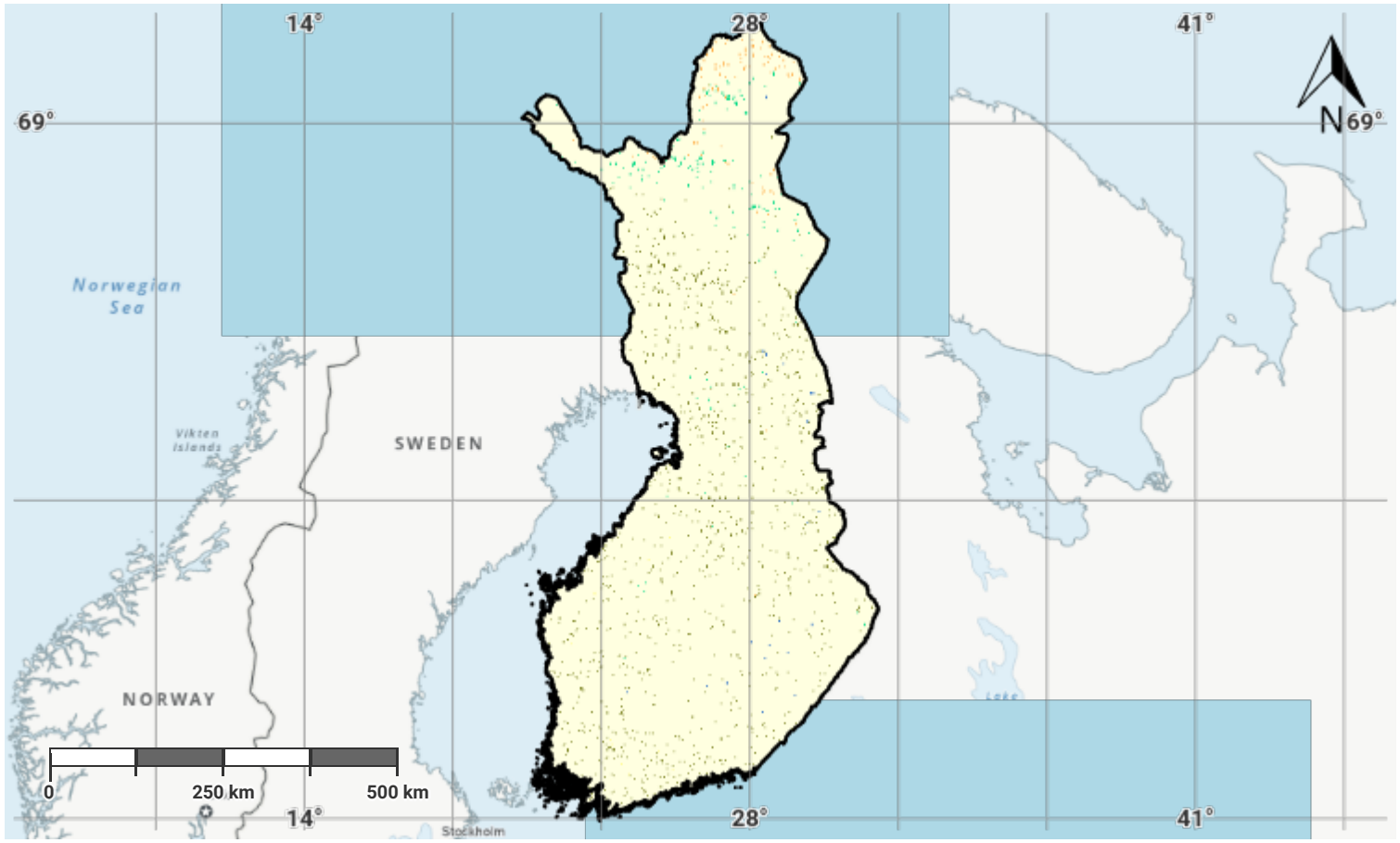
Finland – SO1-1.M5

Land cover change in the reporting period



Legend

- No data
- No change
- Tree-covered loss
- Grassland loss
- Cropland loss
- Wetland loss
- Artificial loss
- Other land loss
- Water body loss
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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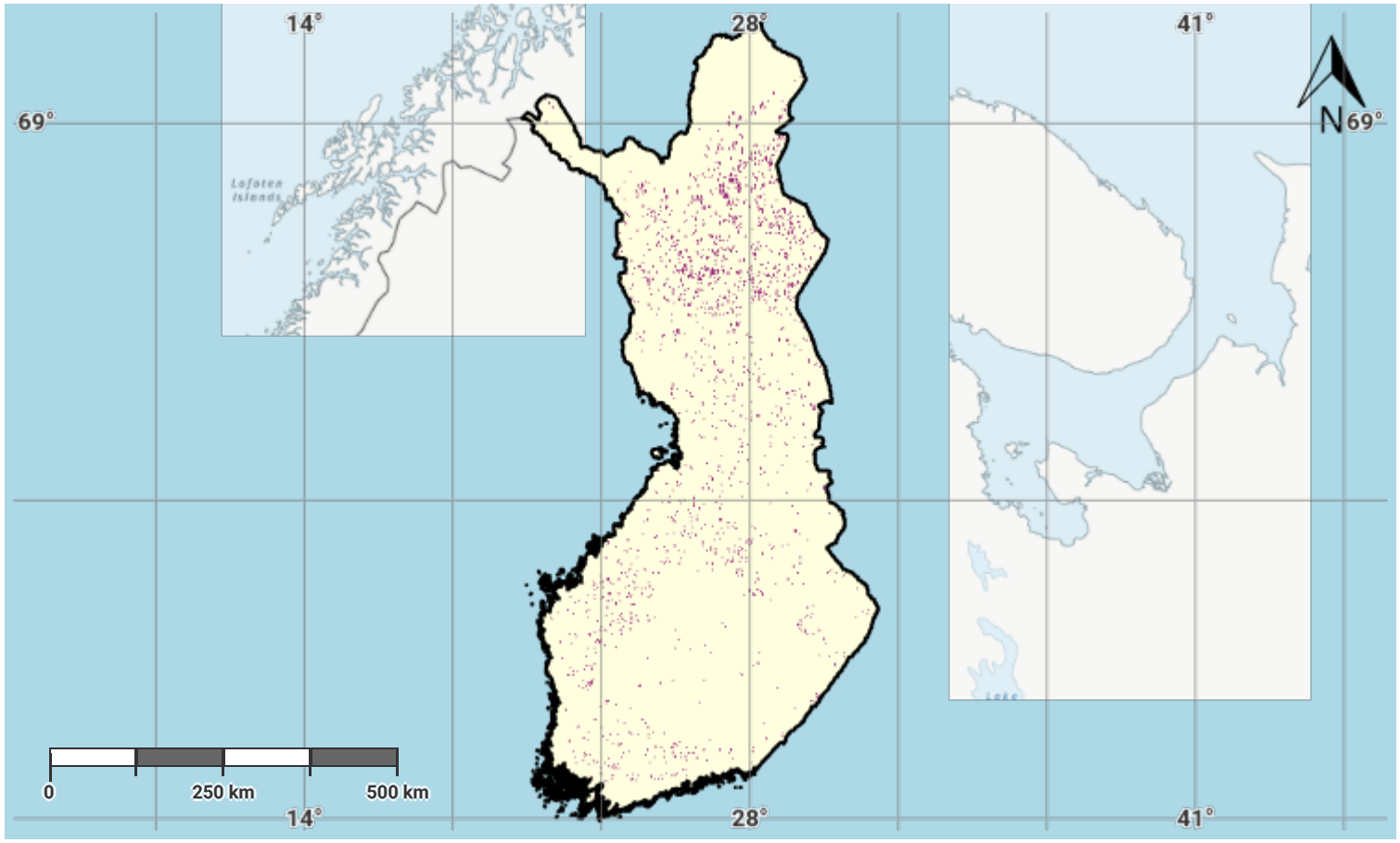
Finland – SO1-1.M6

Land cover degradation in the baseline period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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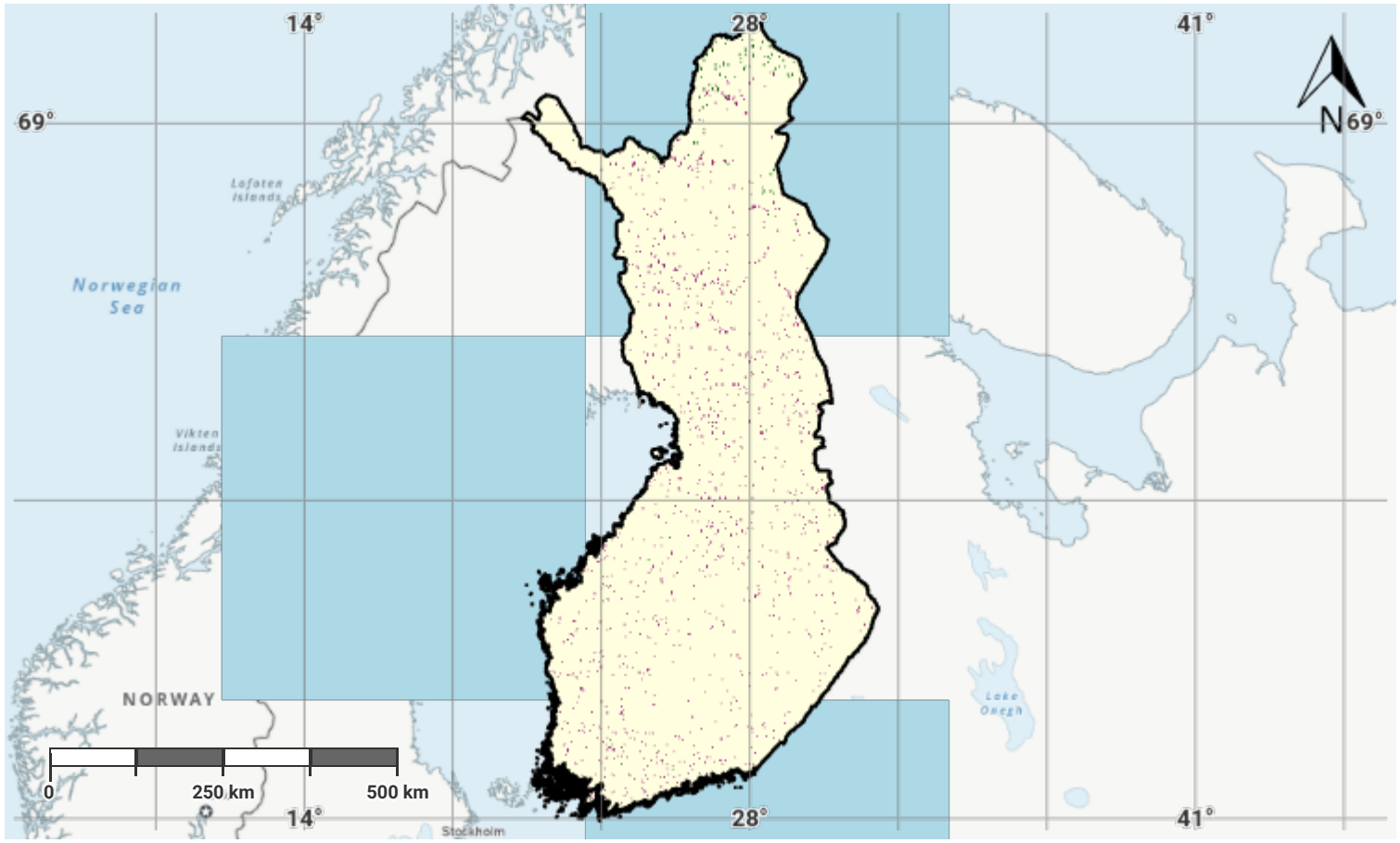
Finland – SO1-1.M7

Land cover degradation in the reporting period



Legend

- No data
- Degradation
- Stable
- Improvement
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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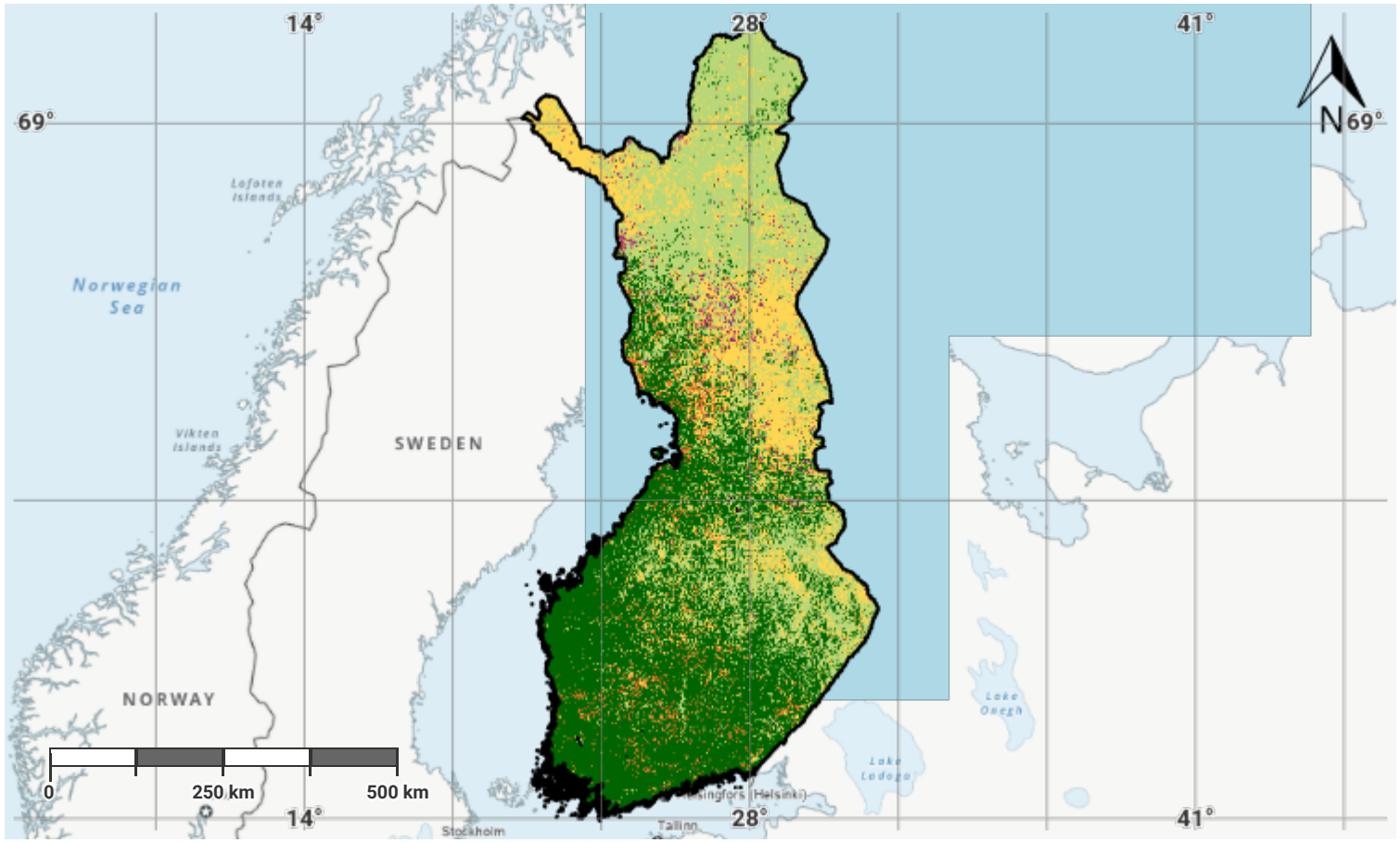
Finland – SO1-2.M1

Land productivity dynamics in the baseline period



Legend

- No data
- Declining
- Moderate decline
- Stressed
- Stable
- Increasing
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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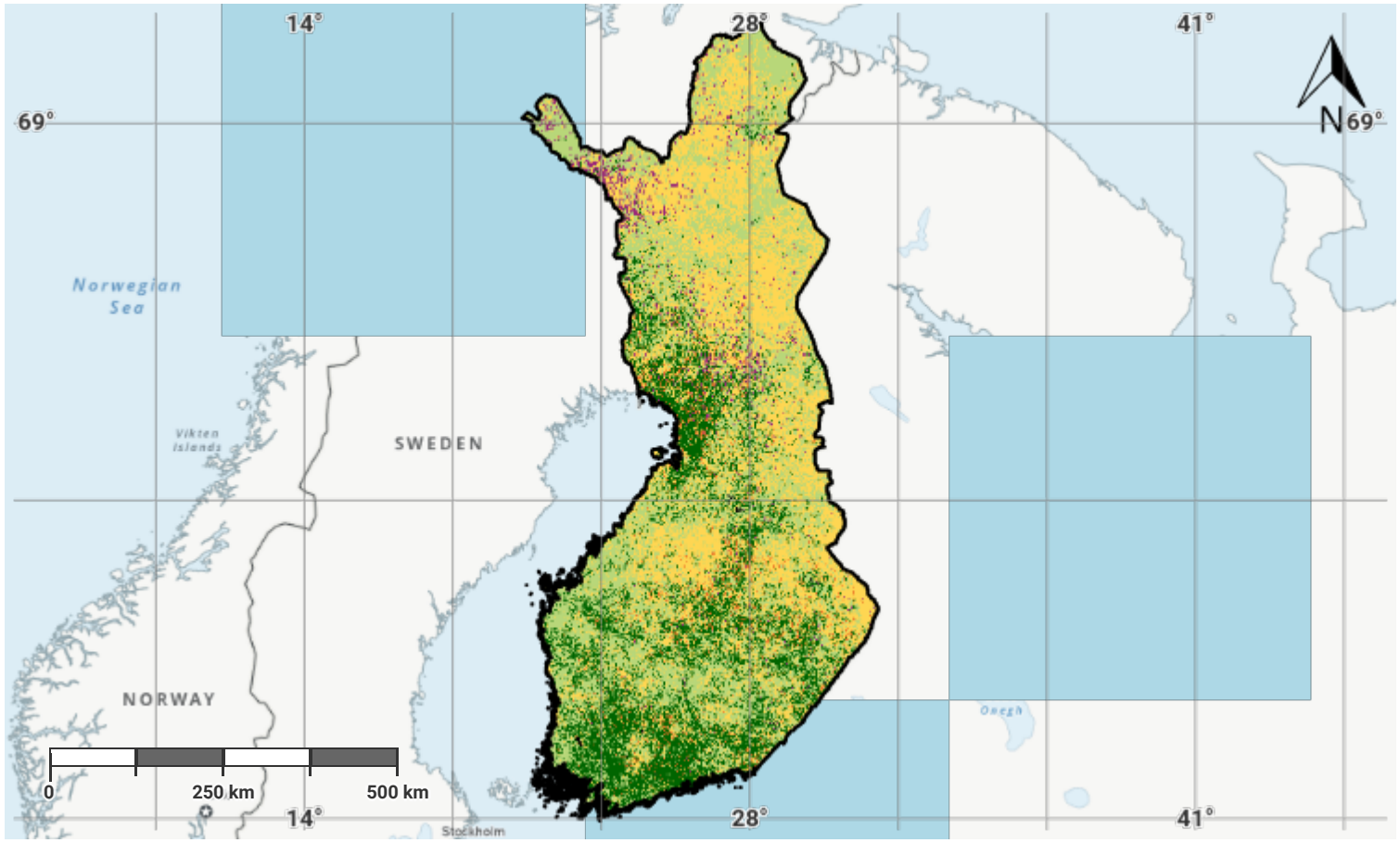
Finland – SO1-2.M2

Land productivity dynamics in the reporting period



Projection: EPSG:3857 (Web Mercator)

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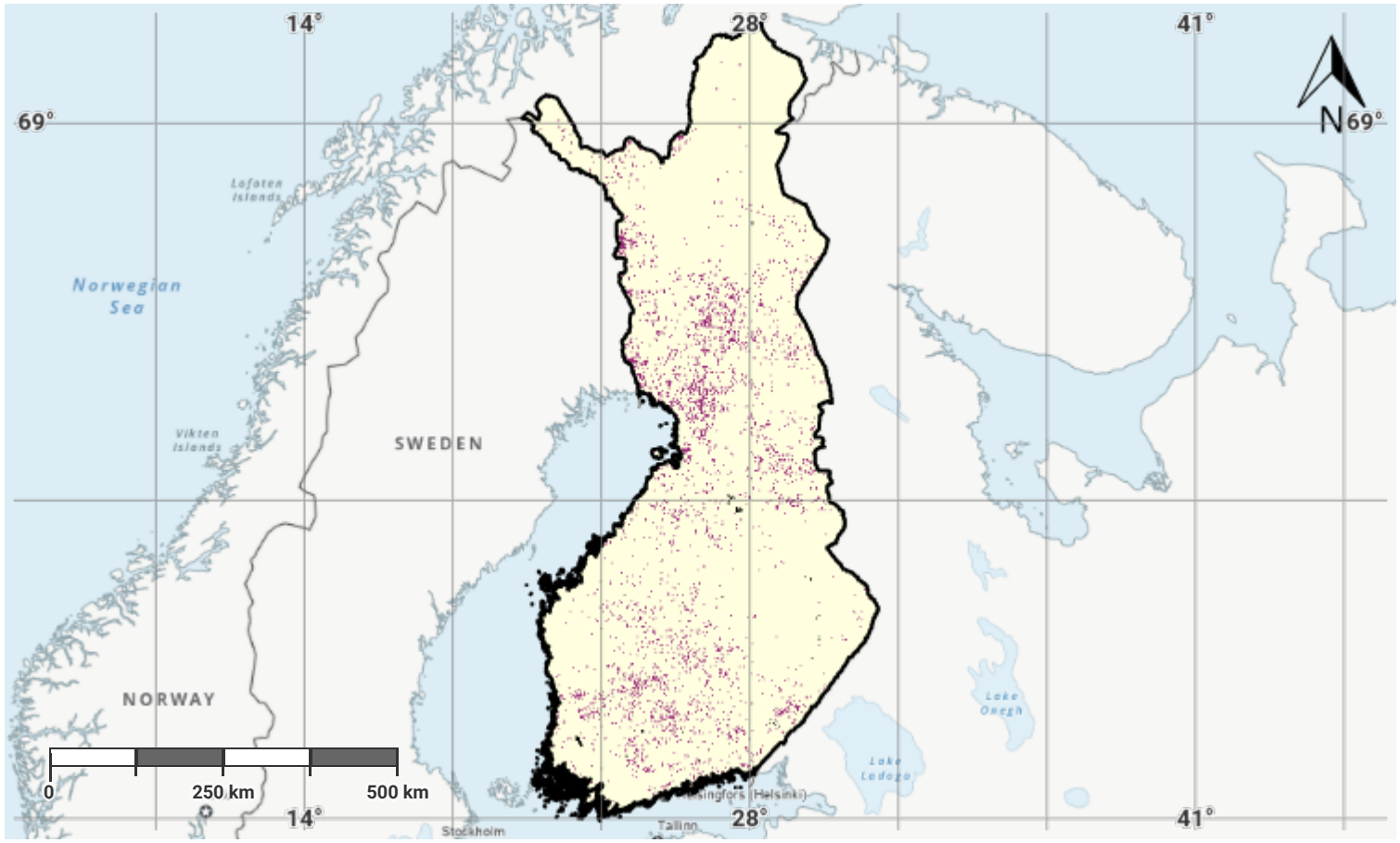
Finland – SO1-2.M3

Land productivity degradation in the baseline period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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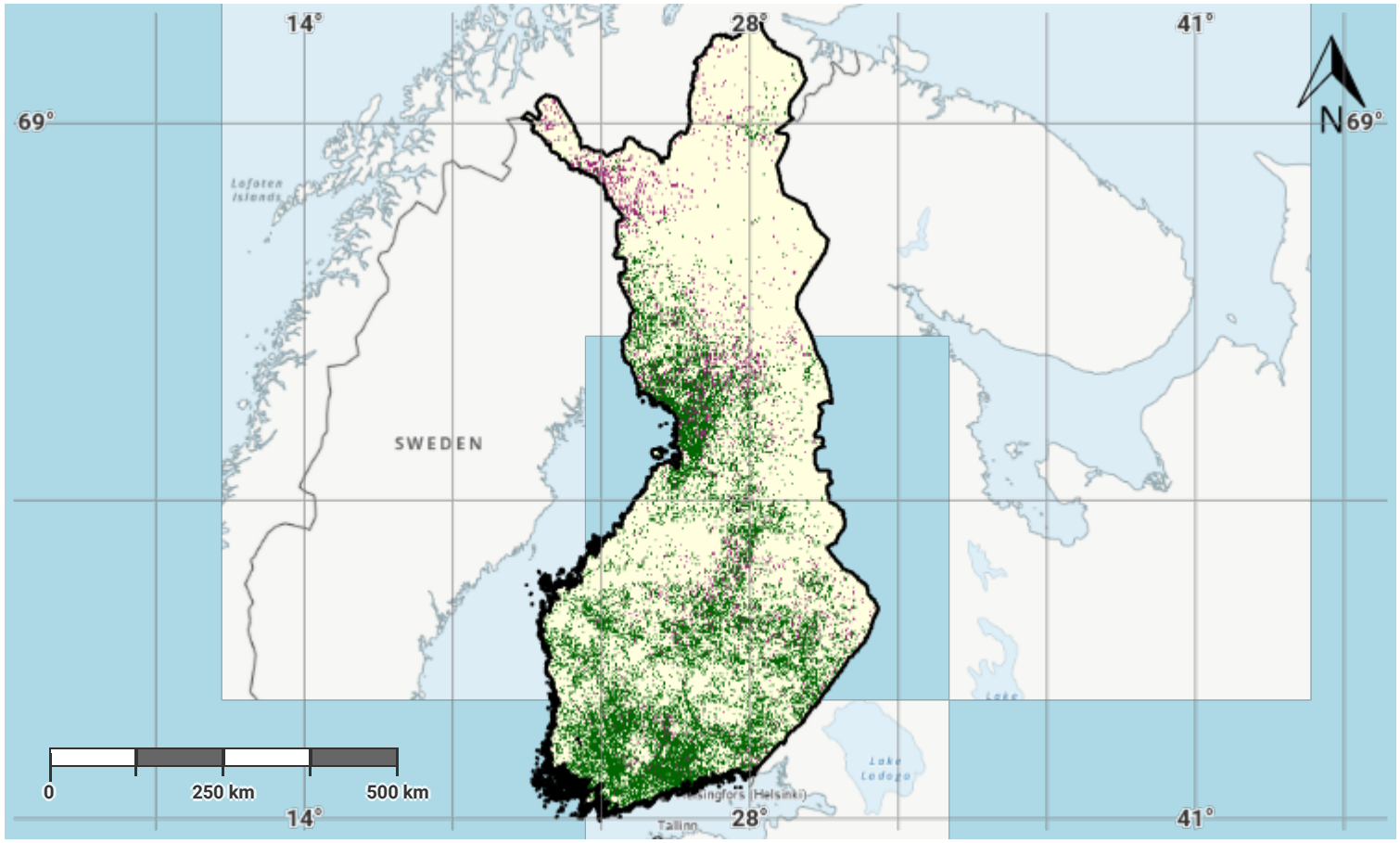
Finland – SO1-2.M4

Land productivity degradation in the reporting period



Projection: EPSG:3857 (Web Mercator)

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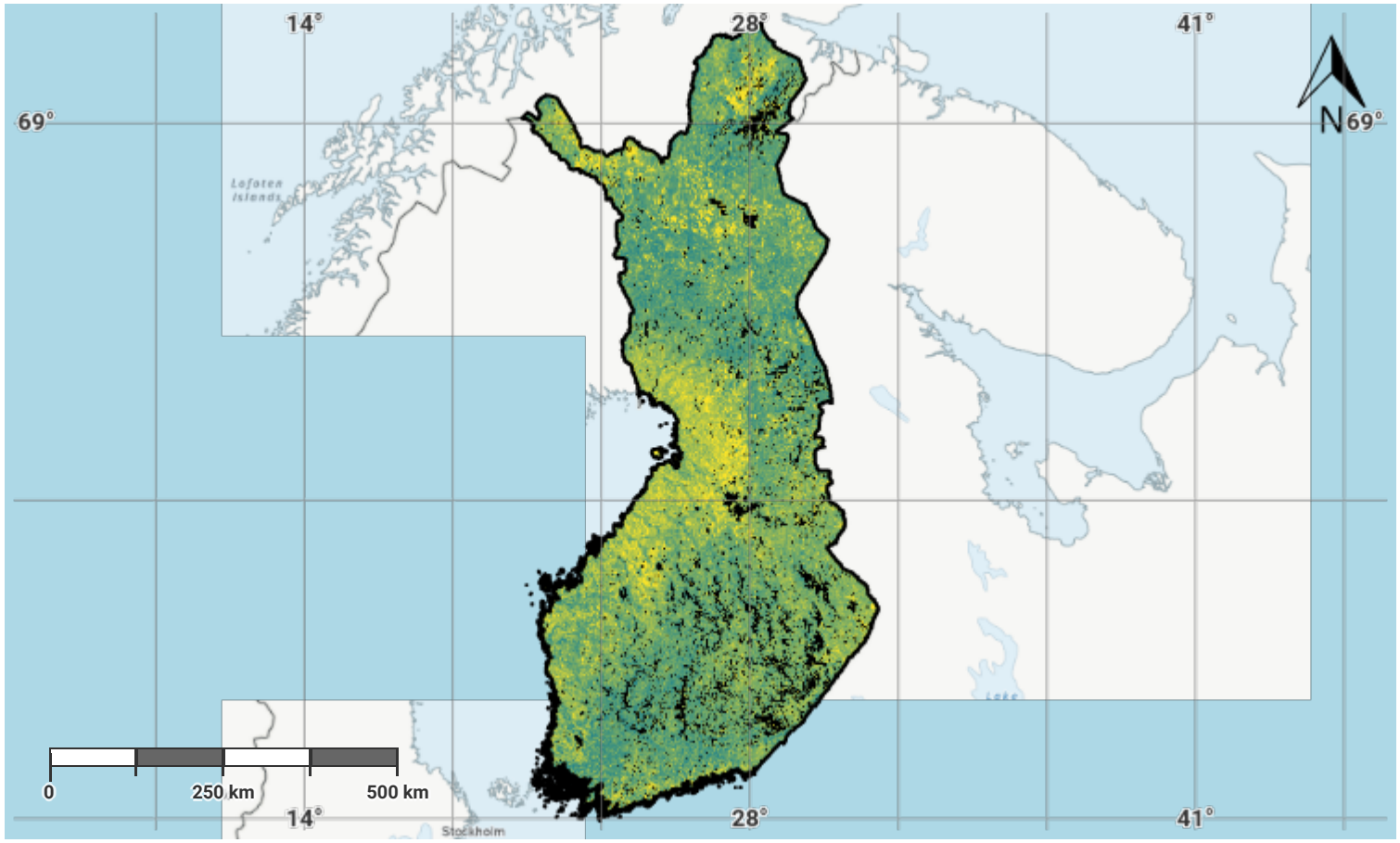
Finland – SO1-3.M1

Soil organic carbon stock in the initial year of the baseline period



Legend

- No data
- 0 - 125.5 t/ha
- 125.5 - 251.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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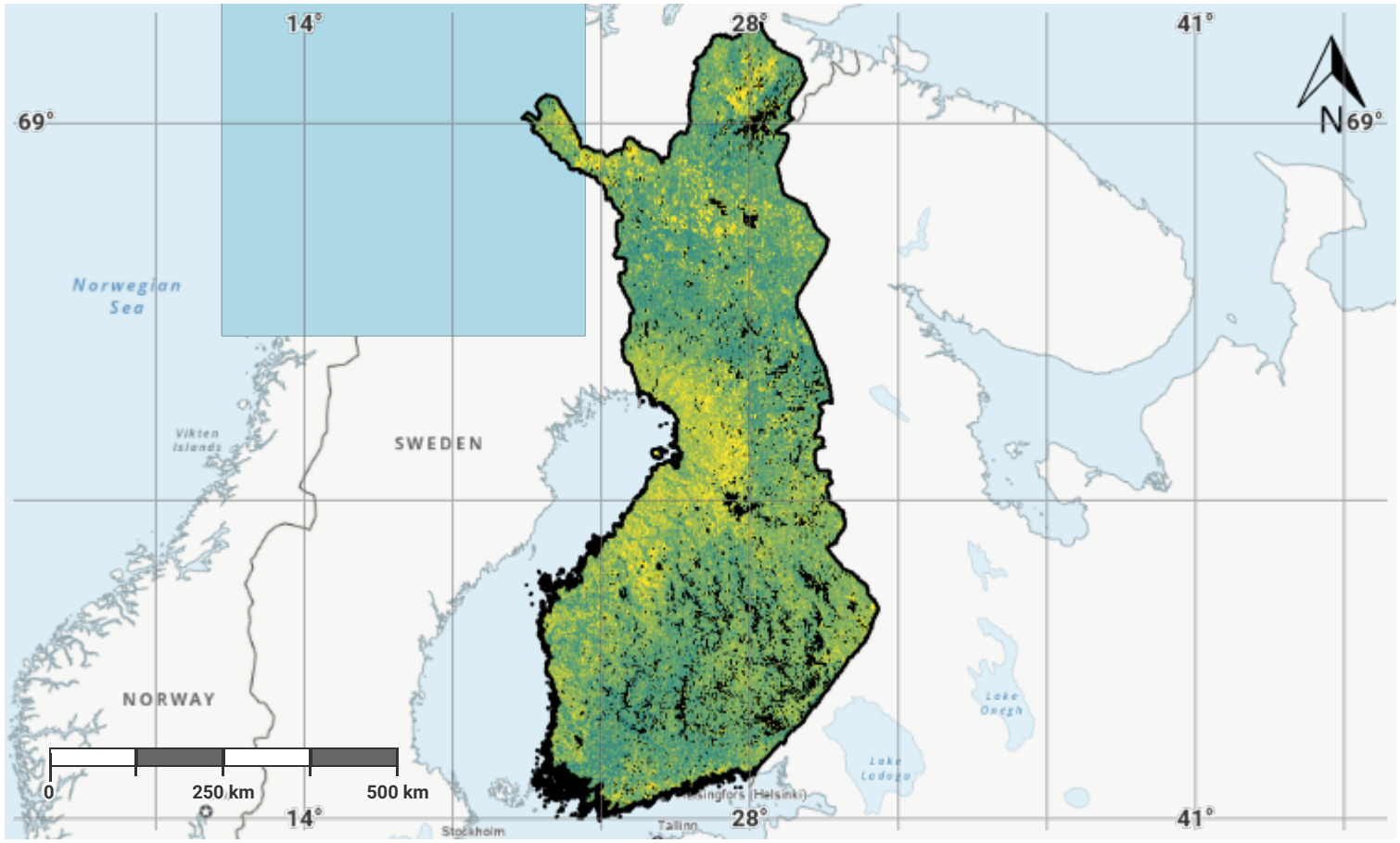
Finland – SO1-3.M2

Soil organic carbon stock in the baseline year



Projection: EPSG:3857 (Web Mercator)

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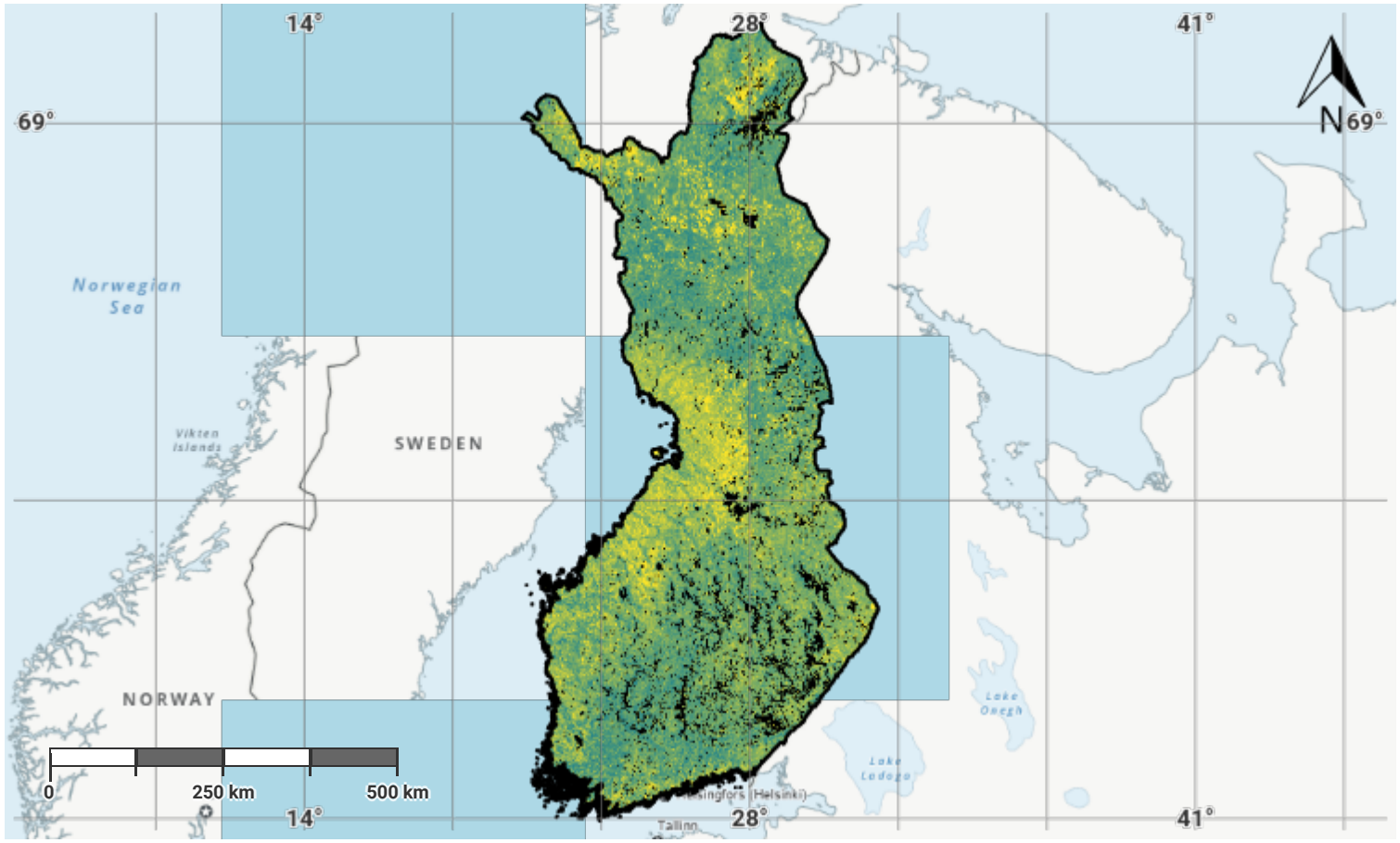
Finland – SO1-3.M3

Soil organic carbon stock in the latest reporting year



Legend

- No data
- 0 - 125.5 t/ha
- 125.5 - 251.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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Finland – SO1-3.M4

Change in soil organic carbon stock in the baseline period

Legend

- No data
- -12.0 - 0 t/ha
- 0 - 12.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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Finland – SO1-3.M5

Change in soil organic carbon stock in the reporting period

Legend

- No data
- -4.0 - 0 t/ha
- 0 - 4.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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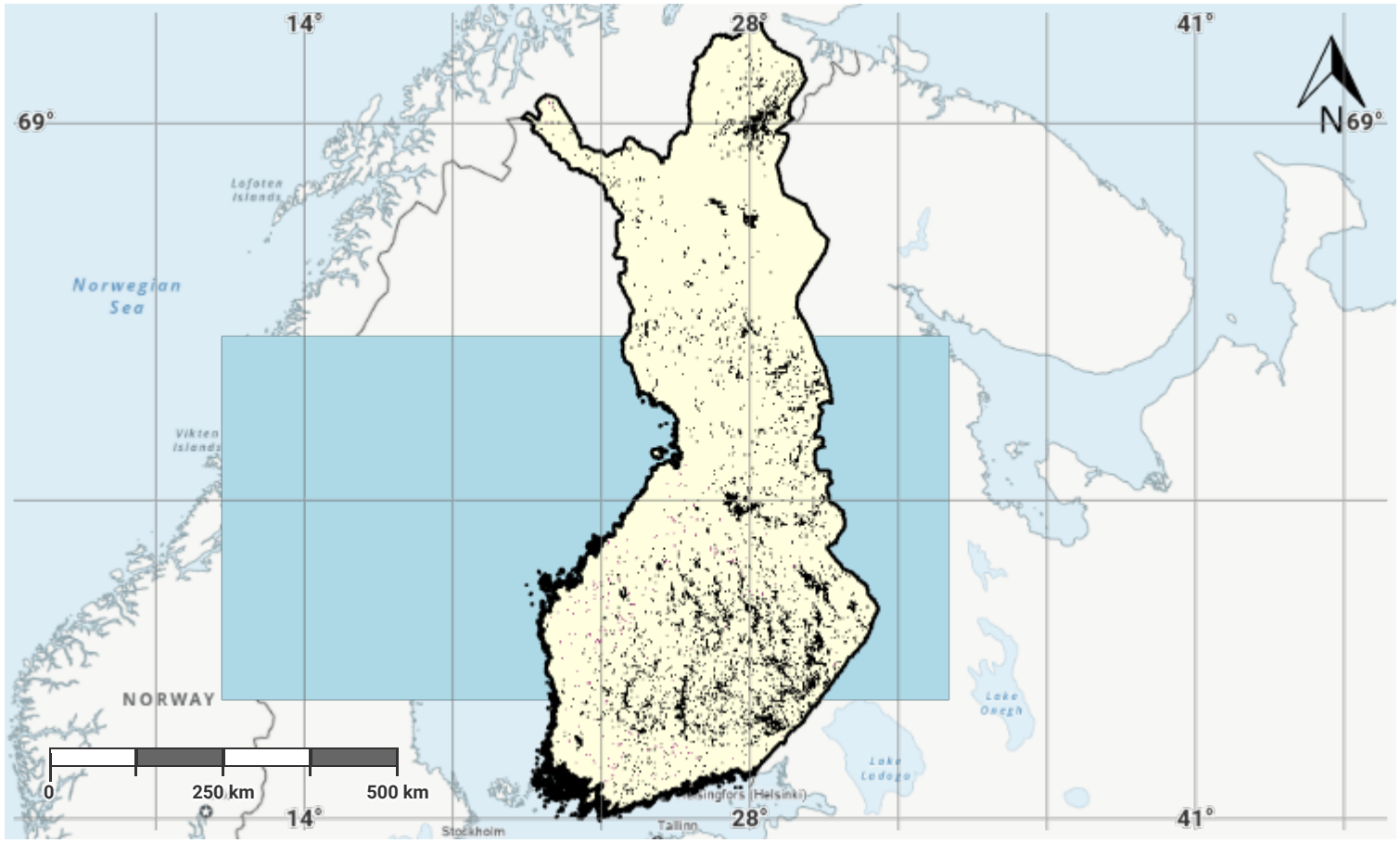
Finland – SO1-3.M6

Soil organic carbon degradation in the baseline period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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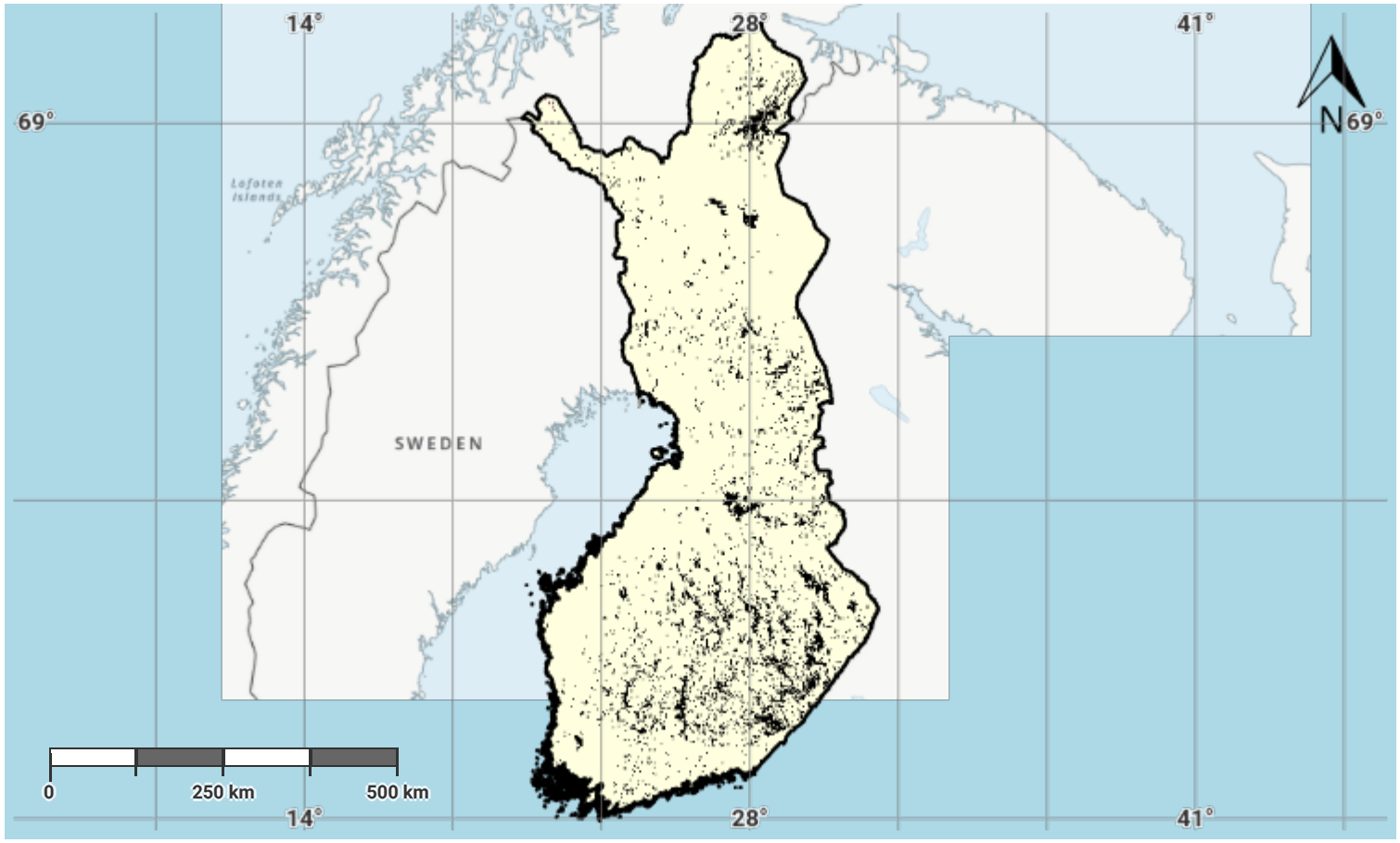
Finland – SO1-3.M7

Soil organic carbon degradation in the reporting period



Legend

- No data
- Degradation
- Stable
- Improvement
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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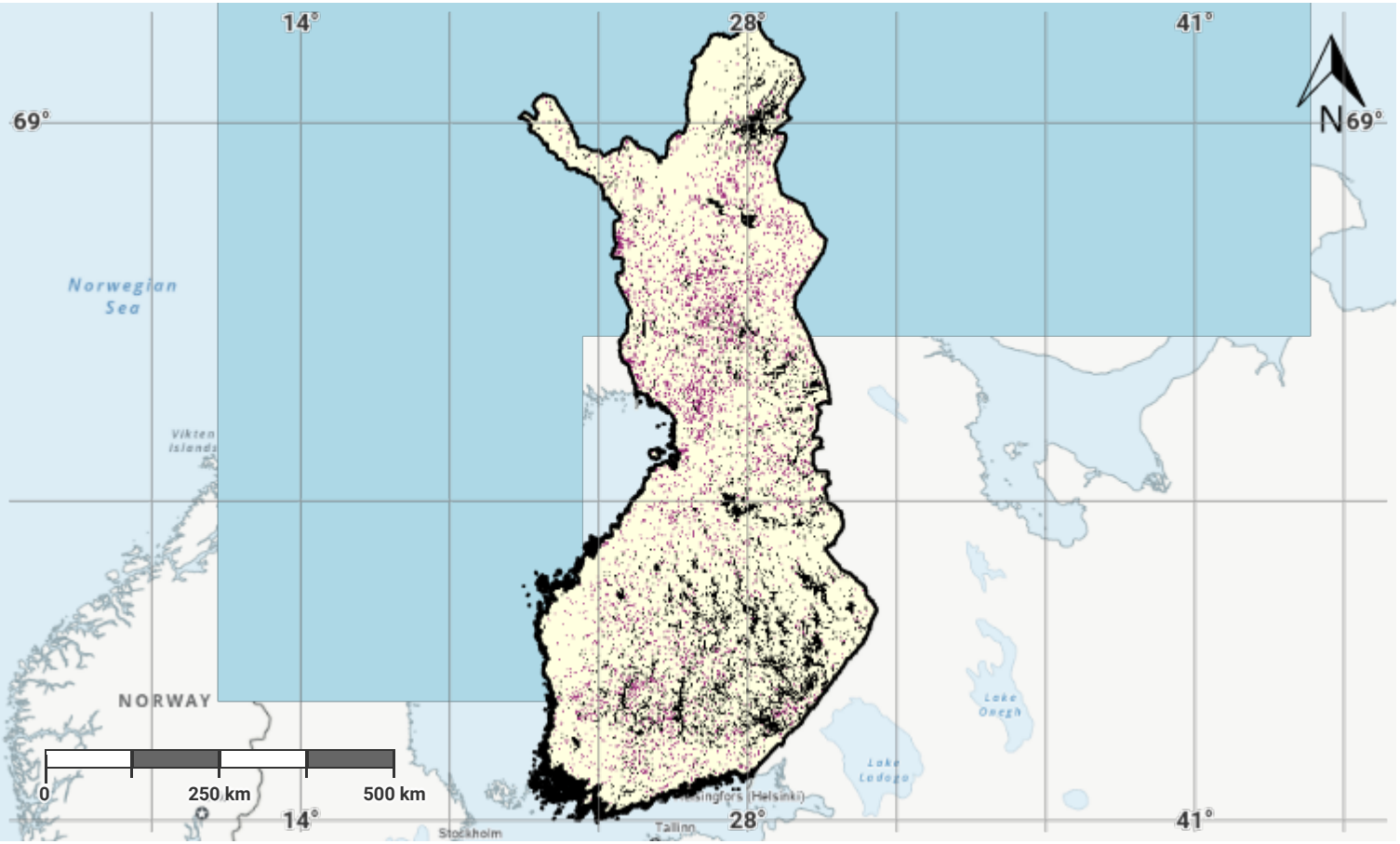
Finland – SO1-4.M1

Proportion of land that is degraded over total land area (SDG Indicator 15.3.1) in the baseline period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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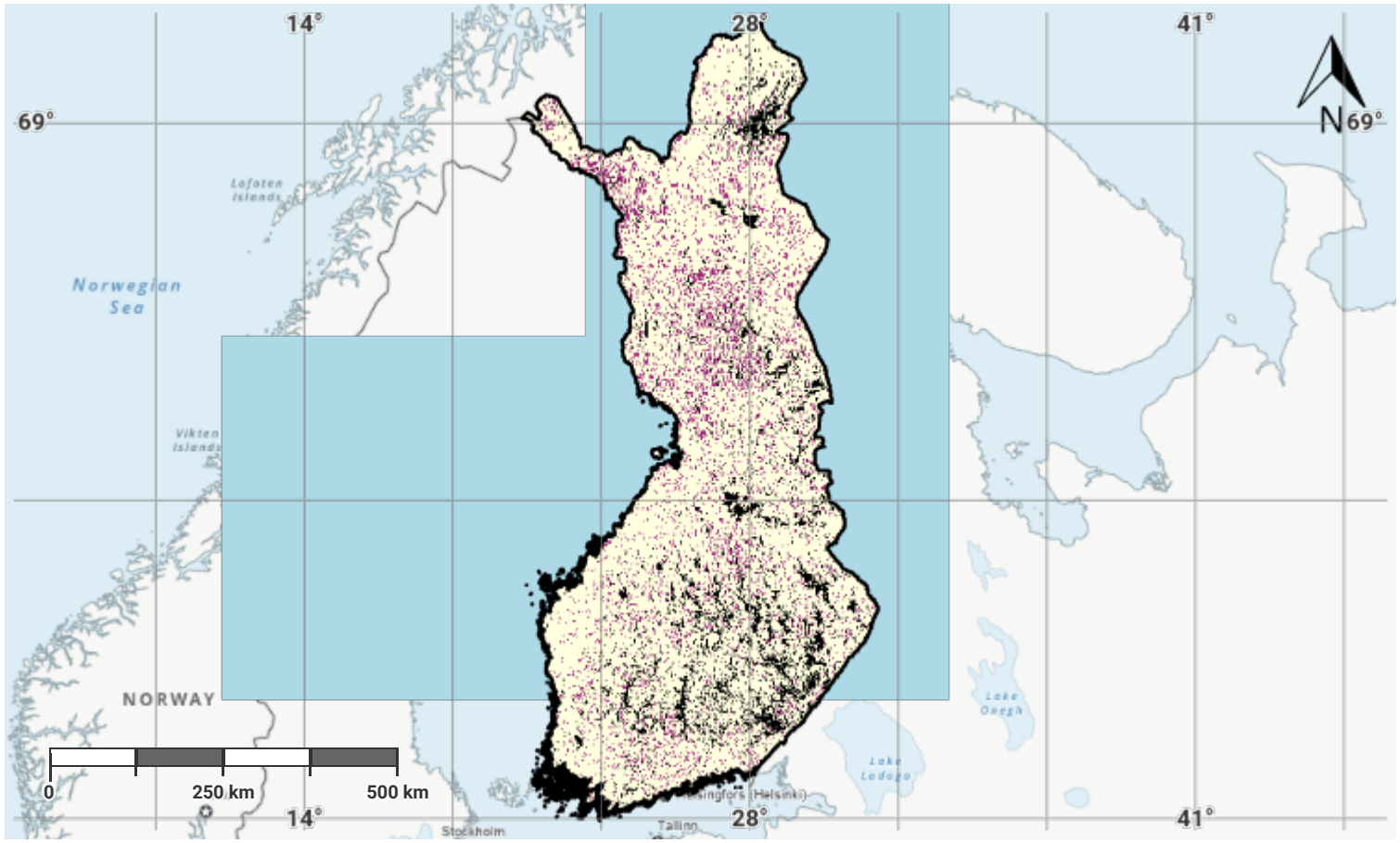
Source Data Credits

- United Nations Clear Map, United Nations Geospatial.
- Derived based on the methodology in the Good Practice Guidance Version 2 for Sustainable Development Goal (SDG) indicator 15.3.1 - Proportion of land that is degraded over total land area. URL: https://www.unccd.int/publications/good-practice-guidance-sdg-indicator-1531-proportion-land-degraded-over-total-land

Finland – SO1-4.M2

Proportion of land that is degraded over total land area (SDG Indicator 15.3.1) in the reporting period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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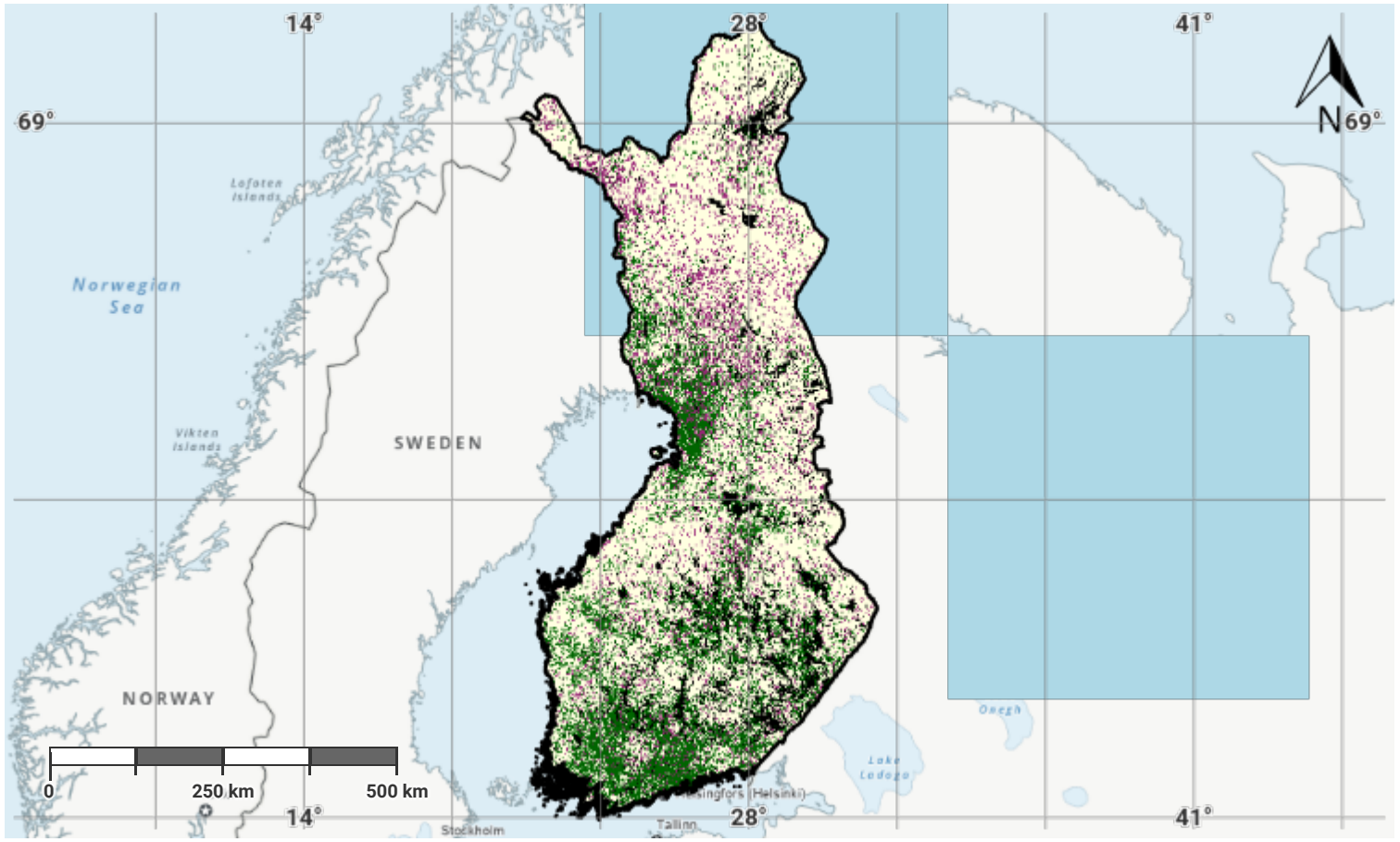
Finland – SO1-4.M3

Progress towards Land Degradation Neutrality (LDN) in the reporting period



Legend

- No data
- Degradation
- Stable
- Improvement
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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Finland – SO2-3.M1

Total Population exposed to land degradation (baseline)

Legend

- No data
- Population exposed to degradation (number of people, total): 0 - 700
- No land degradation
- Population not exposed to degradation (number of people, total): 0 - 700
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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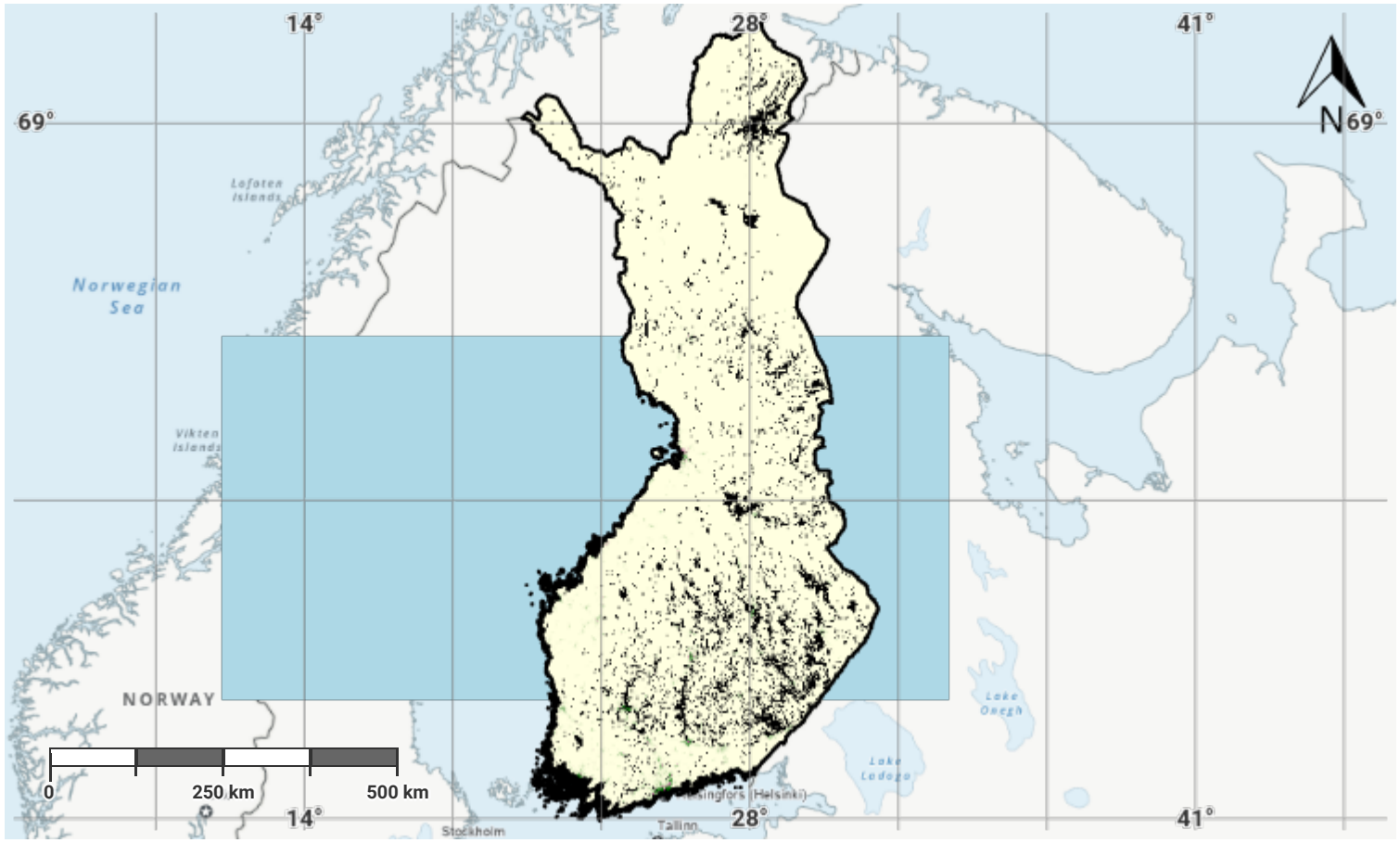
Source Data Credits

- United Nations Clear Map, United Nations Geospatial.
- WorldPop project URL: https://www.worldpop.org

Finland – SO2-3.M2

Female Population exposed to land degradation (baseline)



Legend

- No data
- Population exposed to degradation (number of people, female): 0 - 360
- No land degradation
- Population not exposed to degradation (number of people, female): 0 - 360
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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Source Data Credits

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- WorldPop project URL: https://www.worldpop.org

Finland – SO2-3.M3

Male Population exposed to land degradation (baseline)

Legend

- No data
- Population exposed to degradation (number of people, male): 0 - 340
- No land degradation
- Population not exposed to degradation (number of people, male): 0 - 340
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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Source Data Credits

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- WorldPop project URL: https://www.worldpop.org

Finland – SO2-3.M4

Total Population exposed to land degradation (reporting)

Legend

- No data
- Population exposed to degradation (number of people, total): 0 - 840
- No land degradation
- Population not exposed to degradation (number of people, total): 0 - 840
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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Source Data Credits

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- WorldPop project URL: https://www.worldpop.org

Finland – SO2-3.M5

Female Population exposed to land degradation (reporting)

Legend

- No data
- Population exposed to degradation (number of people, female): 0 - 440
- No land degradation
- Population not exposed to degradation (number of people, female): 0 - 440
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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Source Data Credits

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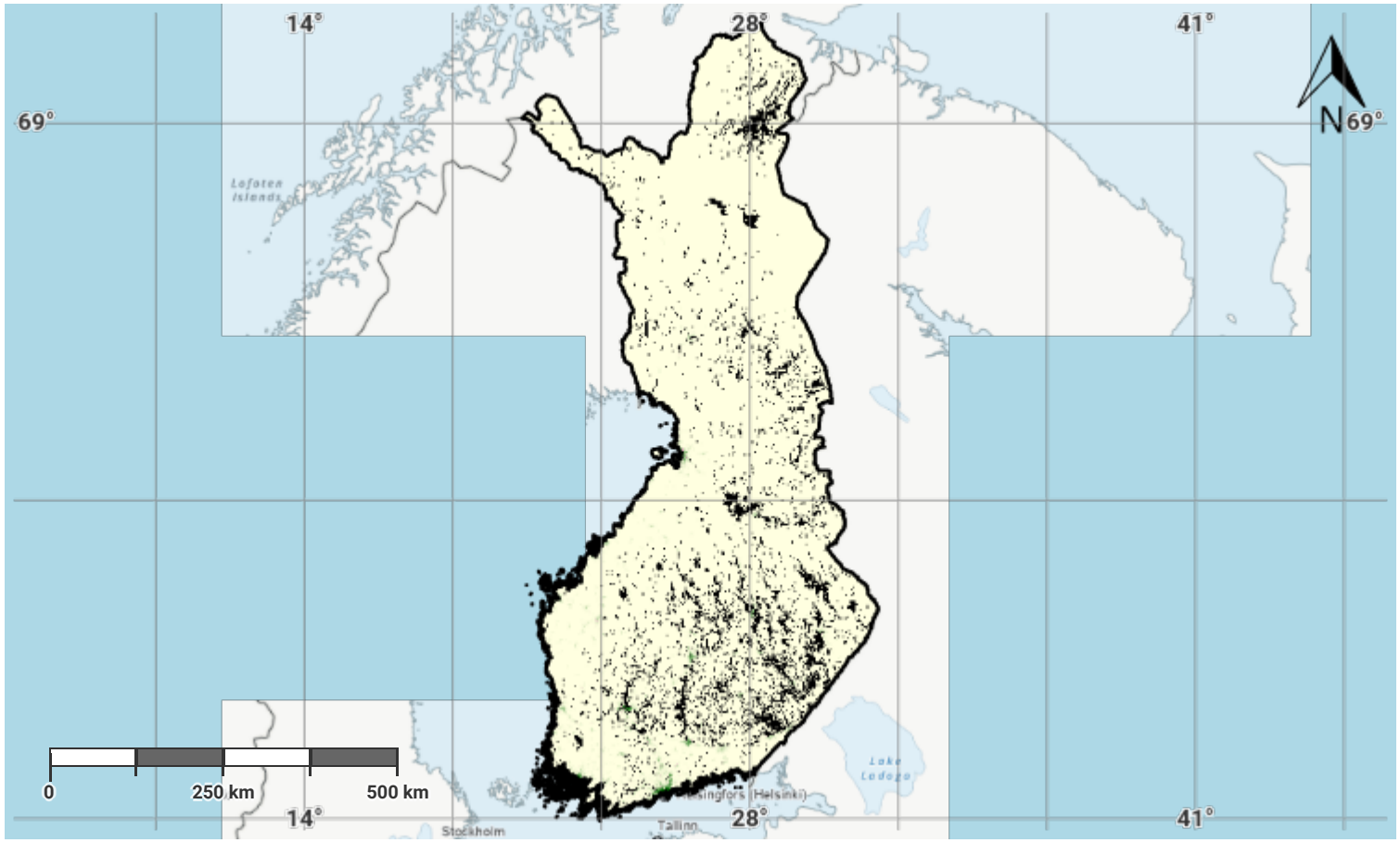
- WorldPop project URL: https://www.worldpop.org

Finland – SO2-3.M6

Male Population exposed to land degradation (reporting)



Legend

- No data
- Population exposed to degradation (number of people, male): 0 - 420
- No land degradation
- Population not exposed to degradation (number of people, male): 0 - 420
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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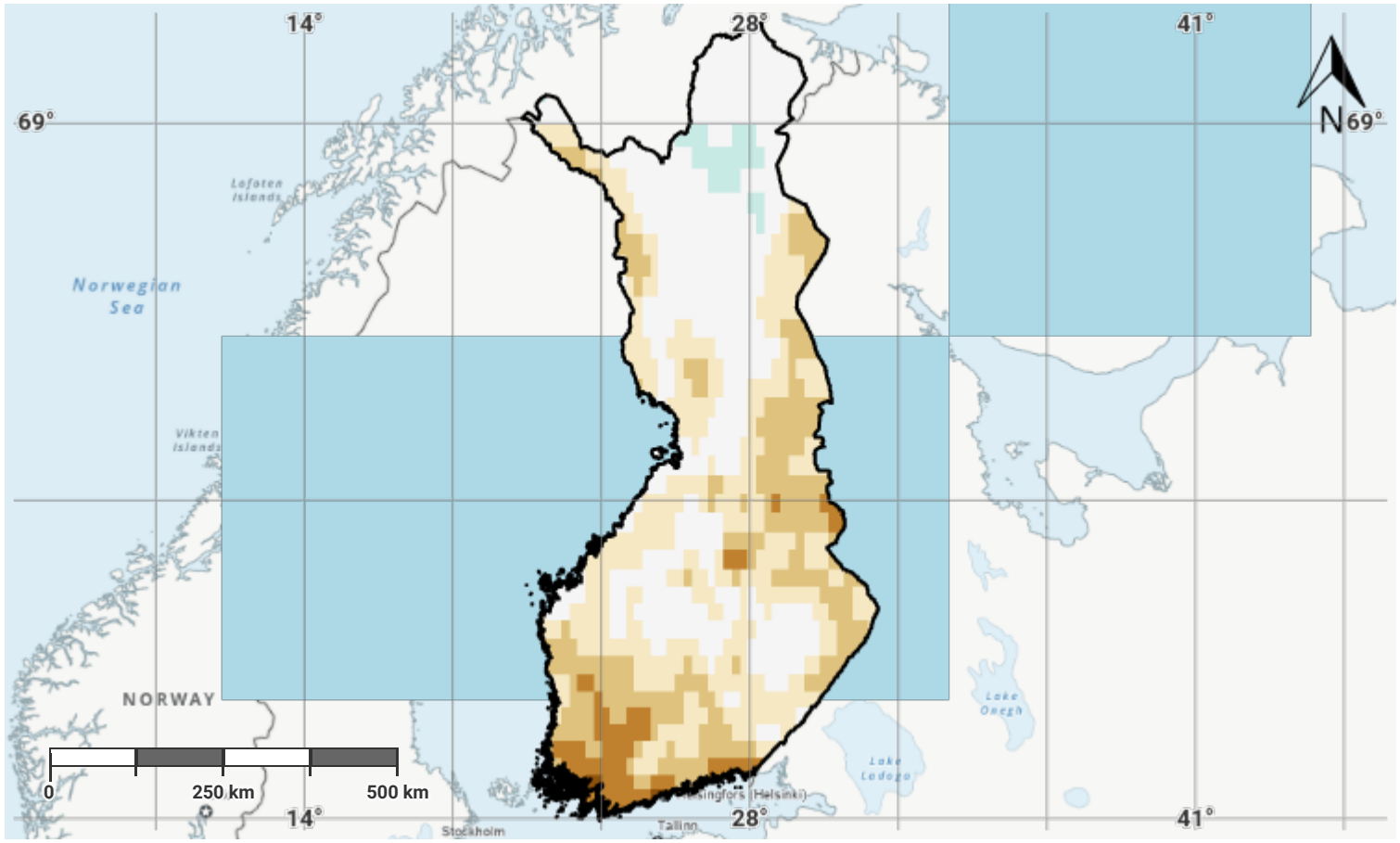
- WorldPop project URL: https://www.worldpop.org

Finland – SO3-1.M1

Drought hazard in first epoch of baseline period



Legend

- No data
- Extreme drought
- Severe drought
- Moderate drought
- Mild drought
- Normal
- Mildly wet
- Moderately wet
- Severely wet
- Extremely wet
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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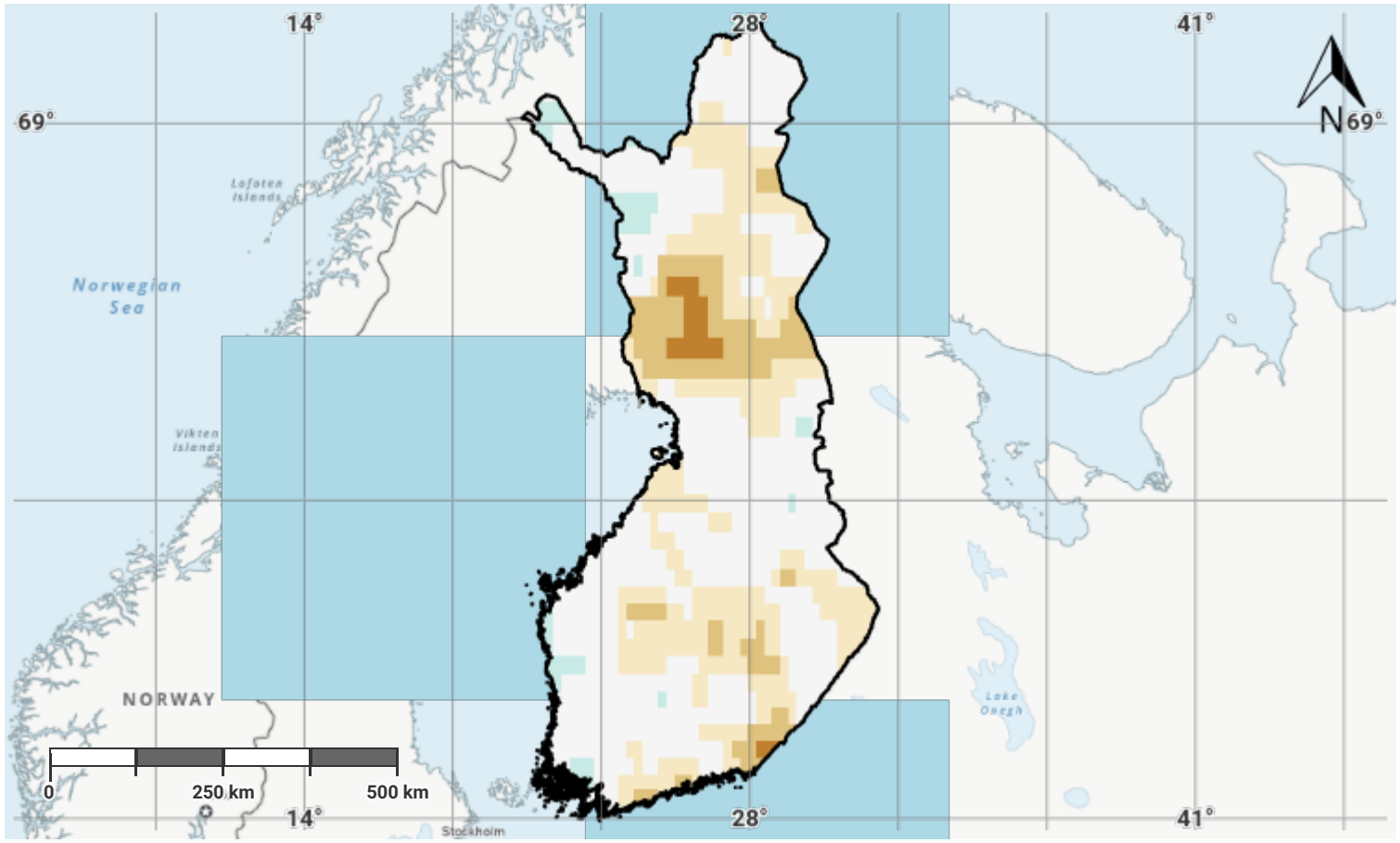
- Global Precipitation Climatology Centre (GPCC) monthly precipitation products,1982–present. URL: https://opendata.dwd.de/climate_environment/GPCC/html/gpcc_monitoring_v6_doi_download.html

Finland – SO3-1.M2

Drought hazard in second epoch of baseline period



Legend

- No data
- Extreme drought
- Severe drought
- Moderate drought
- Mild drought
- Normal
- Mildly wet
- Moderately wet
- Severely wet
- Extremely wet
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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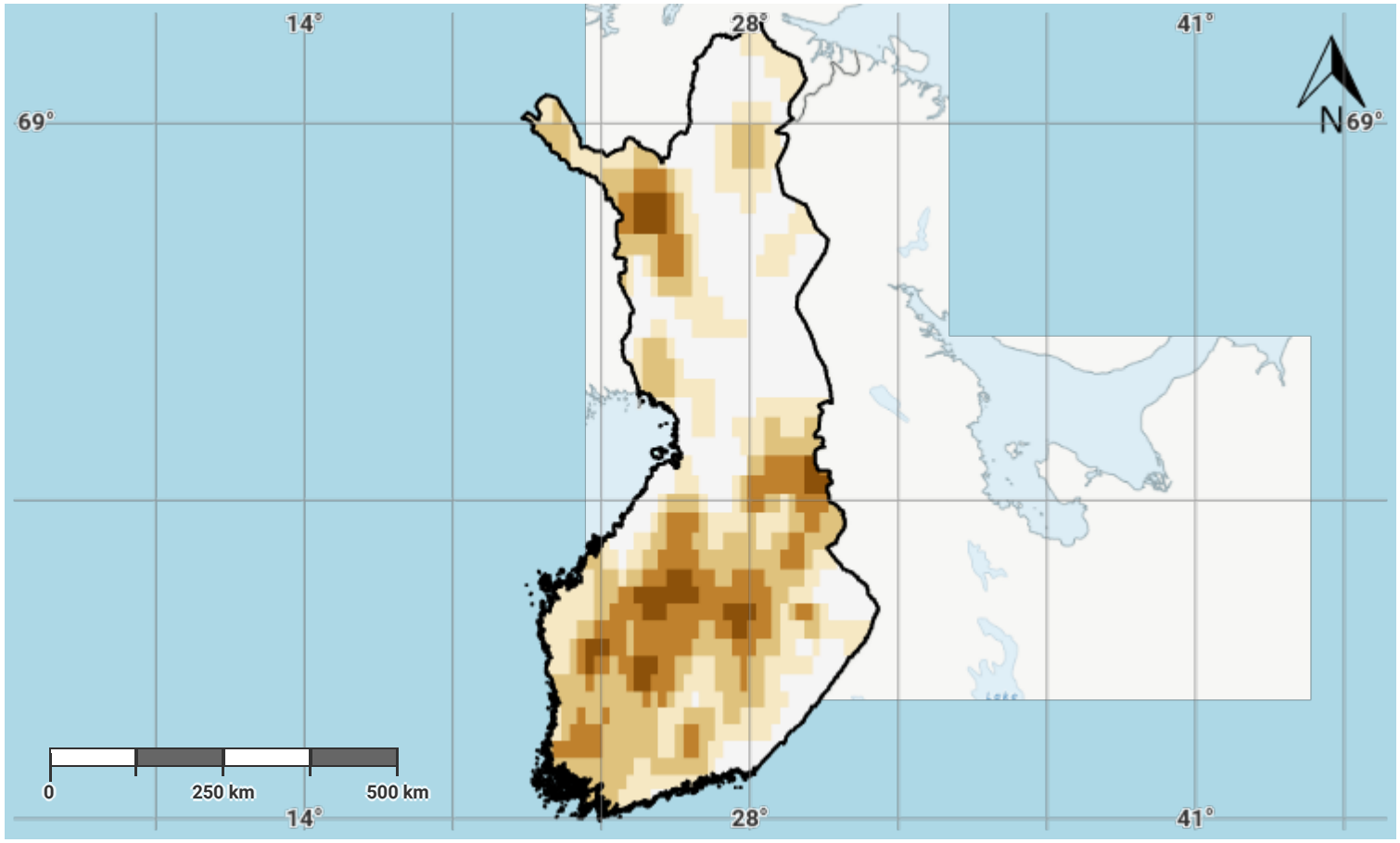
Finland – SO3-1.M3

Drought hazard in third epoch of baseline period



Legend

- No data
- Extreme drought
- Severe drought
- Moderate drought
- Mild drought
- Normal
- Mildly wet
- Moderately wet
- Severely wet
- Extremely wet
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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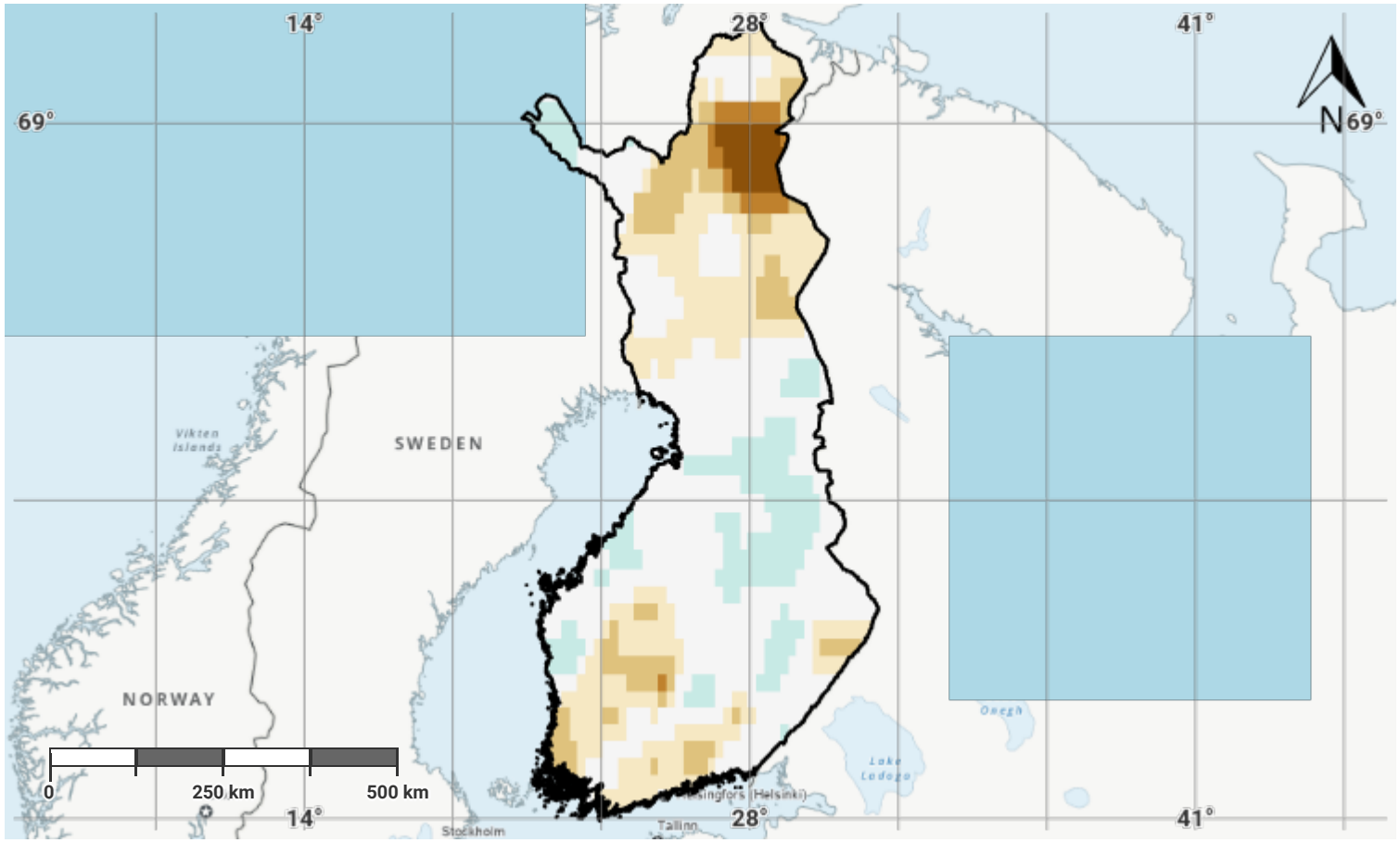
Finland – SO3-1.M4

Drought hazard in fourth epoch of baseline period



Projection: EPSG:3857 (Web Mercator)

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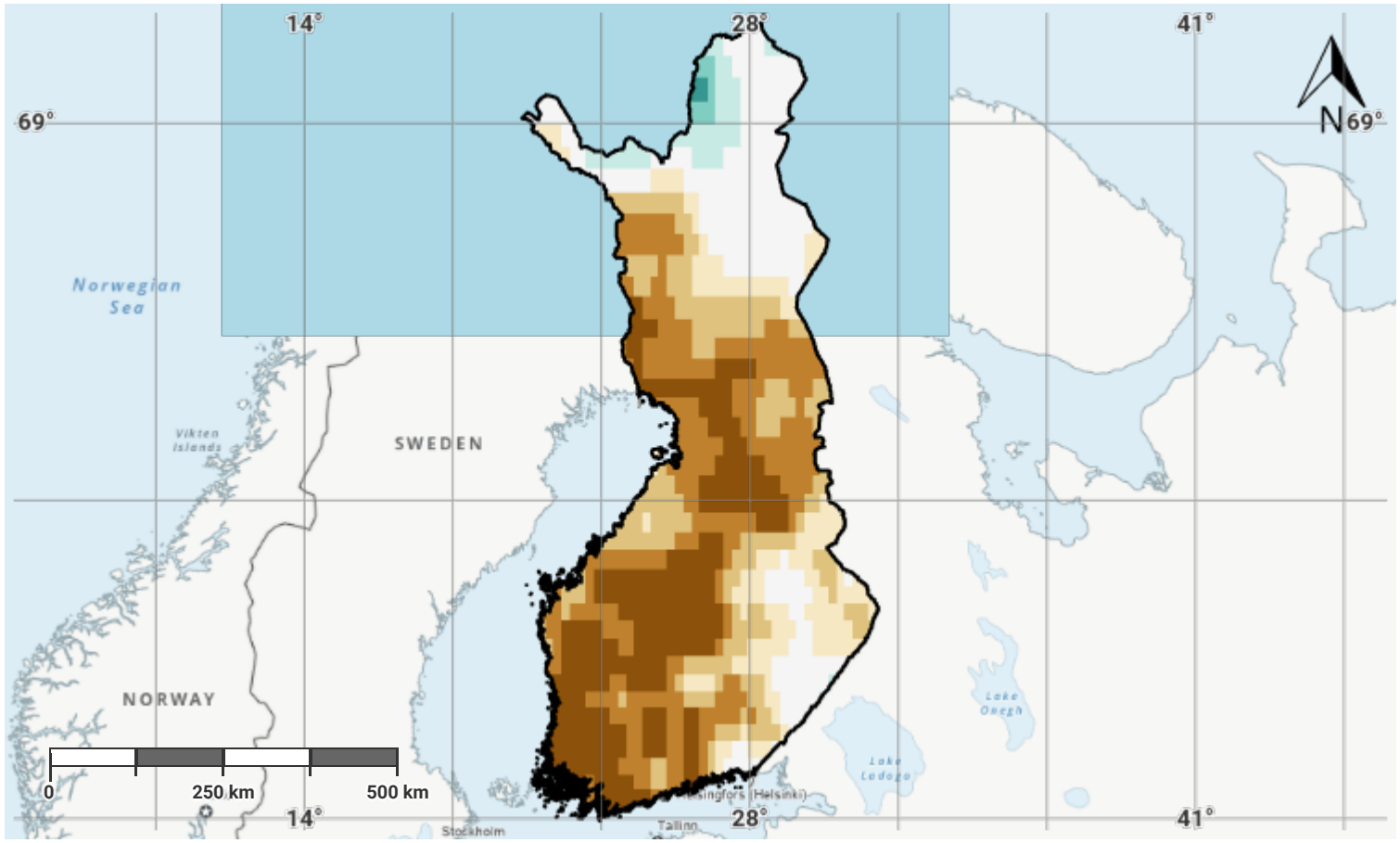
Finland – SO3-1.M5

Drought hazard in the reporting period



Legend

- No data
- Extreme drought
- Severe drought
- Moderate drought
- Mild drought
- Normal
- Mildly wet
- Moderately wet
- Severely wet
- Extremely wet
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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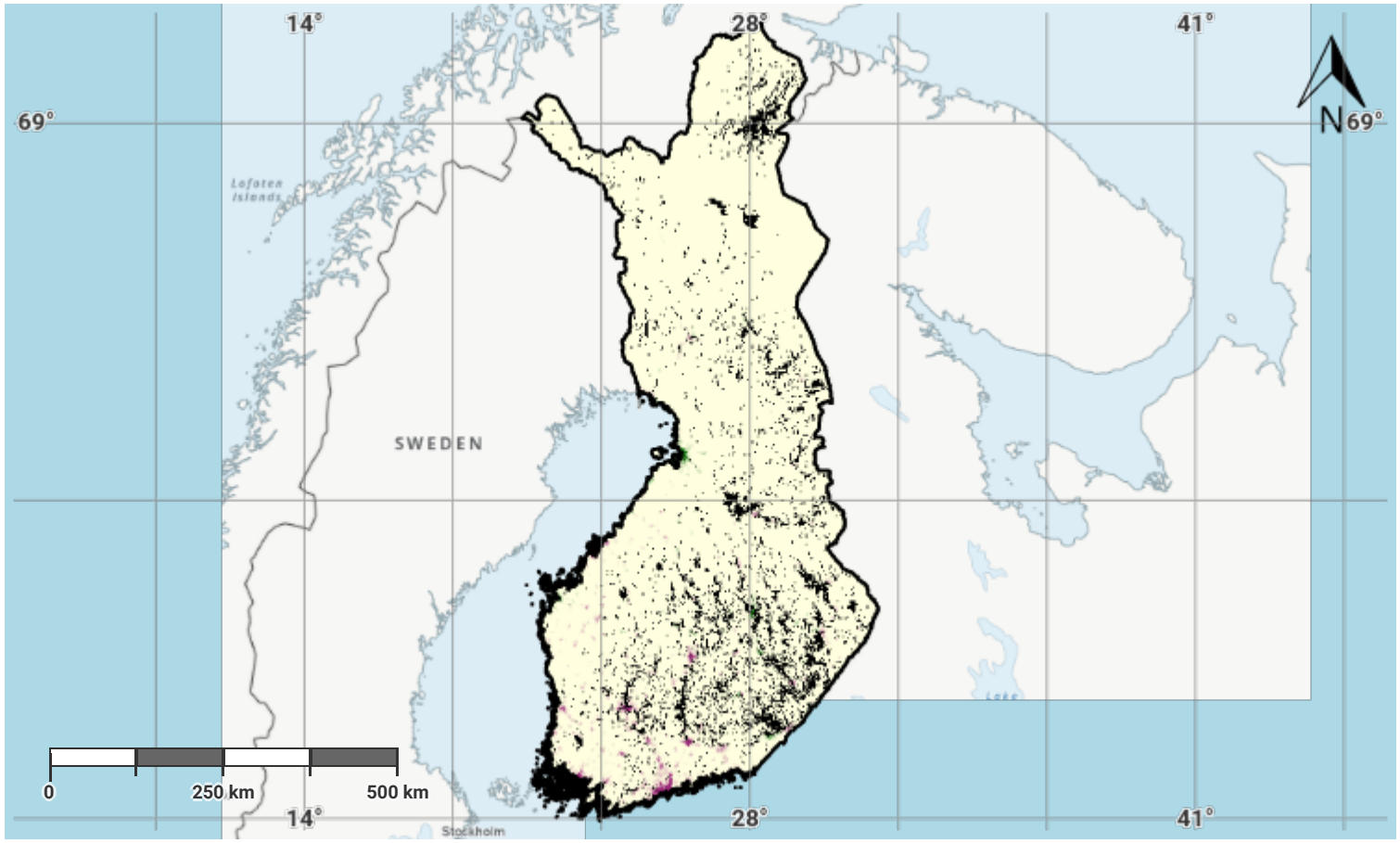
Finland – SO3-2.M1

Drought exposure in first epoch of baseline period



Legend

- No data
- Population exposed to drought (number of people, total): 0 - 310
- No drought
- Population not exposed to drought (number of people, total): 0 - 310
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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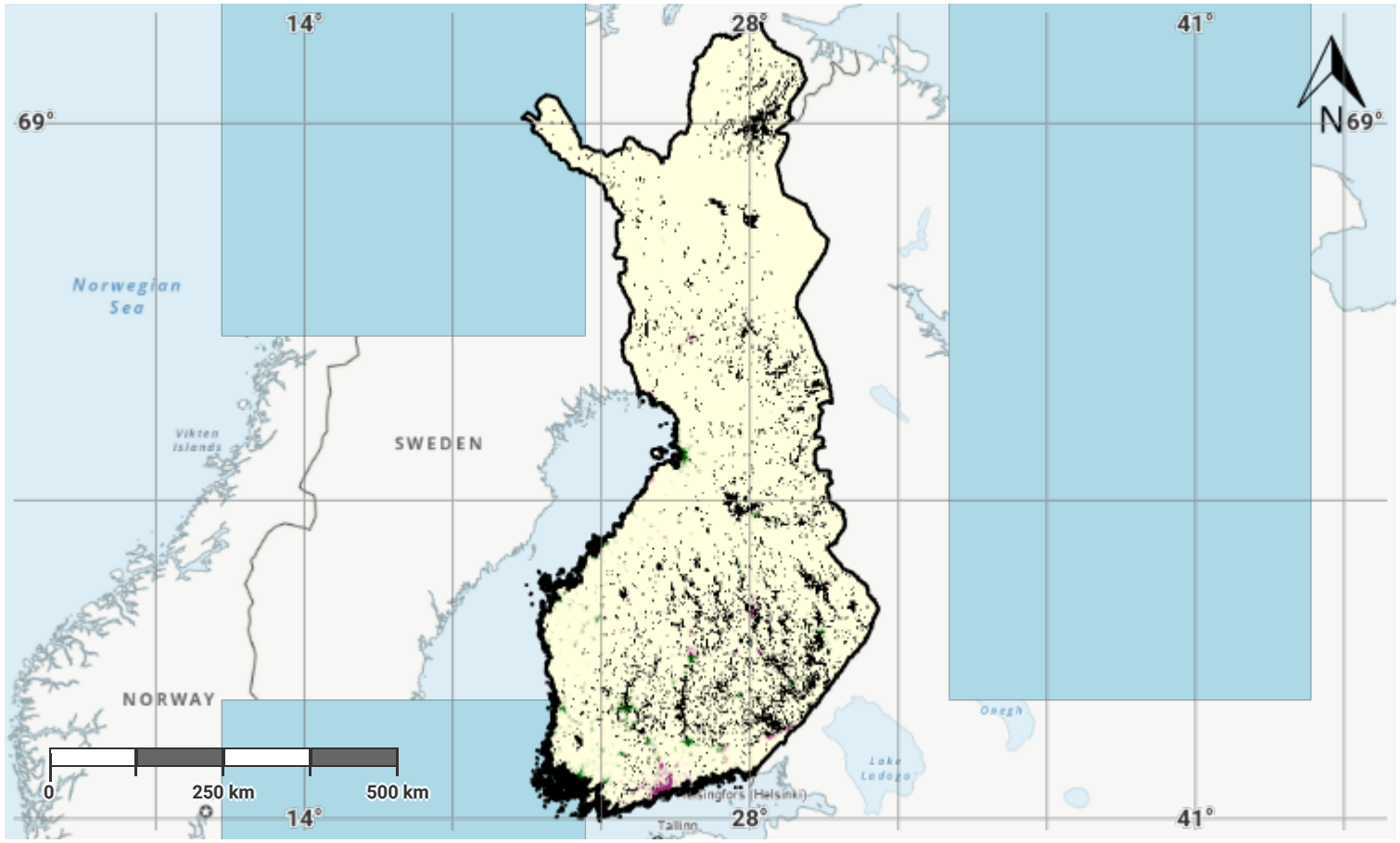
Finland – SO3-2.M2

Drought exposure in second epoch of baseline period



Legend

- No data
- Population exposed to drought (number of people, total): 0 - 240
- No drought
- Population not exposed to drought (number of people, total): 0 - 240
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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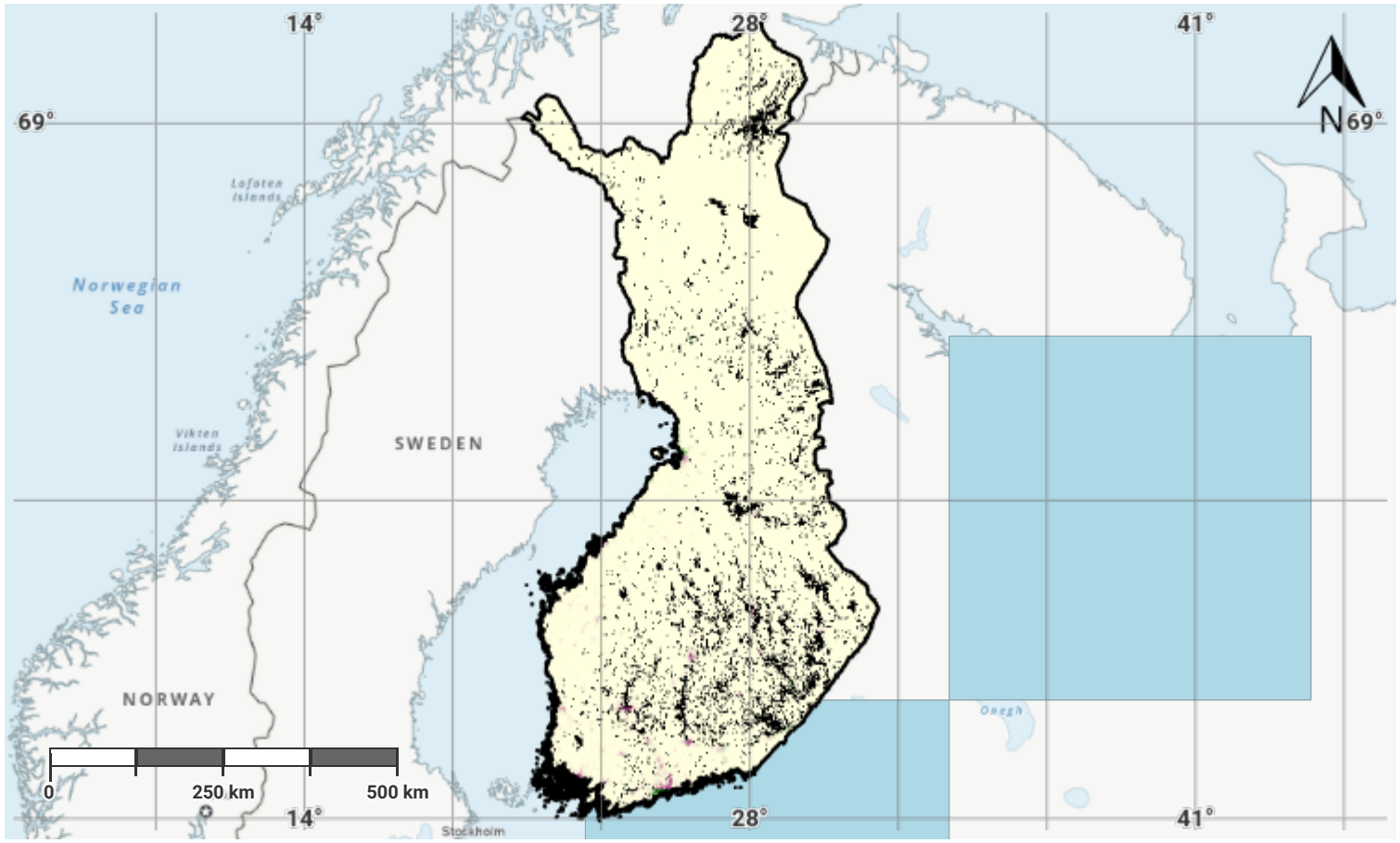
Finland – SO3-2.M3

Drought exposure in third epoch of baseline period



Legend

- No data
- Population exposed to drought (number of people, total): 0 - 620
- No drought
- Population not exposed to drought (number of people, total): 0 - 620
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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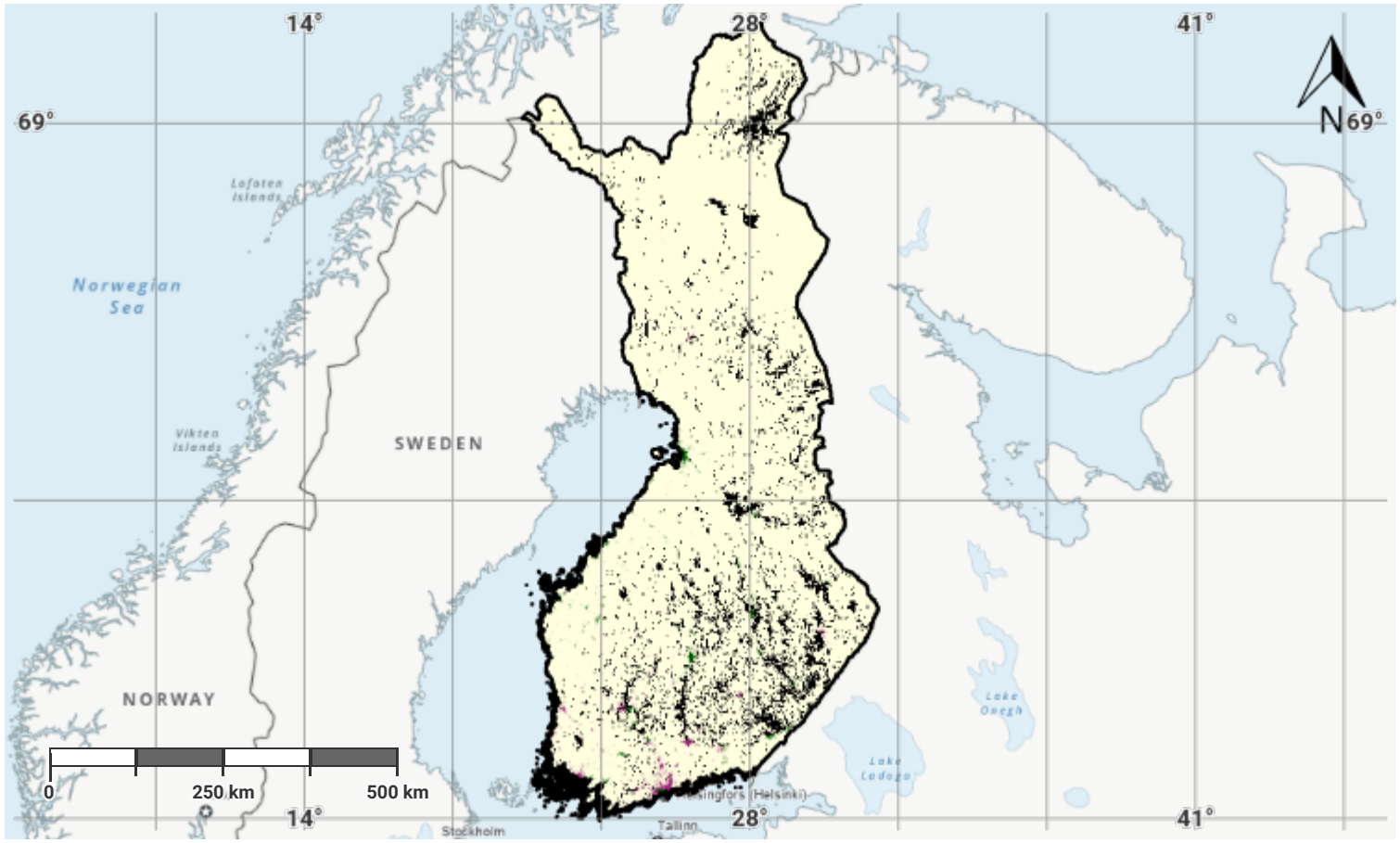
Finland – SO3-2.M4

Drought exposure in fourth epoch of baseline period



Legend

- No data
- Population exposed to drought (number of people, total): 0 - 300
- No drought
- Population not exposed to drought (number of people, total): 0 - 300
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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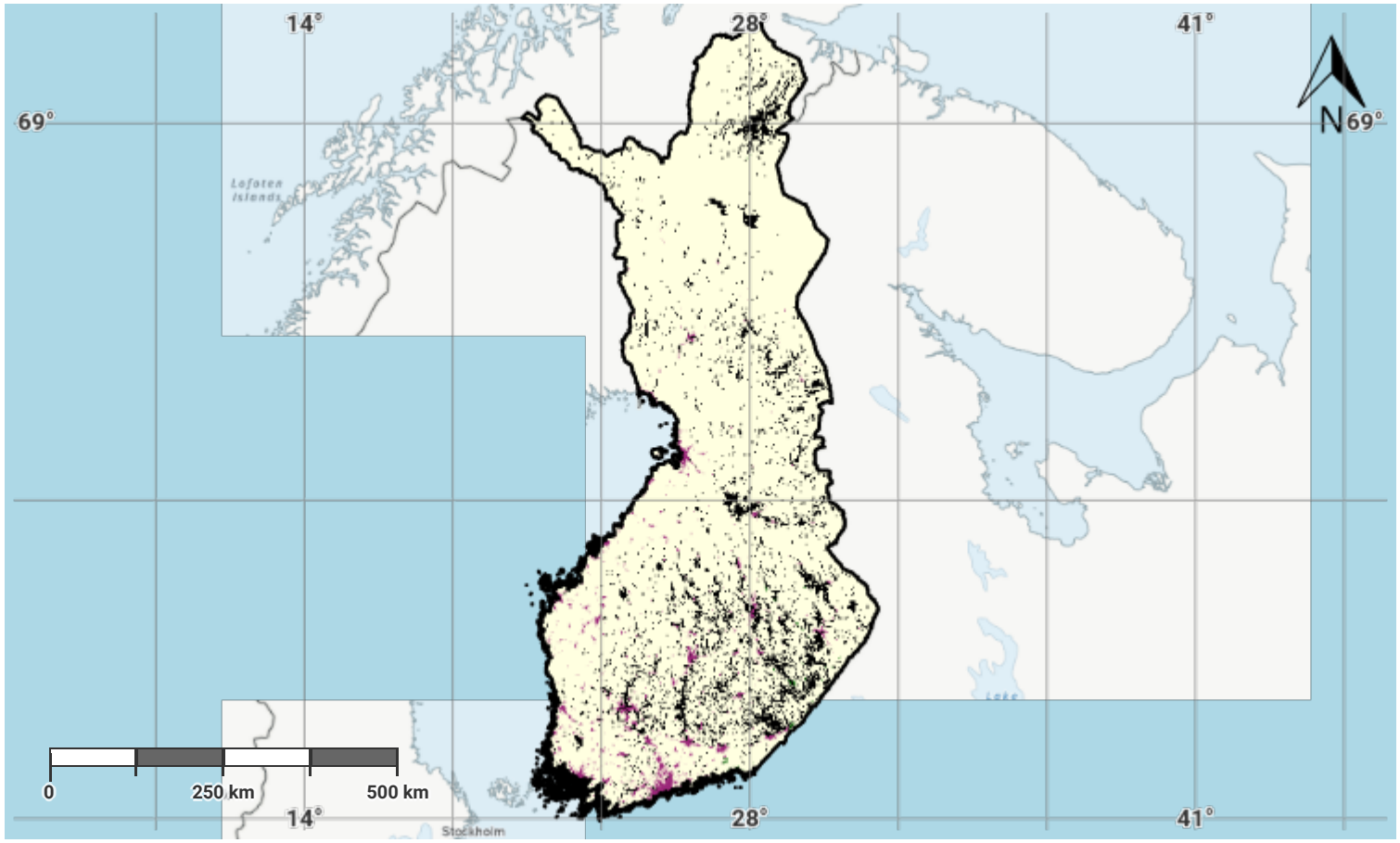
Finland – SO3-2.M5

Drought exposure in the reporting period



Legend

- No data
- Population exposed to drought (number of people, total): 0 - 100
- No drought
- Population not exposed to drought (number of people, total): 0 - 100
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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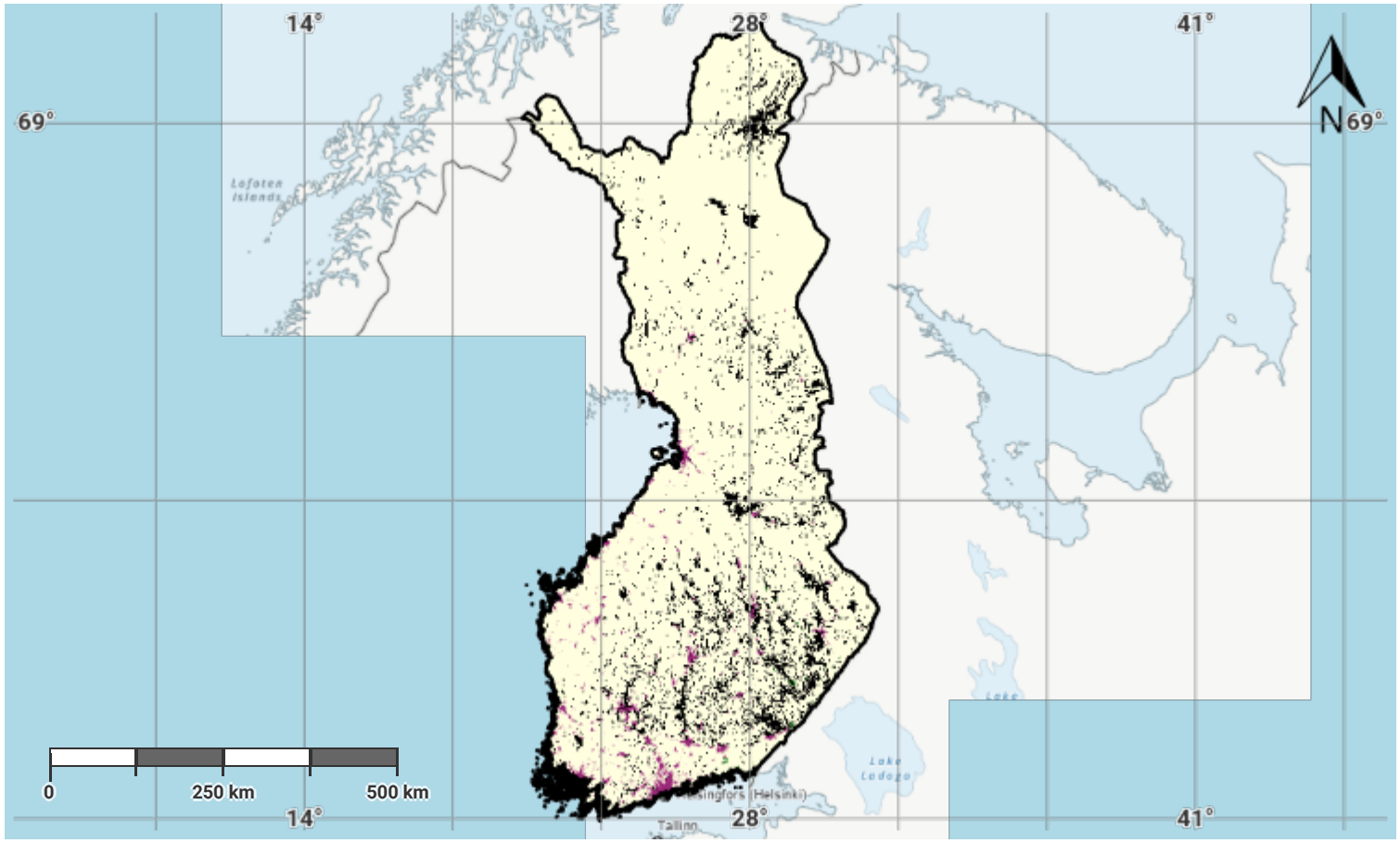
Finland – SO3-2.M6

Female drought exposure in the reporting period



Legend

- No data
- Population exposed to drought (number of people, female): 0 - 50
- No drought
- Population not exposed to drought (number of people, female): 0 - 50
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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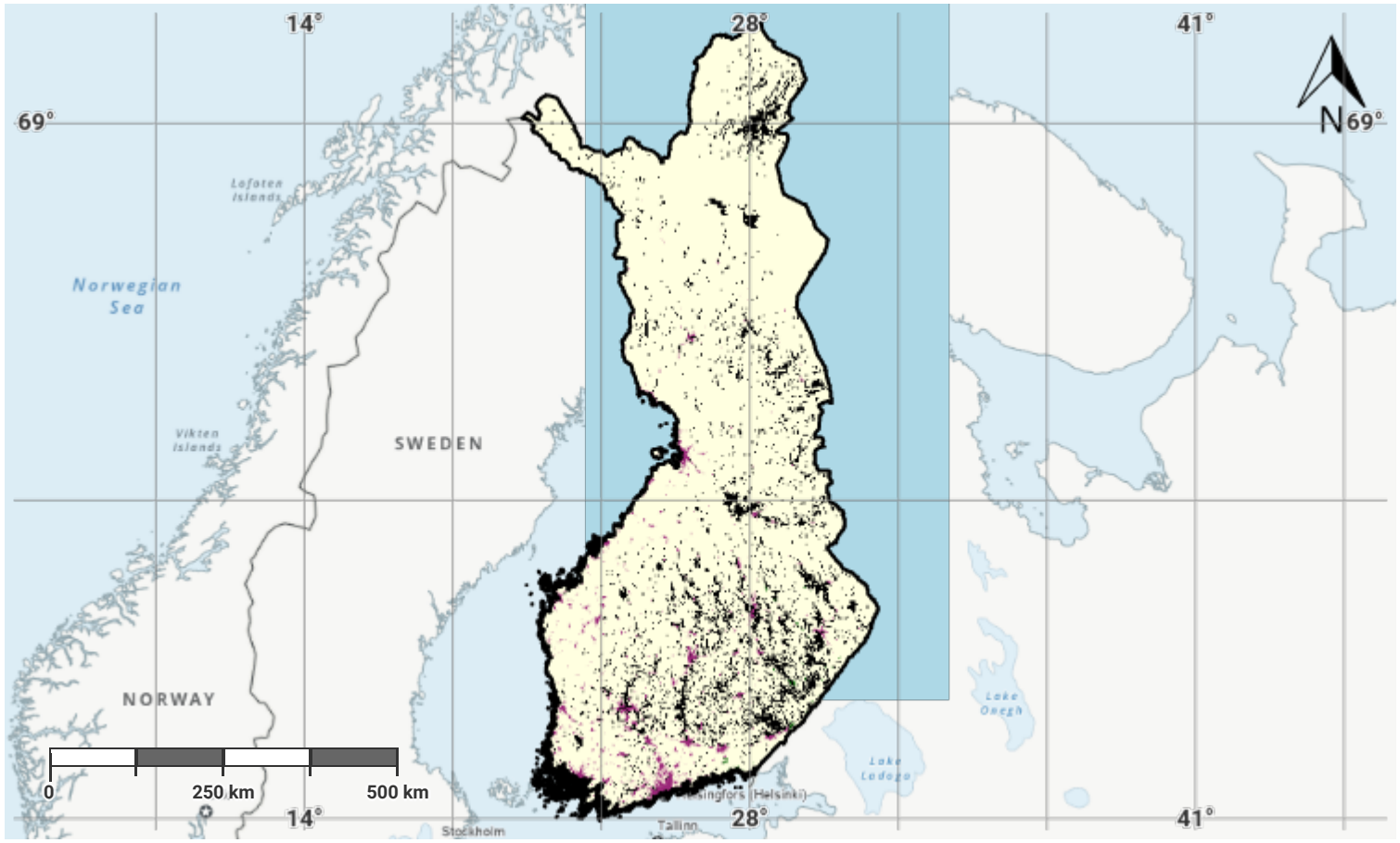
Finland – SO3-2.M7

Male drought exposure in the reporting period



Legend

- No data
- Population exposed to drought (number of people, male): 0 - 50
- No drought
- Population not exposed to drought (number of people, male): 0 - 50
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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