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

Report from Antigua and Barbuda

United Nations
Convention to Combat Desertification

prais4

prais4

17 February 2023

Contents

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
2 003	367	84	451	
2 003	367	84	451	
2 005	368	83	451	
2 010	368	83	451	
2 015	368	83	451	
2 016	368	83	451	
2 019	368	83	451	

Land cover legend and transition matrix

SO1-1.T2: Key Degradation Processes

Degradation Process	Starting Land Cover	Ending Land Cover

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

- (●) Yes
- ( ) No

SO1-1.T4: UNCCD land cover legend transition matrix

Original/ Final	Tree-covered areas	Grasslands	Croplands	Wetlands	Artificial surfaces	Other Lands	Water bodies
Tree-covered areas	0	-	-	-	-	-	0
Grasslands	+	0	+	-	-	-	0
Croplands	+	-	0	-	-	-	0
Wetlands	-	-	-	0	-	-	0
Artificial surfaces	+	+	+	+	0	+	0
Other Lands	+	+	+	+	-	0	0
Water bodies	0	0	0	0	0	0	0

Land cover

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

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	No data (km²)
2000	0	0	0	0	0	0	0	
2001	0	0	0	0	0	0	0	
2002	0	0	0	0	0	0	0	
2003	181	132	12	33	8	0	85	
2004	184	132	12	33	8	0	83	
2005	184	132	12	33	8	0	83	

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	No data (km²)
2006	184	131	11	33	8	0	83	
2007	184	131	11	33	8	0	83	
2008	186	130	11	32	9	0	83	
2009	188	129	11	30	9	0	83	
2010	188	128	11	30	9	0	83	
2011	188	128	11	30	10	0	83	
2012	188	128	11	30	10	0	83	
2013	188	128	11	30	11	0	83	
2014	171	144	11	30	11	0	83	
2015	171	144	11	30	11	0	83	
2016	171	144	11	30	11	0	83	
2017	171	144	11	30	11	0	83	
2018	166	147	12	31	11	0	83	
2019	166	147	12	31	11	0	83	
2020	0	0	0	0	0	0	0	

Land cover change

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

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	Total (km²)
Tree-covered areas (km²)	164	17	0	0	0	0	0	181
Grasslands (km²)	3	127	0	0	3	0	0	133
Croplands (km²)	0	0	11	0	1	0	0	12
Wetlands (km²)	3	0	0	30	0	0	0	33
Artificial surfaces (km²)	0	0	0	0	8	0	0	8
Other Lands (km²)	0	0	0	0	0	0	0	0
Water bodies (km²)	1	0	0	1	0	0	83	85
Total	171	144	11	31	12	0	83	

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

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	Total land area (km²)
Tree-covered areas (km²)	166	3	1	1	0	0	0	171
Total	166	147	12	31	11	0	83	

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	Total land area (km²)
Grasslands (km²)	0	144	0	0	0	0	0	144
Croplands (km²)	0	0	11	0	0	0	0	11
Wetlands (km²)	0	0	0	30	0	0	0	30
Artificial surfaces (km²)	0	0	0	0	11	0	0	11
Other Lands (km²)	0	0	0	0	0	0	0	0
Water bodies (km²)	0	0	0	0	0	0	83	83
Total	166	147	12	31	11	0	83	

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	24	5 .3
Land area with non-degraded land cover	425	94 .2
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	0	0 .0
Land area with stable land cover	446	98 .9
Land area with degraded land cover	4	0 .9
Land area with no land cover data	0	0 .0

General comments

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	10	72	0	76	3	2
Grasslands	13	61	0	51	1	1
Croplands	0	3	0	6	1	0
Wetlands	1	6	1	12	5	5
Artificial surfaces	1	3	0	3	0	0
Other Lands	0	0	0	0	0	0
Water bodies	1	3	1	6	1	72

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	4	0	0	158	2	2
Grasslands	4	0	0	137	1	1
Croplands	0	0	0	11	0	0
Wetlands	1	0	2	21	0	6
Artificial surfaces	1	0	0	10	0	0
Other Lands	0	0	0	0	0	0
Water bodies	0	0	1	10	0	72

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)
Tree-covered areas	Grasslands	17	2	8	0	7	0
Grasslands	Tree-covered areas	3	0	2	0	1	0
Grasslands	Artificial surfaces	3	1	1	0	1	0
Wetlands	Tree-covered areas	3	0	2	0	1	0

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	Grasslands	3	0	0	0	3	0
Tree-covered areas	Croplands	1	0	0	0	1	0
Tree-covered areas	Wetlands	1	0	0	0	1	0
Tree-covered areas	Artificial surfaces	0	0	0	0	0	0

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	188	51 .1
Land area with non-degraded land productivity	169	45 .9
Land area with no land productivity data	8	2 .2

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	3	0 .8
Land area with stable land productivity	345	93 .8
Land area with degraded land productivity	9	2 .4
Land area with no land productivity data	9	2 .4

General comments

With the analysis ran through Trends.Earth and reflected in the LDN TSP for the baseline period (2003-2015), degraded Land productivity was at 2.3% of the total land area. Stable productivity was at 32.2% whereas increased productivity was at 62.7%. No Data can be assumed for the remaining 2.8% of the total land area.

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	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0
2003	137	109	147	159	116	0	20
2004	137	109	147	158	116	0	17
2005	137	109	147	158	116	0	17
2006	137	109	147	158	116	0	17
2007	137	109	147	158	116	0	17
2008	137	109	148	157	116	0	17
2009	138	108	148	155	114	0	17
2010	138	108	148	155	113	0	17
2011	138	108	148	155	111	0	17
2012	138	108	148	155	110	0	17
2013	138	108	148	155	110	0	17
2014	142	107	146	155	109	0	17
2015	142	107	146	155	107	0	17
2016	142	107	146	155	105	0	17
2017	142	107	146	155	103	0	17
2018	143	107	147	155	102	0	17
2019	143	107	147	155	100	0	17
2020	0	0	0	0	0	0	0

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)
Tree-covered areas	Grasslands	17	90 .3	91 .6	153 479	155 769	2 290

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)
Grasslands	Tree-covered areas	3	129 .3	129 .3	38 799	38 799	0
Wetlands	Tree-covered areas	3	202 .2	202 .2	60 652	60 652	0
Grasslands	Artificial surfaces	3	117 .2	87 .9	35 153	26 379	-8 774

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	Grasslands	3	134 .6	134 .6	40 392	40 392	0
Tree-covered areas	Wetlands	1	91 .4	91 .4	9 140	9 140	0
Tree-covered areas	Artificial surfaces	0	-	-	0	0	0
Tree-covered areas	Croplands	1	129 .3	126 .2	12 925	12 617	-308

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)	2	0 .5
Land area with non-degraded SOC	361	98 .1
Land area with no SOC data	1	0 .3

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	0	0 .0
Land area with stable SOC	361	98 .1
Land area with degraded SOC	3	0 .8
Land area with no SOC data	2	0 .5

General comments

Comparing the baseline data produced in this cycling using Trends.Earth against that produced in the LDN TSP process, some slightly different figures can be seen. In that report, 0.84% was degraded and 97.13% of the total land area had no degradation.

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	36	9 .8
Reporting Period	38	10 .3
Change in degraded extent	2	

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:

Low level of confidence was selected as global data was utilized to come to this finding. Global data are usually at a larger resolution that does not accurately depicts what happens in small island states. A deeper analysis was done utilizing Open Foris Collect tool during the baseline period as a result of the resolution of the global dataset in the version of Trends.Earth during that time. During the LDN TSP, 9.7% was recorded according to the Country Report in 2019 for the baseline period 2003-2015. This is further broken down as follows; Land Cover Change --- 4.8% (22.96 sq.km) Land Productivity --- 2.3% (6.48 sq.km) Soil Organic Carbon --- 2.6% Accumulating to a total of approximately 9.7% degradation during the baseline period.

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
Total no. of hotspots	0						

SO-1: To improve the condition of affected ecosystems, combat desertification/land degradation, promote sustainable land management and contribute to land degradation neutrality.

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
Total hotspot area	0						

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

1.
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
Total no. of brightpots		0				
Total brightspot area		0				

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

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.

General comments

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) Sum of all areas relevant to actions under the same target	Edit Polygon

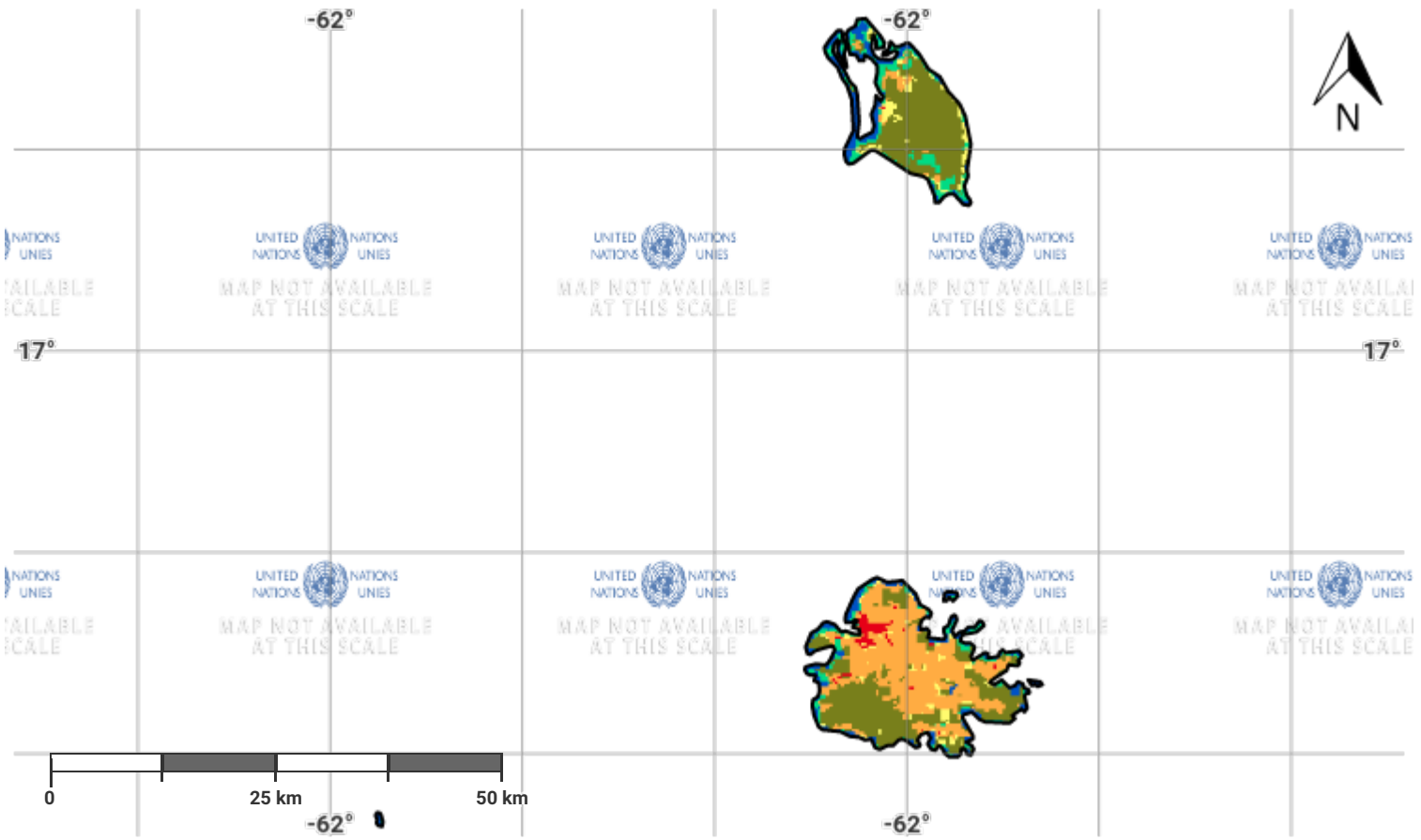
General comments

Other files for Reporting

Antigua and Barbuda - SO5-1 recipient	Download	8.7 KB

Antigua and Barbuda – 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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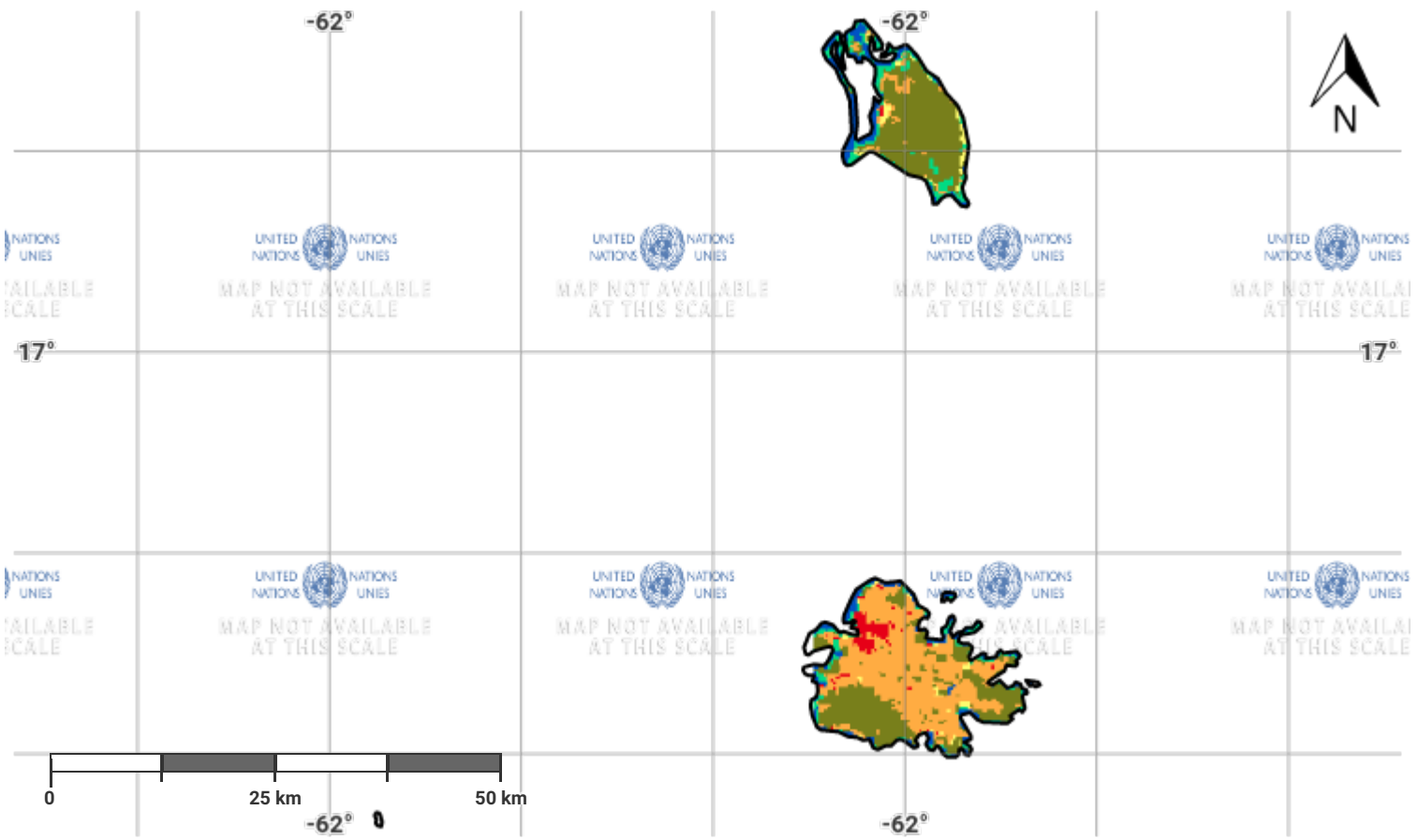
Source Data Credits

- United Nations Clear Map, United Nations Geospatial.
- European Space Agency Climate Change Initiative Land Cover (ESA CCI-LC) product, 1992-2019. URL: https://www.esa-landcover-cci.org/

Antigua and Barbuda – SO1-1.M2

Land cover in the baseline year



Legend

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

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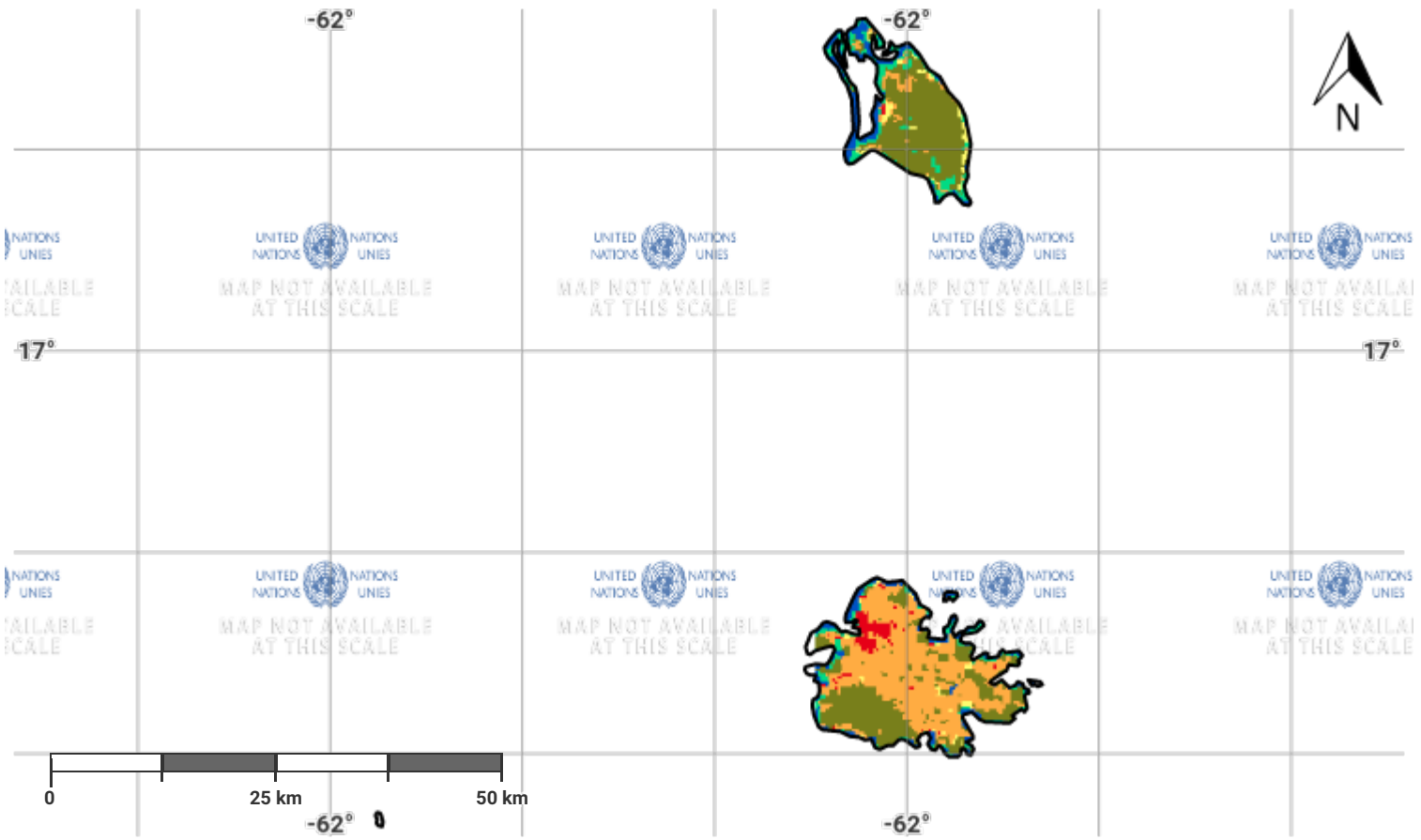
Antigua and Barbuda – SO1-1.M3

Land cover in the latest reporting 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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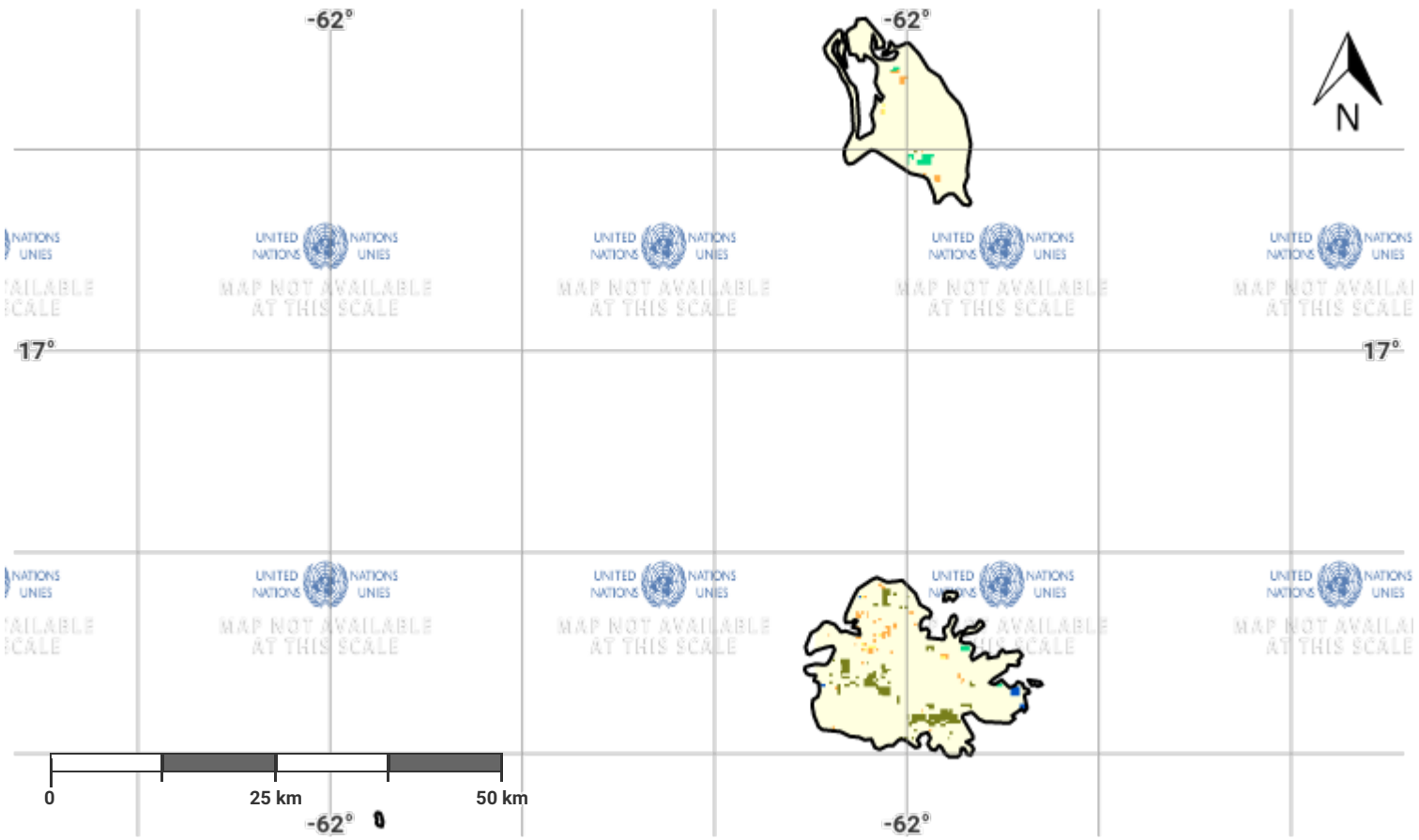
Antigua and Barbuda – SO1-1.M4

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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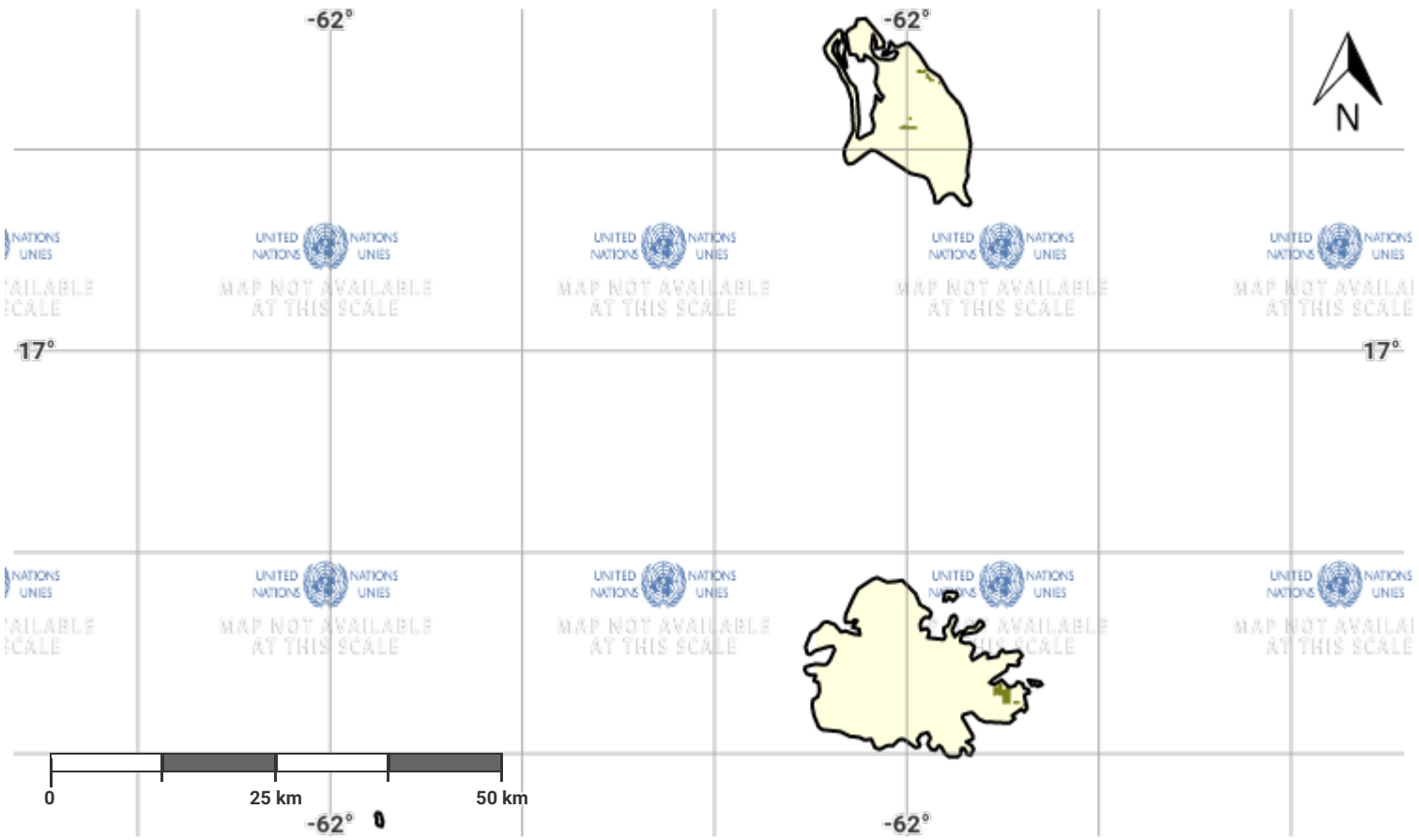
Antigua and Barbuda – SO1-1.M5

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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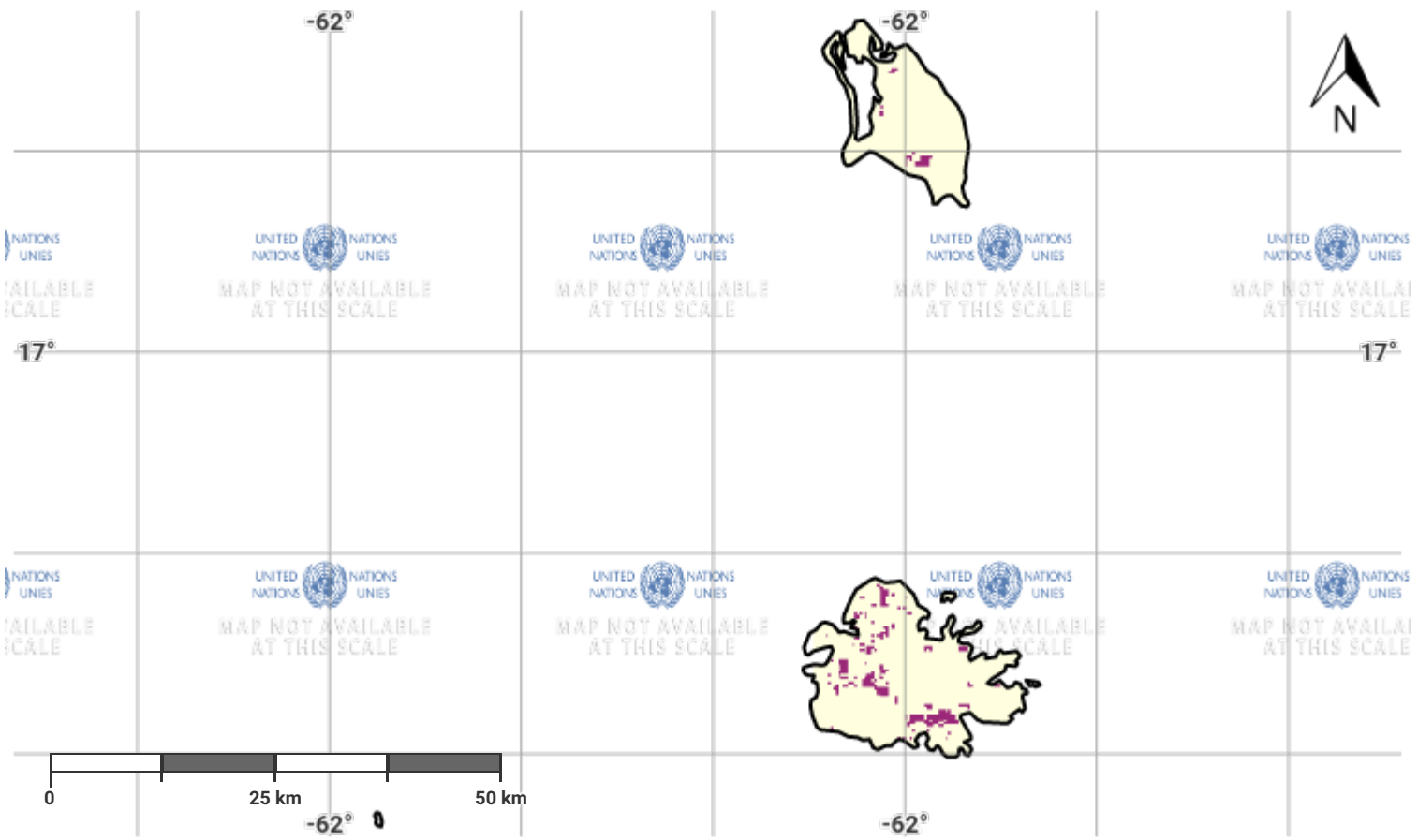
Antigua and Barbuda – SO1-1.M6

Land cover degradation in the baseline period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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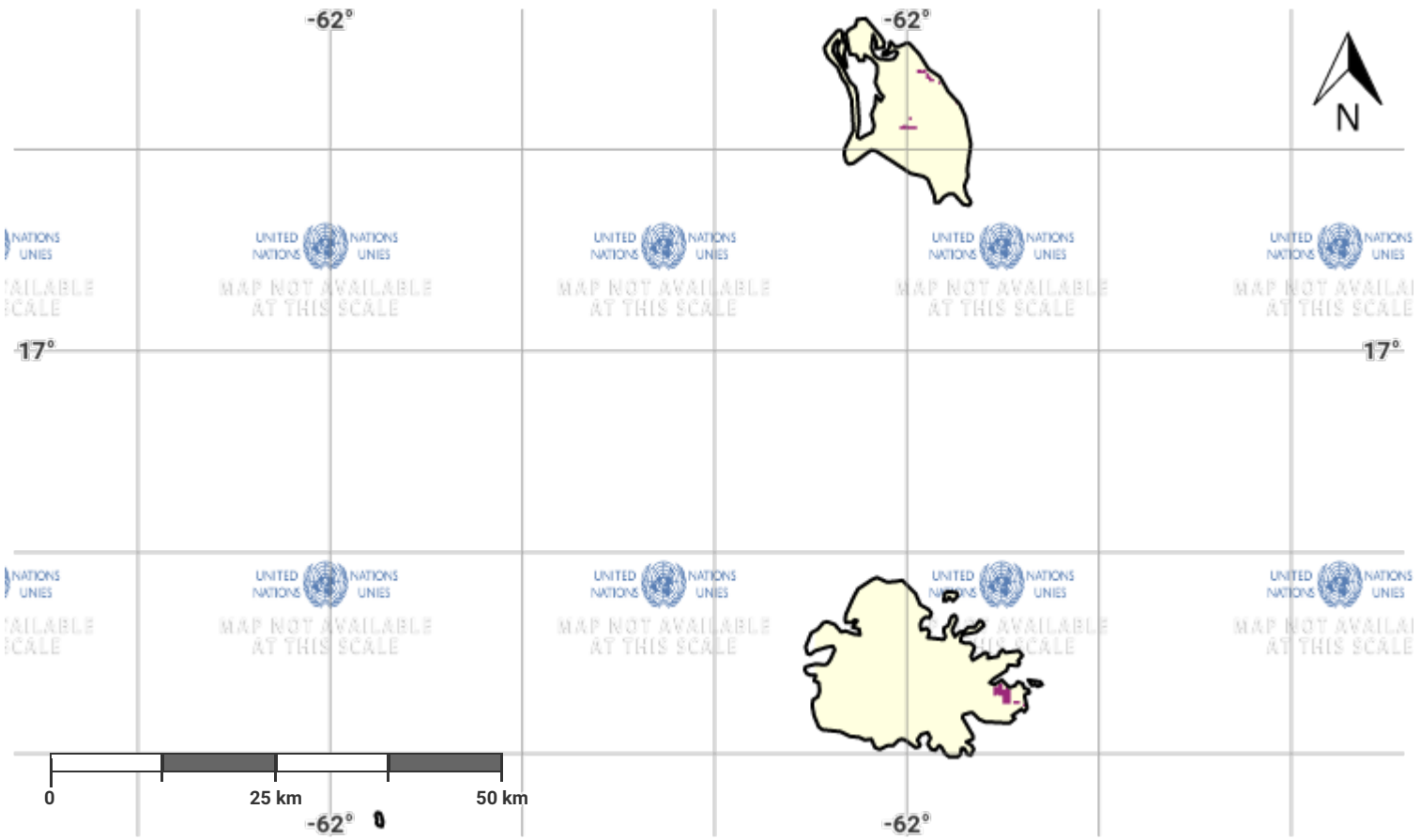
Antigua and Barbuda – SO1-1.M7

Land cover degradation in the reporting period



Legend

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

Projection: EPSG:3857 (Web Mercator)

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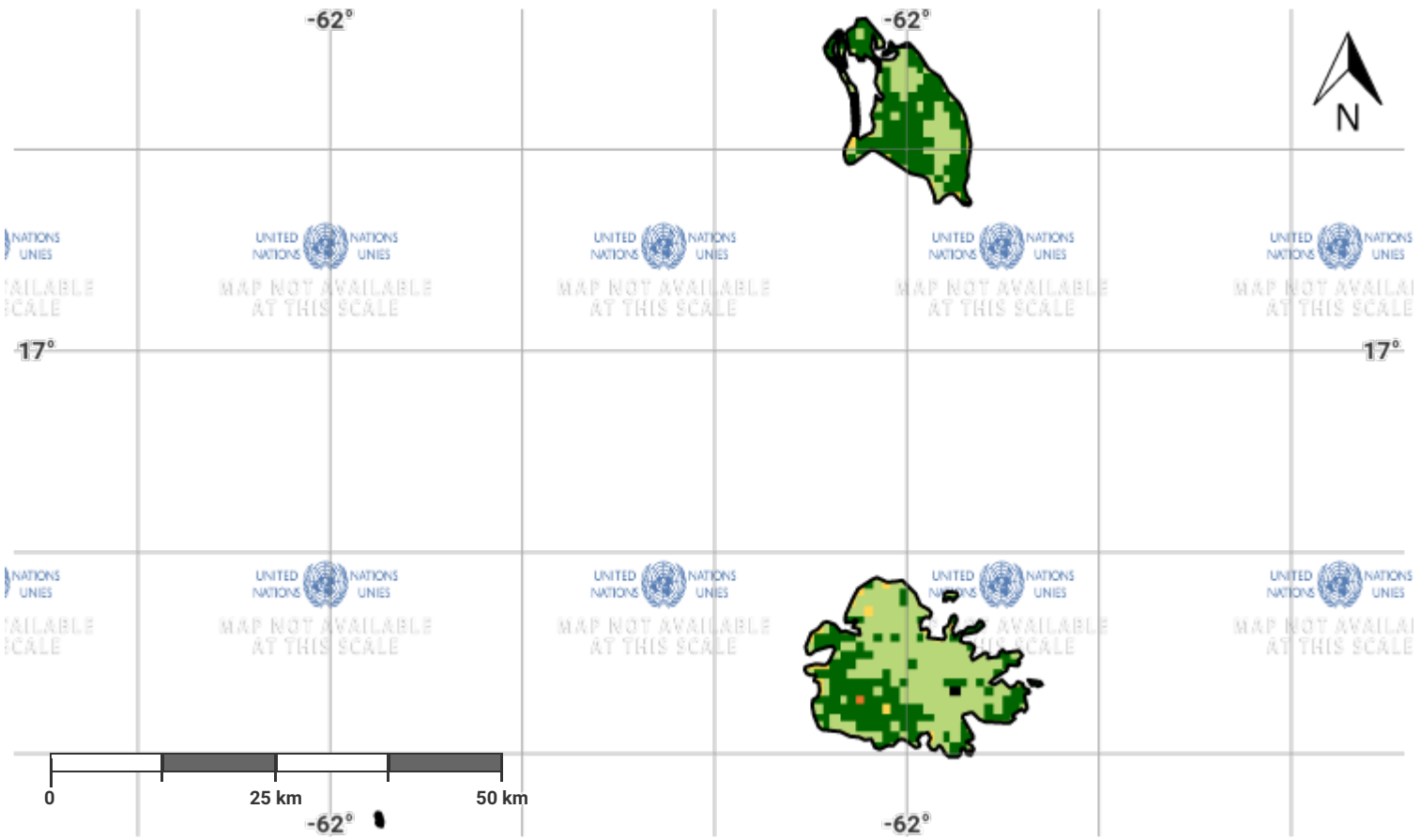
- European Space Agency Climate Change Initiative Land Cover (ESA CCI-LC) product, 1992-2019. URL: https://www.esa-landcover-cci.org/

Antigua and Barbuda – 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)

Disclaimer

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Source Data Credits

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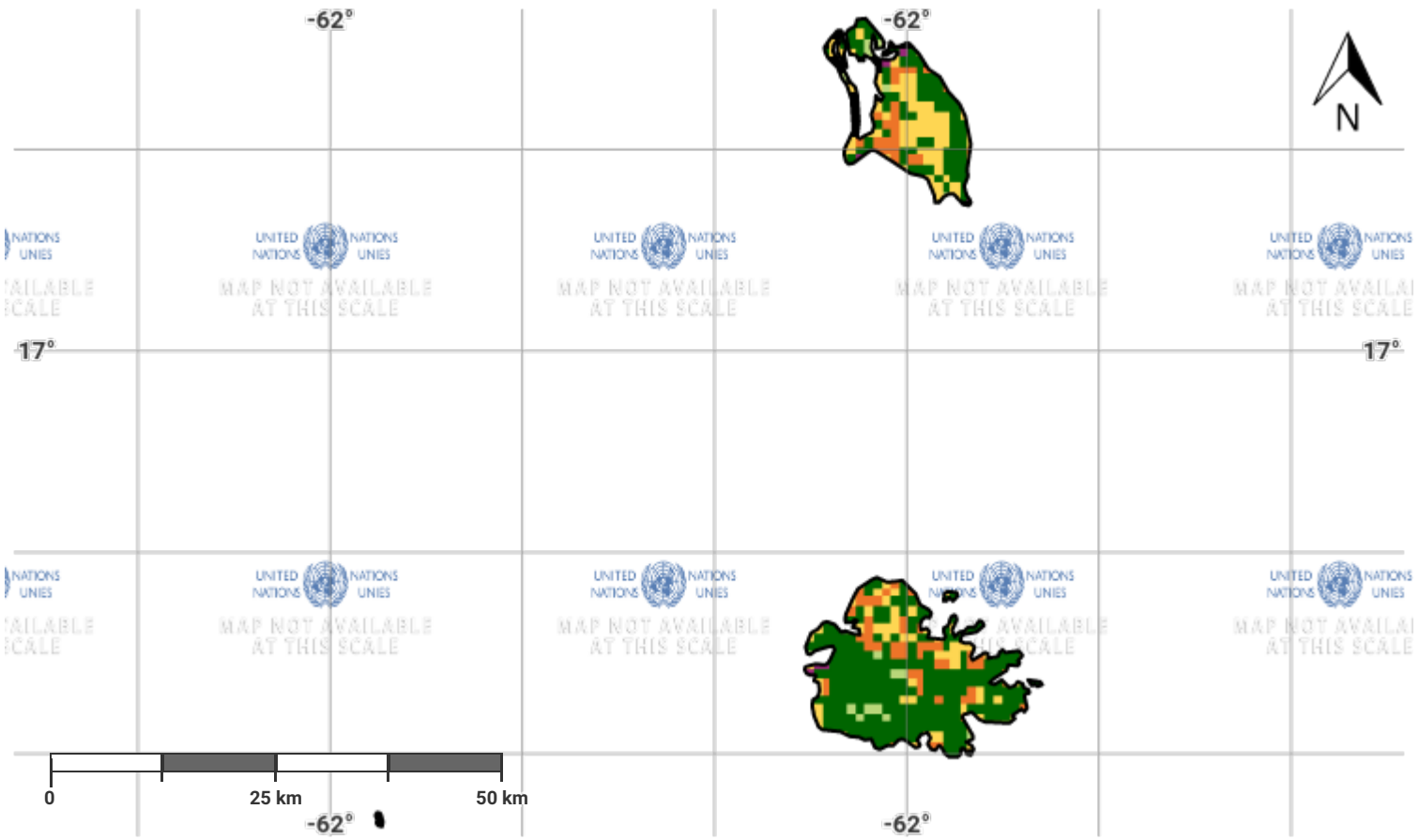
- EC-JRC, 2021, based on Xavier Rotllan-Puig, Eva Ivits, Michael Cherlet, LPDynR: A new tool to calculate the land productivity dynamics indicator, Ecological Indicators, Volume 133, 2021, 108386, ISSN 1470-160X. URL: https://doi.org/10.1016/j.ecolind.2021.108386

Antigua and Barbuda – SO1-2.M2

Land productivity dynamics in the reporting period



Legend

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

Projection: EPSG:3857 (Web Mercator)

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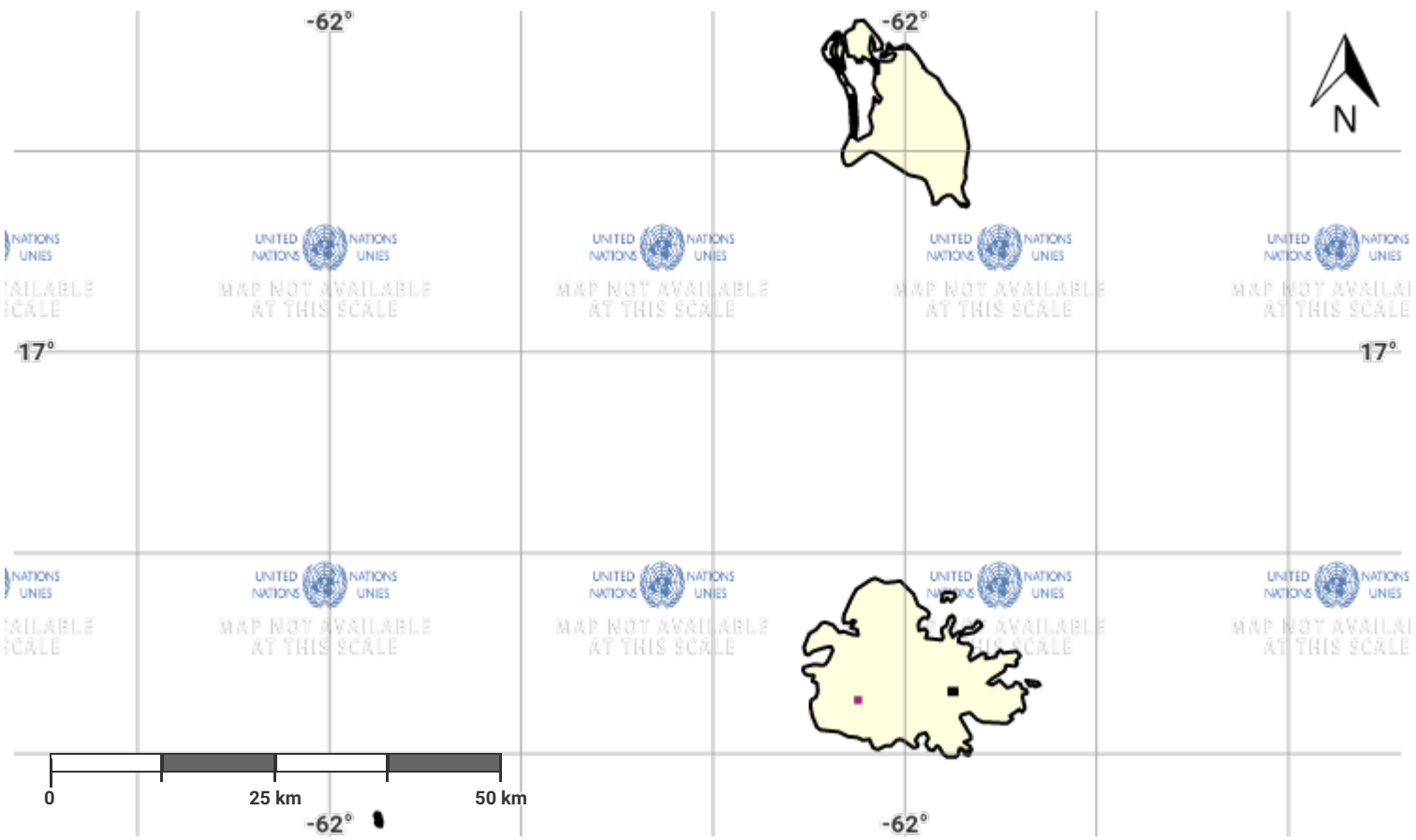
Antigua and Barbuda – SO1-2.M3

Land productivity degradation in the baseline period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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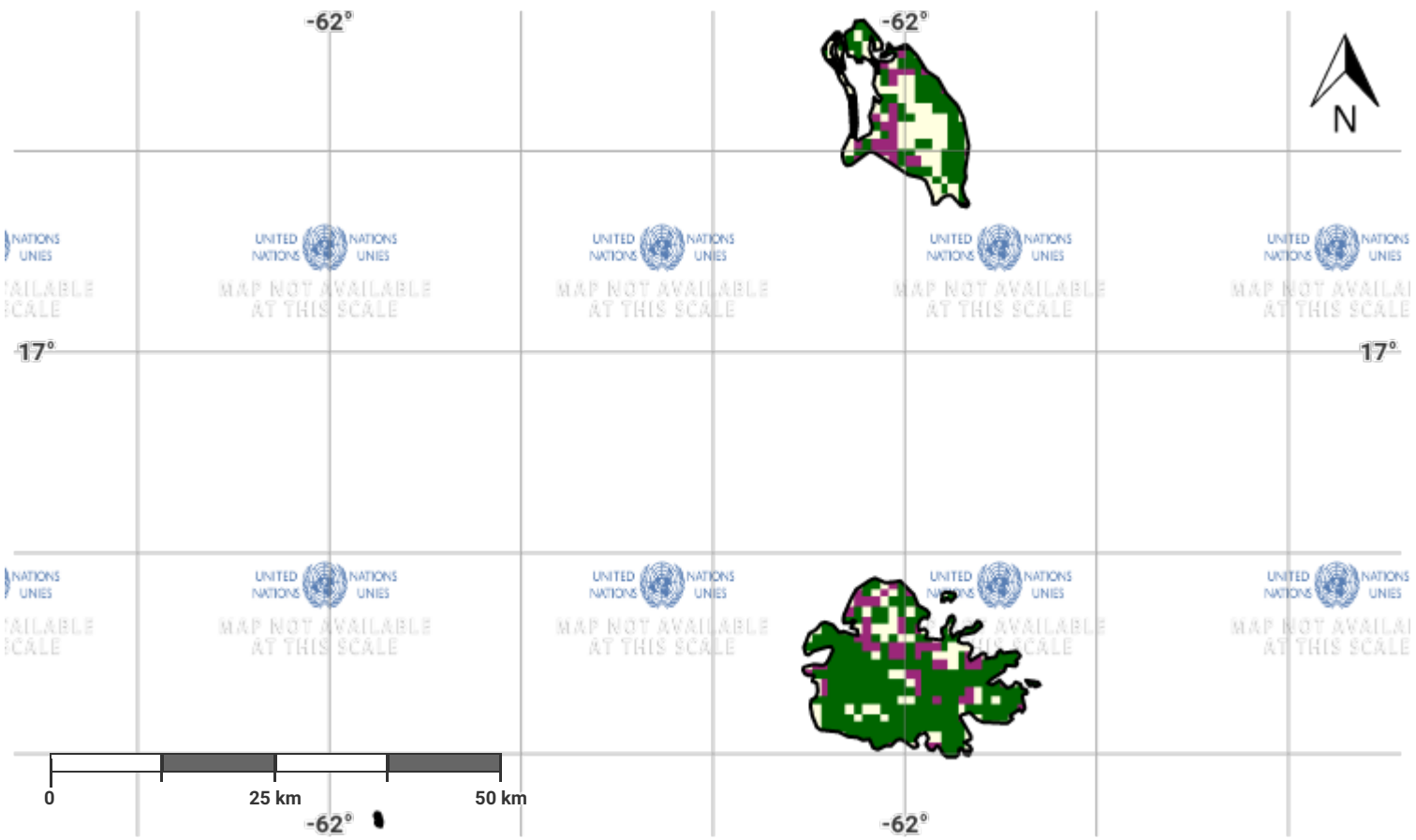
Antigua and Barbuda – SO1-2.M4

Land productivity degradation in the reporting period



Legend

- No data
- Degradation
- Not degraded
- Improvement
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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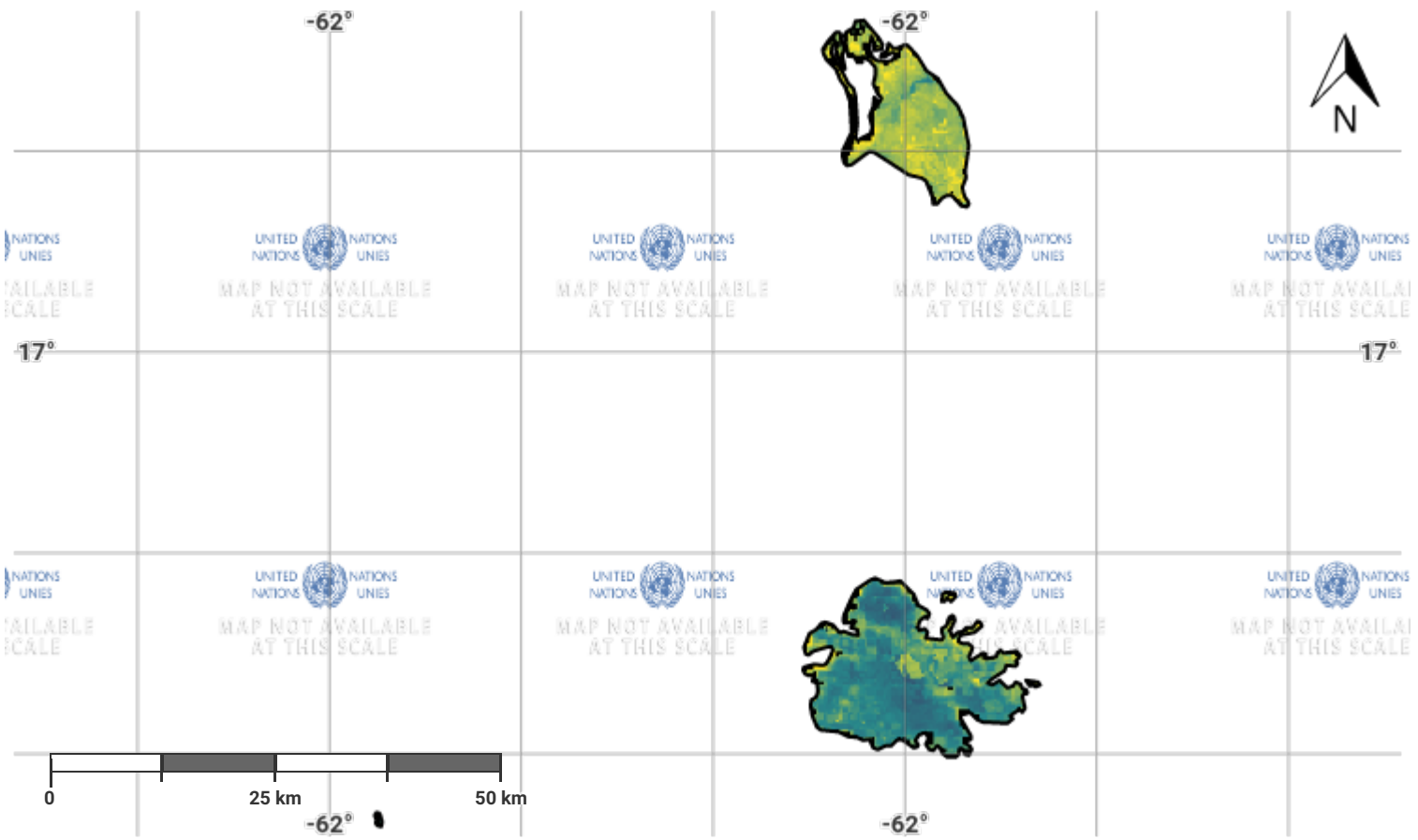
Antigua and Barbuda – SO1-3.M1

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



Legend

- No data
- 0 - 104.0 t/ha
- 104.0 - 208.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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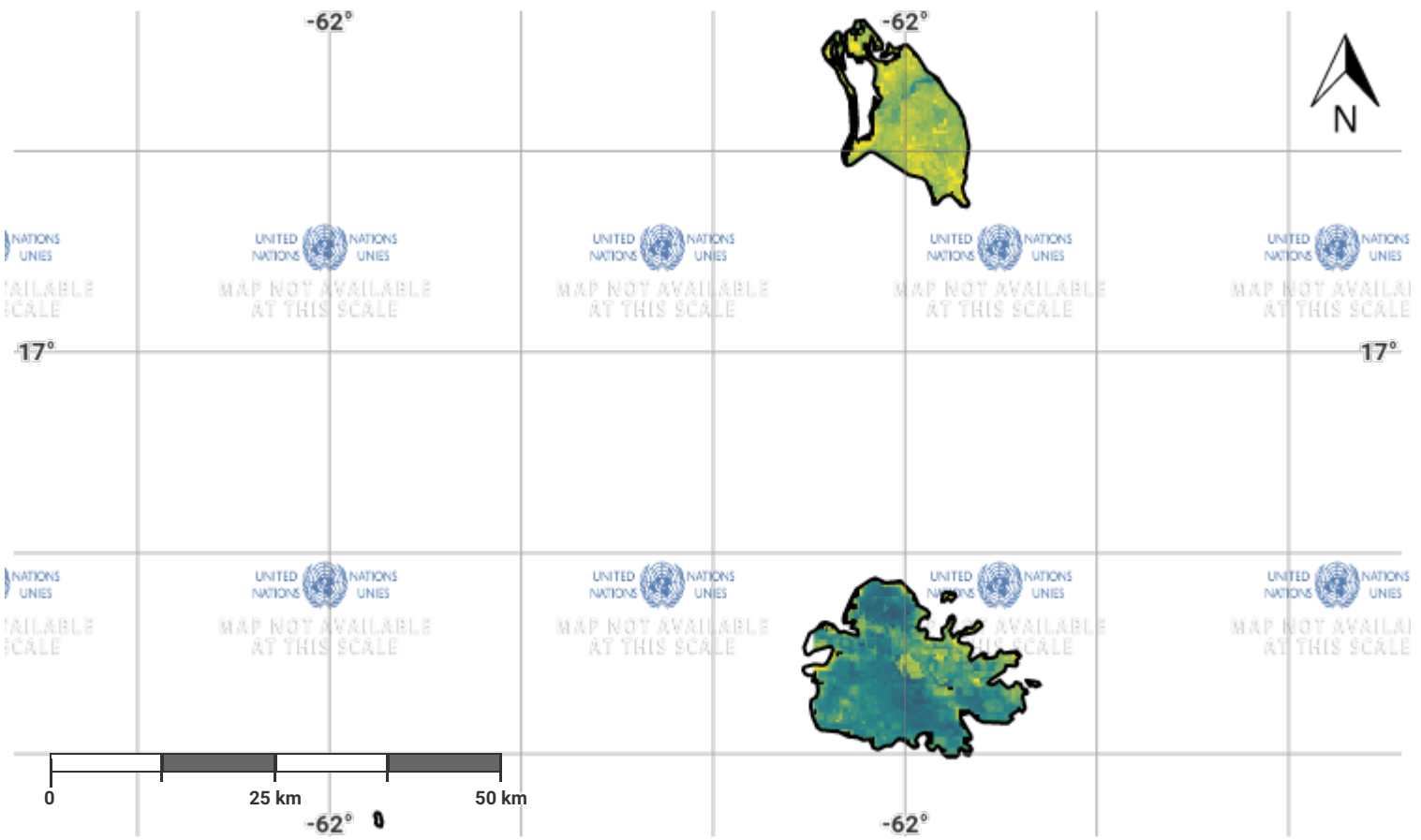
Source Data Credits

- United Nations Clear Map, United Nations Geospatial.
- International Soil Reference and Information Centre (ISRIC) SoilGrids250m dataset. URL: https://www.isric.org/explore/soilgrids

Antigua and Barbuda – SO1-3.M2

Soil organic carbon stock in the baseline year



Legend

- No data
- 0 - 104.0 t/ha
- 104.0 - 208.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

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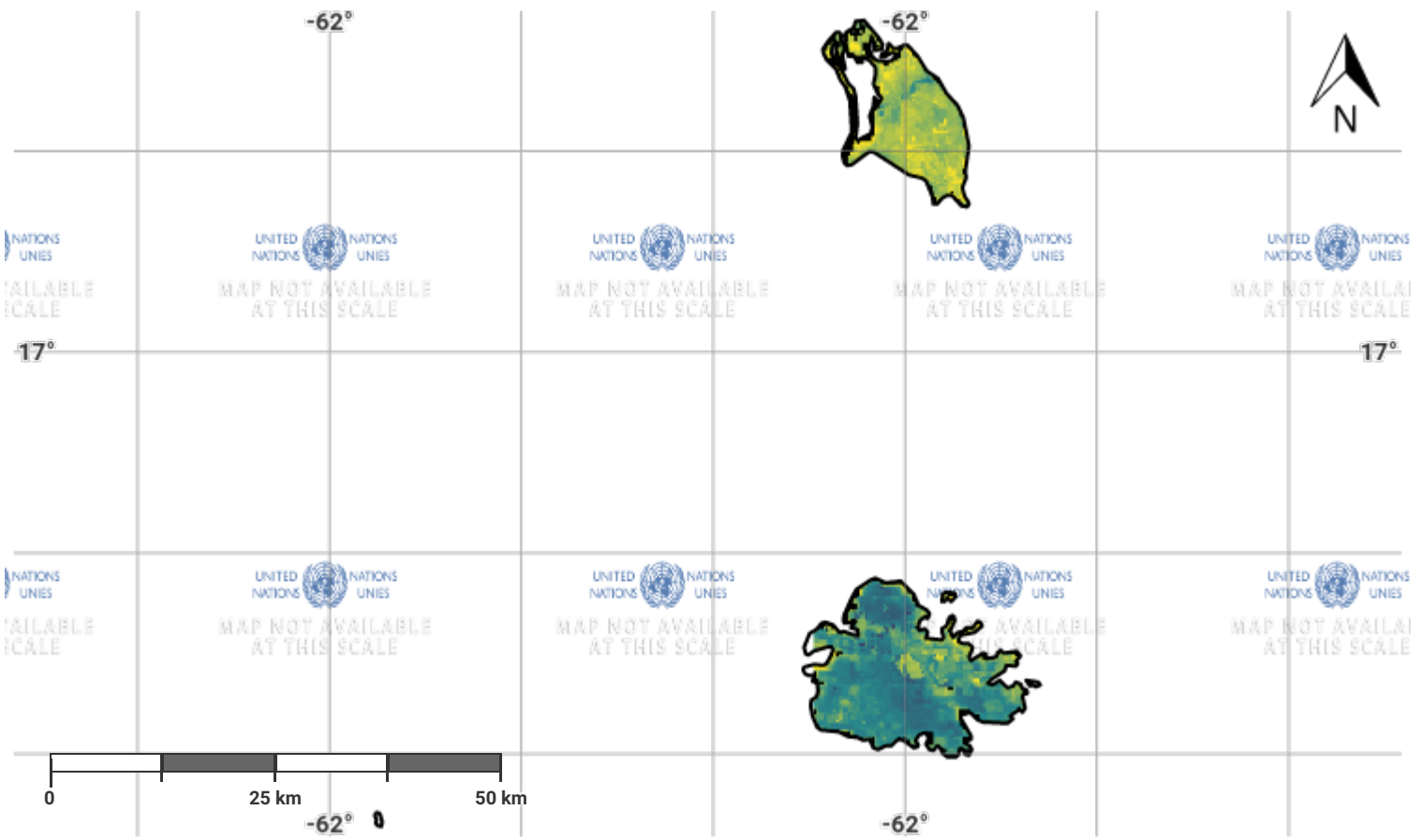
Antigua and Barbuda – SO1-3.M3

Soil organic carbon stock in the latest reporting year



Legend

- No data
- 0 - 104.0 t/ha
- 104.0 - 208.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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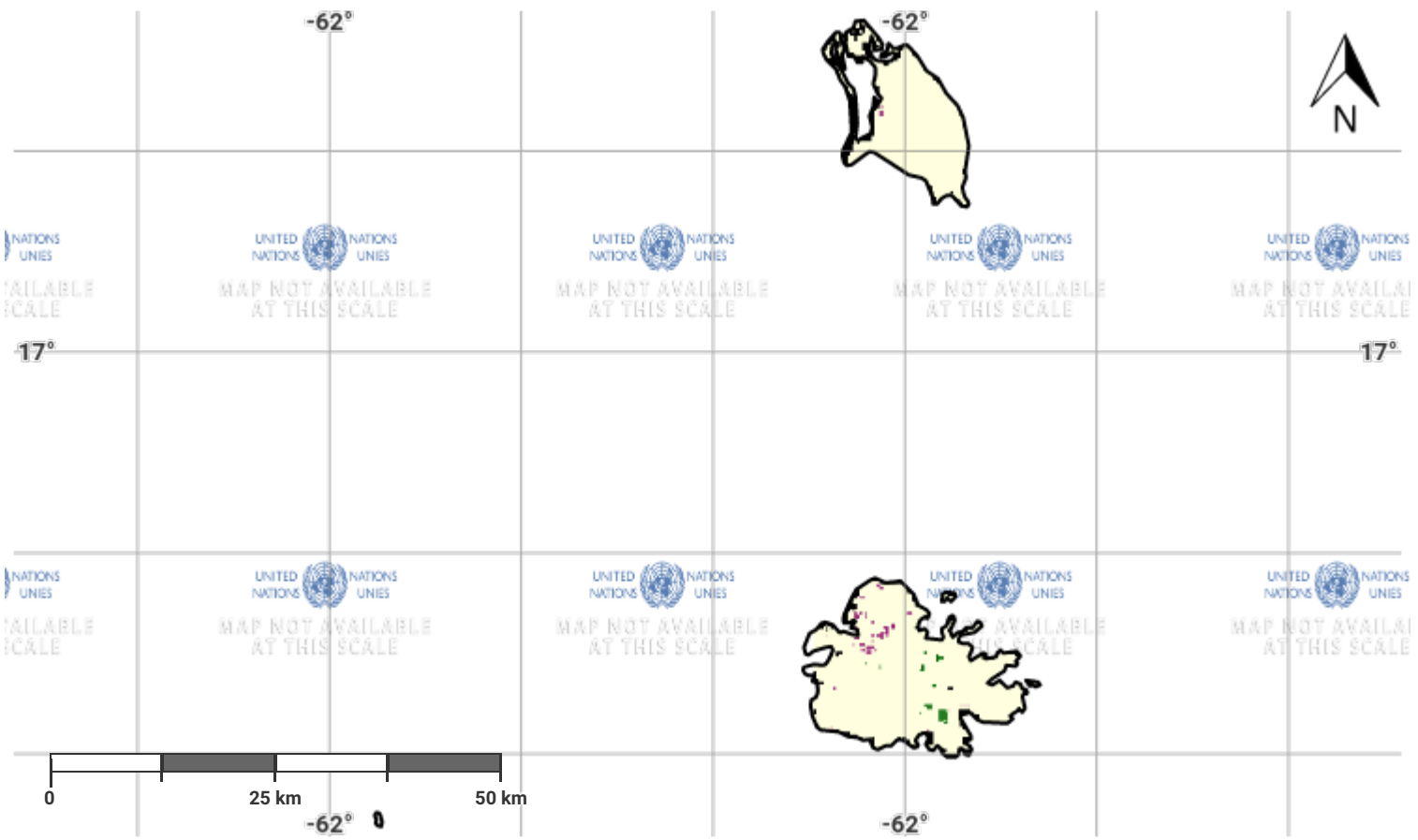
Antigua and Barbuda – SO1-3.M4

Change in soil organic carbon stock in the baseline period



Legend

- No data
- -14.0 - 0 t/ha
- 0 - 14.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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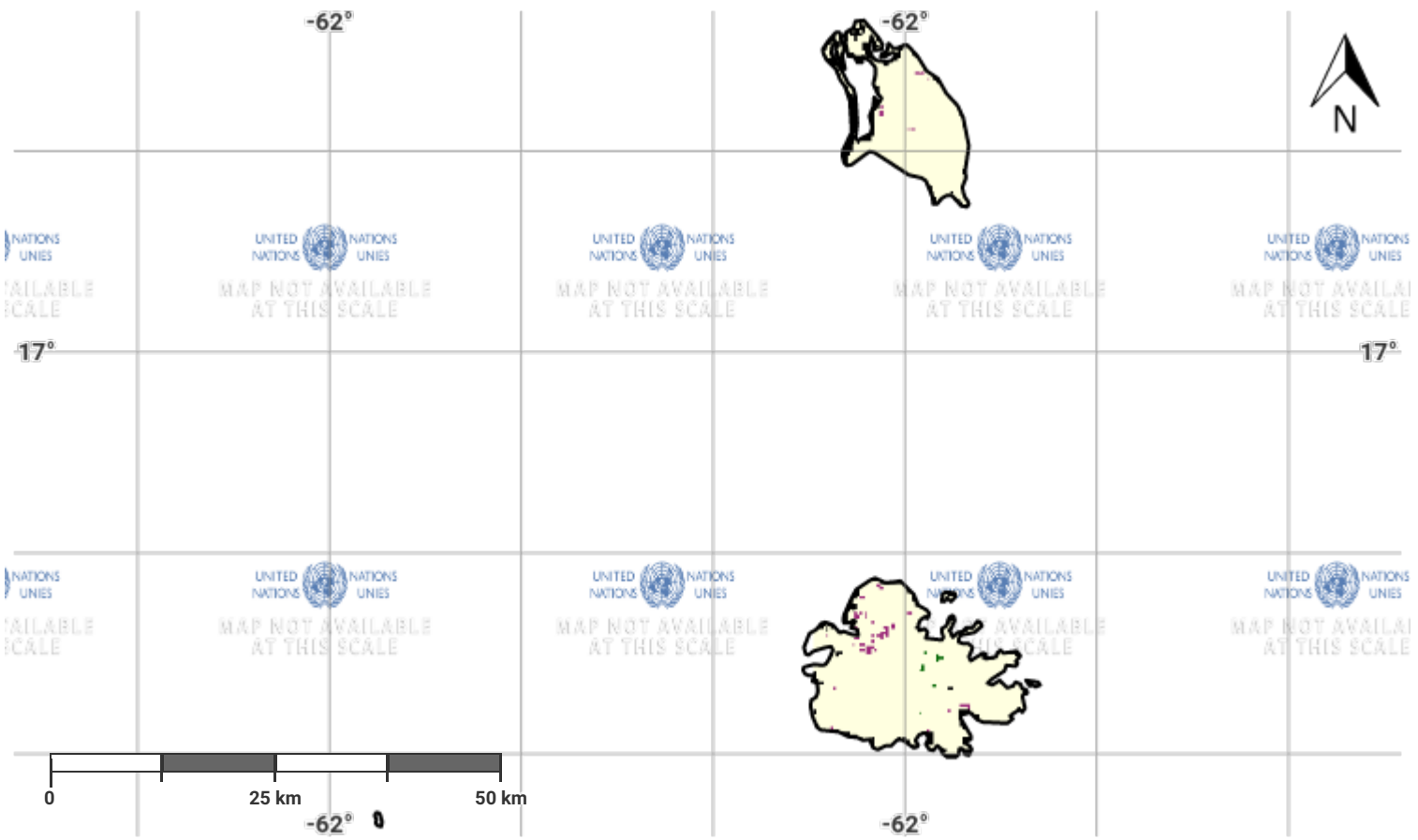
Antigua and Barbuda – SO1-3.M5

Change in soil organic carbon stock in the reporting period



Legend

- No data
- -3.0 - 0 t/ha
- 0 - 3.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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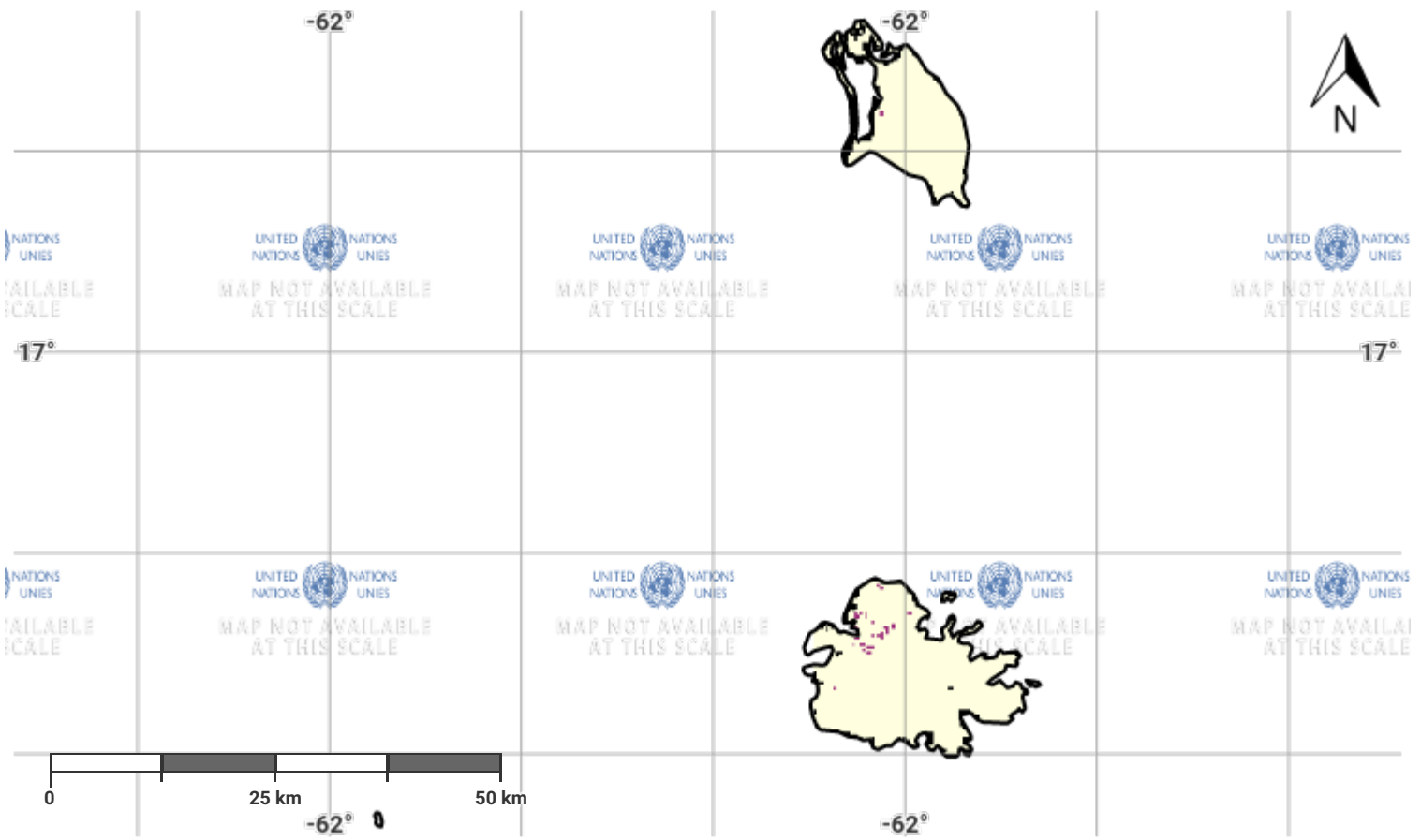
Antigua and Barbuda – SO1-3.M6

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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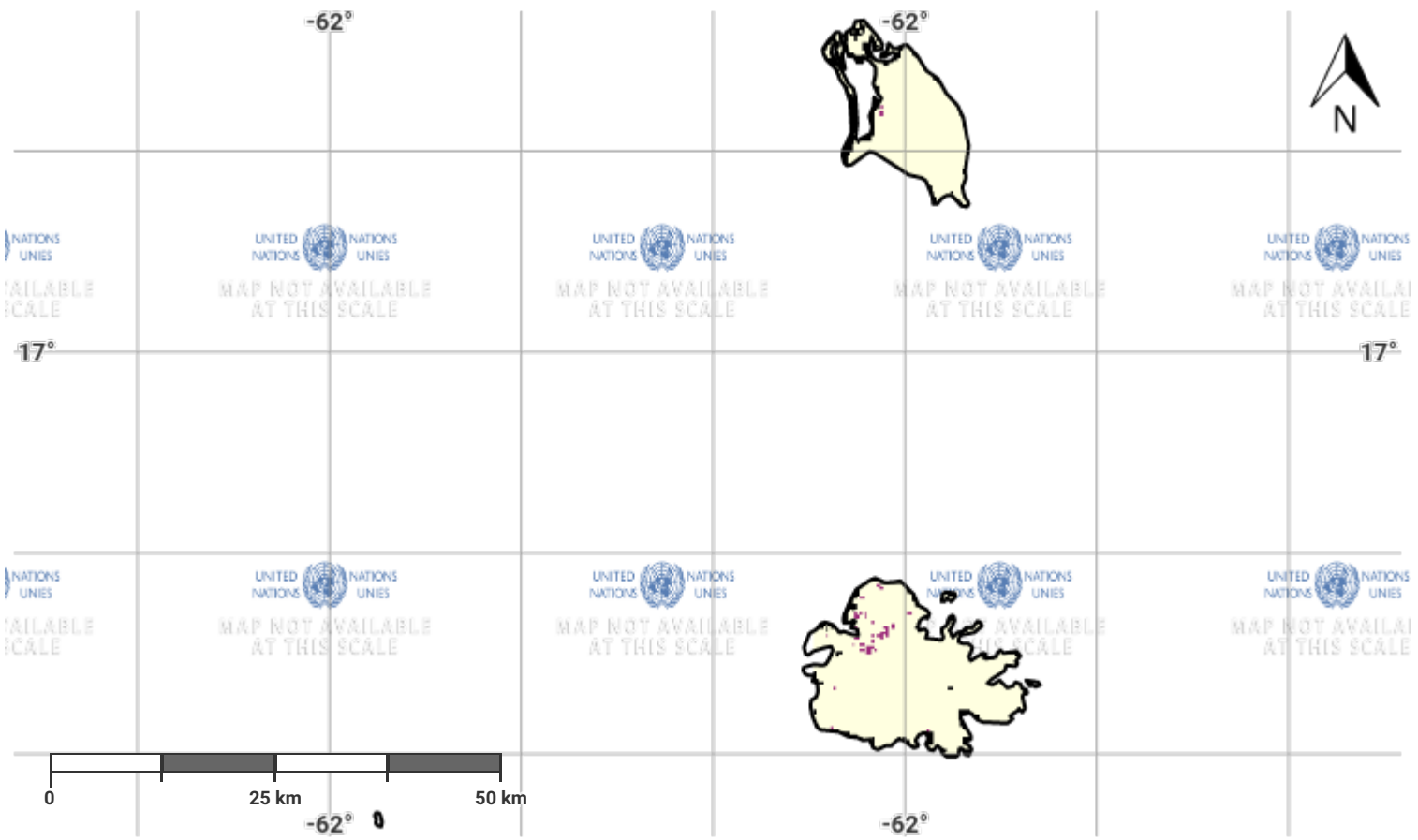
Antigua and Barbuda – SO1-3.M7

Soil organic carbon degradation in the reporting period



Legend

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

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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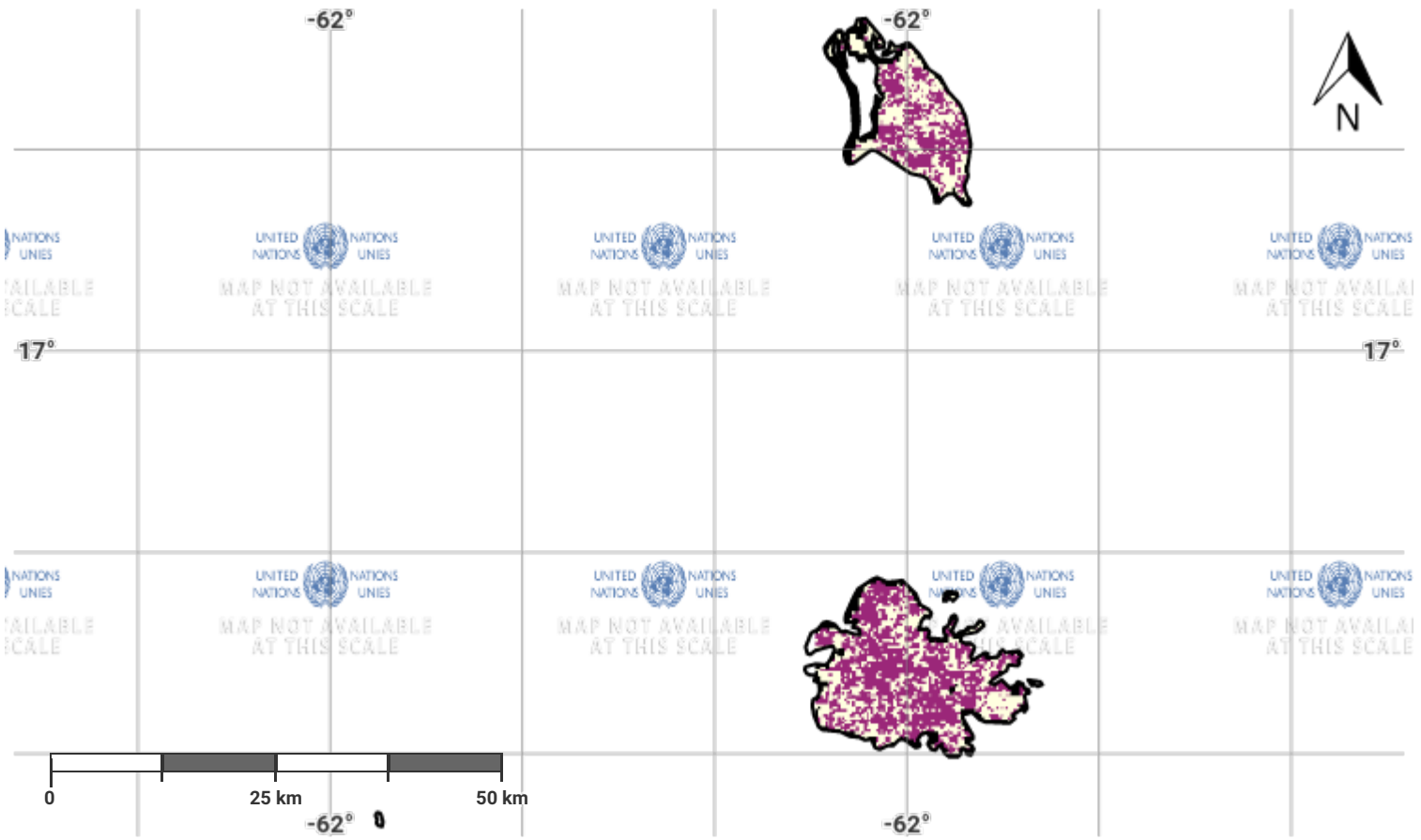
Antigua and Barbuda – SO1-4.M1

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)

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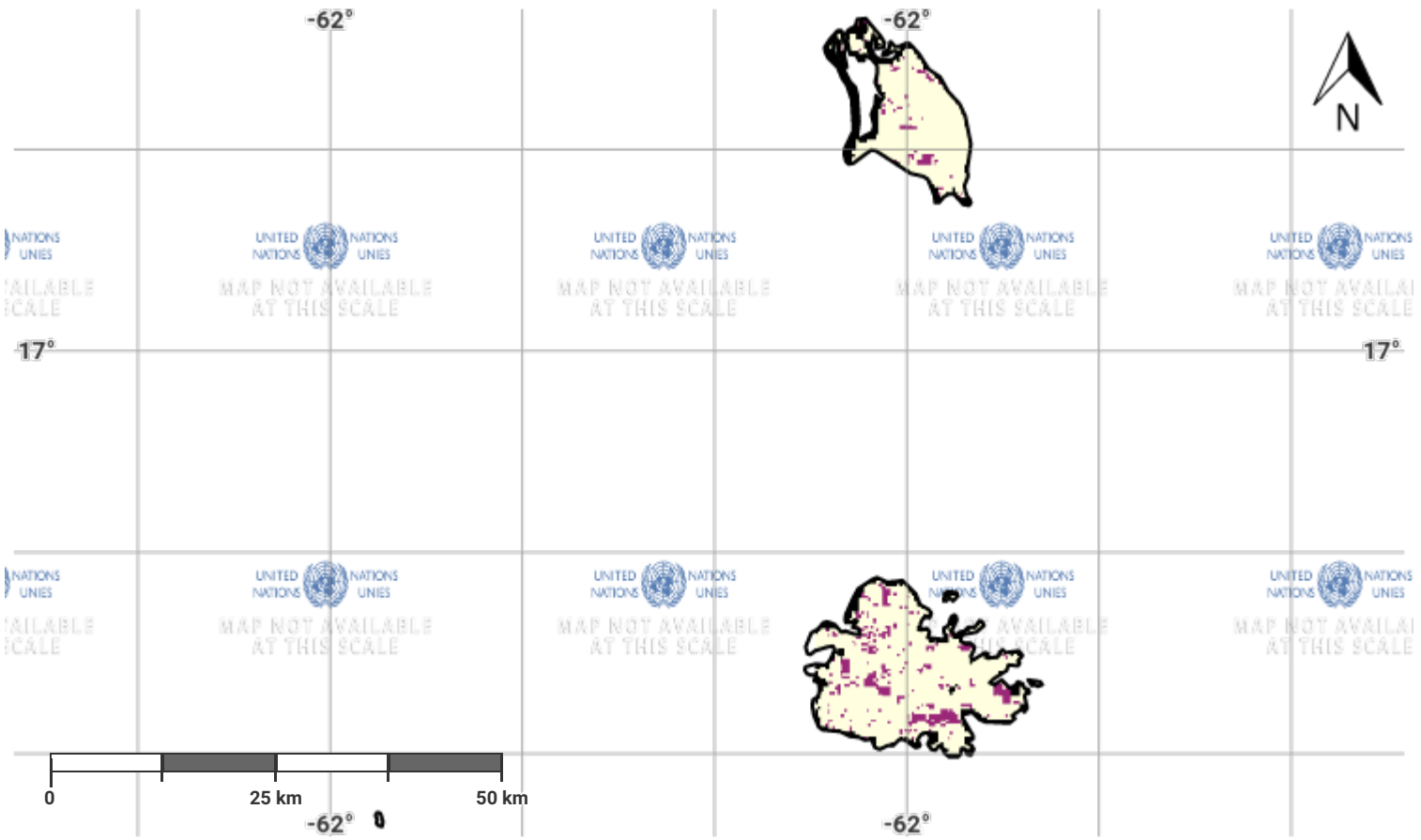
Source Data Credits

- 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

Antigua and Barbuda – 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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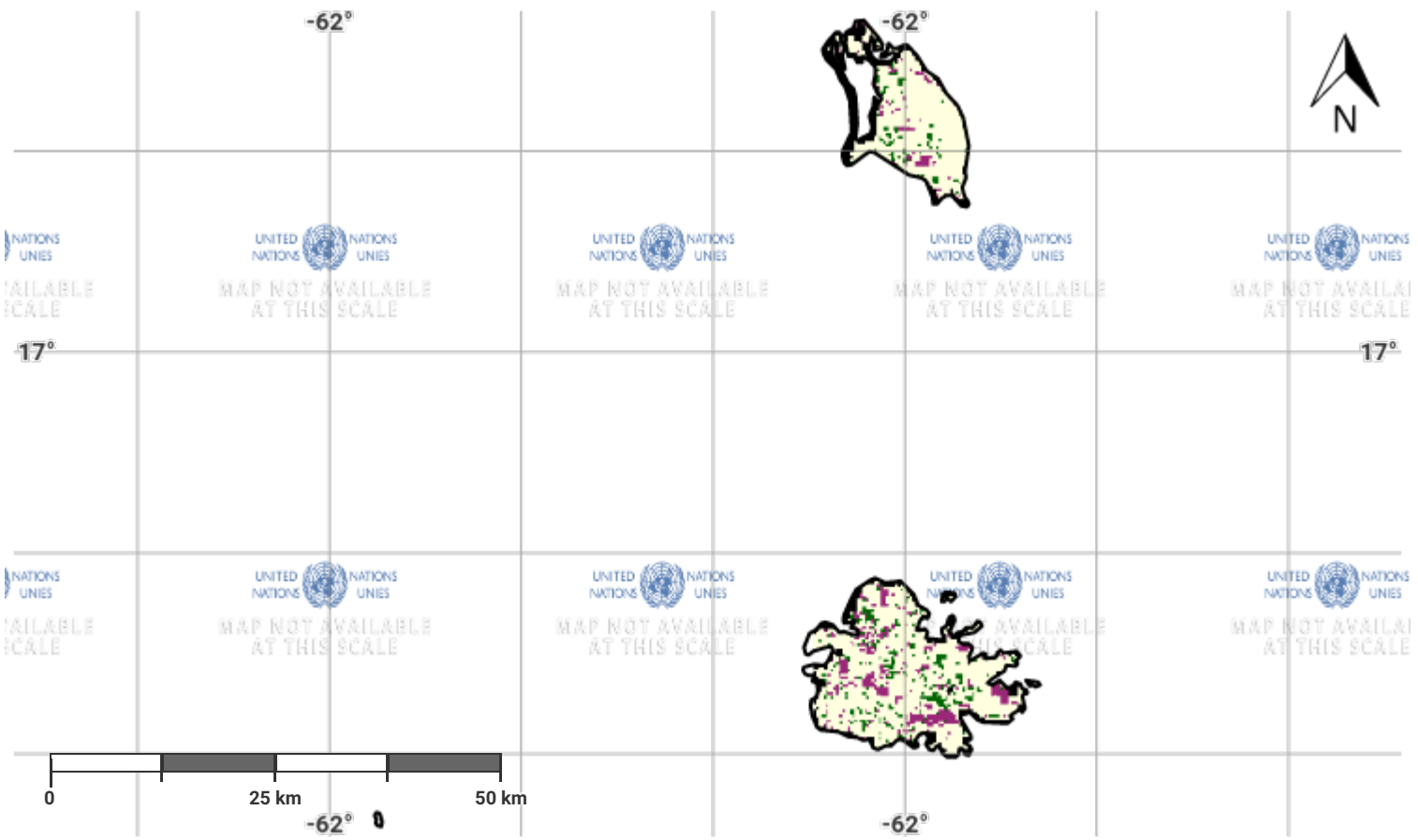
Antigua and Barbuda – SO1-4.M3

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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