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

Report from Morocco

1 March 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
2 000	709 930	920	710 850	FRA,2020
2 005	709 850	1 000	710 850	FRA,2020
2 010	709 800	1 050	710 850	FRA,2020
2 015	709 800	1 050	710 850	FRA,2020
2 019	709 800	1 050	710 850	FRA,2020
2 020	709 800	1 050	710 850	FRA,2020

Land cover legend and transition matrix

SO1-1.T2: Key Degradation Processes

Degradation Process	Starting Land Cover	Ending Land Cover
Vegetation Loss	Grasslands	Croplands
Deforestation	Tree-covered areas	Croplands
Urban Expansion	Croplands	Artificial surfaces

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	49 540	241 897	80 000	2 082	1 363	329 518	920	
2001	50 219	242 656	80 620	2 082	1 364	328 758	920	
2002	50 898	243 373	81 240	2 082	1 405	328 000	920	

	Tree-covered areas (km²)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	No data (km²)
2003	51 577	244 082	81 860	2 082	1 437	327 259	920	
2004	52 256	244 780	82 480	2 082	1 466	326 532	920	
2005	54 010	243 493	83 100	2 002	1 514	324 671	1 000	
2006	54 689	244 171	83 720	2 002	1 550	323 957	1 000	
2007	55 368	244 850	84 340	2 002	1 585	323 243	1 000	
2008	56 047	247 758	87 322	2 132	1 620	320 170	1 000	
2009	56 726	248 432	87 942	2 132	1 662	319 454	1 000	
2010	56 720	208 610	89 883	2 082	1 702	350 773	1 050	
2011	56 640	209 854	91 112	2 082	1 741	349 490	1 050	
2012	56 500	209 159	90 426	2 082	1 797	350 129	1 050	
2013	56 480	209 734	91 046	2 082	1 882	349 469	1 050	
2014	56 400	210 324	91 666	2 082	1 951	348 810	1 050	
2015	56 320	209 332	92 286	2 017	2 002	347 413	1 050	
2016	56 320	209 331	92 286	2 017	2 003	347 413	1 050	
2017	56 320	209 156	92 286	2 017	2 178	347 413	1 050	
2018	56 320	209 148	92 286	2 017	2 186	347 413	1 050	
2019	56 320	209 092	92 286	2 017	2 242	347 413	1 050	
2020	57 420	208 422	92 286	2 017	2 242	347 413	1 050	

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)	49 430	0	0	0	0	110	0	49 540
Grasslands (km²)	500	199 677	12 286	0	0	30 100	0	242 563
Croplands (km²)	0	0	80 000	0	0	0	0	80 000
Wetlands (km²)	0	0	0	2 017	0	0	0	2 017
Artificial surfaces (km²)	0	0	0	0	3 230	2 000	0	5 230
Other Lands (km²)	6 390	4 980	0	65	3 941	315 074	130	330 580
Water bodies (km²)	0	0	0	0	0	0	920	920
Total	56 320	204 657	92 286	2 082	7 171	347 284	1 050	

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)	Grasslands (km²)	Croplands (km²)	Wetlands (km²)	Artificial surfaces (km²)	Other Lands (km²)	Water bodies (km²)	Total land area (km²)
Tree-covered areas (km²)	56 320	0	0	0	0	0	0	56 320
Grasslands (km²)	0	208 422	0	0	0	0	0	208 422
Croplands (km²)	1 100	0	92 286	0	0	0	0	93 386
Wetlands (km²)	0	0	0	2 017	0	0	0	2 017
Artificial surfaces (km²)	0	0	0	0	2 002	0	0	2 002
Other Lands (km²)	0	0	0	0	240	347 413	0	347 653
Water bodies (km²)	0	0	0	0	0	0	1 050	1 050
Total	57 420	208 422	92 286	2 017	2 242	347 413	1 050	

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	34 151	4 .8
Land area with non-degraded land cover	676 699	95 .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	1 100	0 .2
Land area with stable land cover	709 510	99 .8
Land area with degraded land cover	240	0 .0
Land area with no land cover data	0	0 .0

General comments

Les données utilisées pour l'occupation des terres et les dynamiques de leurs changements sont issues des études réalisées au niveau national.

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	560	988	437	5 156	11 835	5
Grasslands	625	7 227	1 208	49 971	44 881	33
Croplands	1 845	5 216	1 340	42 024	39 326	31
Wetlands	0	0	0	0	0	0
Artificial surfaces	184	62	214	324	576	5
Other Lands	641	2 788	10 049	367 979	72 514	114
Water bodies	86	33	133	121	56	64 418

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	666	762	539	7 201	10 209	5
Grasslands	3 750	8 363	1 552	78 599	14 910	33
Croplands	2 779	3 909	2 152	56 697	25 298	30
Wetlands	0	0	0	0	0	0
Artificial surfaces	216	59	261	499	471	7
Other Lands	3 876	5 521	6 085	389 030	47 912	116
Water bodies	77	15	123	153	65	64 428

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)
Other Lands	Grasslands	7 515	7	345	18	2 523	4 621
Grasslands	Croplands	3 735	19	241	21	1 417	2 037
Croplands	Tree-covered areas	971	11	42	0	191	727
Other Lands	Croplands	363	3	13	7	130	210

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)
Other Lands	Grasslands	5 485	143	366	19	4 403	553
Grasslands	Croplands	2 542	35	190	24	1 699	595
Croplands	Tree-covered areas	829	21	29	0	226	552
Croplands	Artificial surfaces	418	152	25	31	136	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	21 260	3 .0
Land area with non-degraded land productivity	660 567	93 .1
Land area with no land productivity data	271	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	100 885	14 .2
Land area with stable land productivity	549 784	77 .5
Land area with degraded land productivity	31 110	4 .4
Land area with no land productivity data	196	0 .0

General comments

Les données fournis par la plateforme trends.earth ont été utilisées pour caractériser la productivité des terres au niveau national.

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	77	39	51	104	46	11	0
2002	77	39	51	104	46	11	0
2003	77	39	51	104	46	11	1
2004	77	38	51	104	46	11	1
2005	77	38	51	104	46	11	0
2006	77	38	51	104	46	11	0
2007	77	38	51	104	45	10	0
2008	77	38	51	104	45	10	0
2009	78	38	50	104	45	10	1
2010	78	38	50	104	45	10	1
2011	78	39	50	104	44	10	1
2012	78	39	50	104	44	10	1
2013	78	39	50	104	43	10	1
2014	78	39	50	104	43	10	1
2015	78	39	50	104	42	10	1
2016	78	39	50	106	42	10	1
2017	78	39	50	106	41	10	1
2018	78	39	50	106	40	10	1
2019	78	39	50	106	39	10	1
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)
Other Lands	Grasslands	7 515	27 .0	40 .1	20 304 854	30 114 509	9 809 655

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)
Croplands	Tree-covered areas	971	80 .3	88 .4	7 800 744	8 587 011	786 267
Other Lands	Croplands	363	36 .8	53 .0	1 336 573	1 923 607	587 034
Grasslands	Croplands	3 735	39 .5	35 .4	14 759 316	13 236 384	-1 522 932

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)
Other Lands	Grasslands	1 291	18 .3	19 .3	2 357 138	2 497 289	140 151
Croplands	Tree-covered areas	134	69 .7	70 .3	934 147	942 134	7 987
Grasslands	Croplands	182	33 .9	32 .9	616 330	598 225	-18 105
Croplands	Artificial surfaces	144	41 .7	36 .2	601 143	520 731	-80 412

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)	2 367	0 .3
Land area with non-degraded SOC	679 591	95 .7
Land area with no SOC data	140	0 .0

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	3 918	0 .6
Land area with stable SOC	676 994	95 .4
Land area with degraded SOC	1 003	0 .1
Land area with no SOC data	60	0 .0

General comments

Les données fournis par la plateforme trends.earth ont été utilisées pour caractériser le stock de carbone dans les sols au niveau national.

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	23 446	3 .3
Reporting Period	35 820	5 .0
Change in degraded extent	12374	

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:

Dans le but d'avoir une évaluation objective de la dégradation des terres, nous avons utilisés les données nationales combinées avec celles fournies par la plateforme trends.earth.

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

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
Rif et Oriental	Rif et Oriental		Establishment of expert panels	1. Fire regime change 2. Grazing land management	☒ Avoid ☒ Reduce ☒ Reverse	• Restore/improve wetlands • Increase protected areas • Restore/improve croplands • Restore/improve grasslands • Restore/improve protected areas • Restore/improve tree-covered areas • Increase tree-covered area extent	
Total no. of hotspots	1						
Total hotspot area	0						

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

Demographic

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
Steppes de l'Oriental	Oriental		Establishment of expert panels	☒ Avoid ☒ Reduce ☒ Reverse	• Restore/improve grasslands • Restore/improve tree-covered areas • Increase tree-covered area extent	
Total no. of brightpots		2				
Total brightspot area		0				

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

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
Moyen Atlas	Moyen Atlas		Establishment of expert panels	☒ Avoid ☒ Reduce ☒ Reverse	• Restore/improve wetlands • Increase protected areas • Restore/improve grasslands • Restore/improve protected areas • Restore/improve tree-covered areas • Increase soil fertility and carbon stock	
Total no. of brightpots		2				
Total brightspot area		0				

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

1. Legal and regulatory instruments
2. Economic and financial instruments
3. Protected areas
4. Institutional and policy reform

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

General comments

À l'horizon 2030, le renforcement des programmes de reboisement en passant d'une cadence annuelle de 50.000 à 100.000 ha, la réhabilitation des périmètres des PMH sur 150.000 ha ainsi que le développement des terrains de parcours sur une superficie de 60.000ha. (NDC du Maroc, 2021 ; Stratégie Forêts du Maroc 2020-2030 ; Stratégie Green Generation 2020-2030).

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)

Income inequality (Gini Index)

SO2-1.T2: National estimates of income inequality (Gini index)

Year	Income inequality (Gini Index)
2000	40 .6
2001	40 .6
2002	40 .6
2003	40 .6
2004	40 .6
2005	40 .6
2006	40 .6
2007	40 .7
2008	40 .7
2009	40 .7
2010	40 .7
2011	40 .7
2012	40 .7
2013	40 .7
2014	39 .5
2015	39 .5
2016	39 .5
2017	39 .5
2018	39 .5
2019	39 .5
2020	39 .4

Qualitative assessment

SO2-1.T3: Interpretation of the indicator

Indicator metric	Change in the indicator	Comments
Income inequality (Gini Index)	Decrease	

General comments

Les données utilisées proviennent du site officiel du Haut Commissariat au Plan https://www.hcp.ma/

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	86	17	54
2001	86	19	55
2002	86	20	56
2003	86	21	56
2004	86	22	57
2005	87	23	58
2006	87	25	59
2007	87	26	60
2008	87	27	61
2009	87	28	62
2010	88	31	64
2011	89	33	66
2012	89	36	67
2013	89	39	69
2014	90	42	71
2015	90	45	72
2016	90	48	74
2017	90	51	75
2018	90	54	77
2019	91	58	78
2020	91	61	80

Qualitative assessment

SO2-2.T2: Interpretation of the indicator

Change in the indicator	Comments
Increase	

General comments

Les efforts déployés par le Maroc en matière de développement des infrastructures de mobilisation, de production et de distribution d'eau ont permis de sécuriser l'approvisionnement en eau potable au niveau rural et urbain.

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					
2001					
2002					
2003					
2004					
2005					
2006					
2007					
2008					
2009					
2010					
2011					
2012					
2013					
2014					
2015					
2016					
2017					
2018					
2019					
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		-
2001		-
2002		-
2003		-
2004		-
2005		-
2006		-
2007		-
2008		-
2009		-
2010		-
2011		-

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

	Total area under drought (km²)	Proportion of land under drought (%)
2012		-
2013		-
2014		-
2015		-
2016		-
2017		-
2018		-
2019		-
2020		-
2021		-

Qualitative assessment:

General comments

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		-		-		-		-		-	-	-
2001		-		-		-		-		-	-	-
2002		-		-		-		-		-	-	-
2003		-		-		-		-		-	-	-
2004		-		-		-		-		-	-	-
2005		-		-		-		-		-	-	-
2006		-		-		-		-		-	-	-
2007		-		-		-		-		-	-	-
2008		-		-		-		-		-	-	-
2009		-		-		-		-		-	-	-
2010		-		-		-		-		-	-	-
2011		-		-		-		-		-	-	-
2012		-		-		-		-		-	-	-
2013		-		-		-		-		-	-	-
2014		-		-		-		-		-	-	-
2015		-		-		-		-		-	-	-
2016		-		-		-		-		-	-	-
2017		-		-		-		-		-	-	-
2018		-		-		-		-		-	-	-
2019		-		-		-		-		-	-	-
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		-		-		-		-		-	-	-
2001		-		-		-		-		-	-	-
2002		-		-		-		-		-	-	-
2003		-		-		-		-		-	-	-
2004		-		-		-		-		-	-	-
2005		-		-		-		-		-	-	-
2006		-		-		-		-		-	-	-
2007		-		-		-		-		-	-	-

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 female population	
Reporting year	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%	Population count	%
2008		-		-		-		-		-	-	-
2009		-		-		-		-		-	-	-
2010		-		-		-		-		-	-	-
2011		-		-		-		-		-	-	-
2012		-		-		-		-		-	-	-
2013		-		-		-		-		-	-	-
2014		-		-		-		-		-	-	-
2015		-		-		-		-		-	-	-
2016		-		-		-		-		-	-	-
2017		-		-		-		-		-	-	-
2018		-		-		-		-		-	-	-
2019		-		-		-		-		-	-	-
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		-		-		-		-		-	-	-
2001		-		-		-		-		-	-	-
2002		-		-		-		-		-	-	-
2003		-		-		-		-		-	-	-
2004		-		-		-		-		-	-	-
2005		-		-		-		-		-	-	-
2006		-		-		-		-		-	-	-
2007		-		-		-		-		-	-	-
2008		-		-		-		-		-	-	-
2009		-		-		-		-		-	-	-
2010		-		-		-		-		-	-	-
2011		-		-		-		-		-	-	-
2012		-		-		-		-		-	-	-
2013		-		-		-		-		-	-	-
2014		-		-		-		-		-	-	-
2015		-		-		-		-		-	-	-
2016		-		-		-		-		-	-	-
2017		-		-		-		-		-	-	-
2018		-		-		-		-		-	-	-
2019		-		-		-		-		-	-	-
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			
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	0 .89954	0 .89612	0 .90176	
2001	0 .8986	0 .89529	0 .90098	
2002	0 .8979	0 .89474	0 .90015	
2003	0 .89718	0 .89383	0 .89941	
2004	0 .89638	0 .89242	0 .89835	
2005	0 .89558	0 .89171	0 .89763	
2006	0 .89475	0 .89021	0 .89697	
2007	0 .89428	0 .88972	0 .89653	
2008	0 .89369	0 .88869	0 .89618	
2009	0 .89314	0 .88808	0 .89592	
2010	0 .8923	0 .88634	0 .89554	
2011	0 .89168	0 .88506	0 .89546	
2012	0 .89109	0 .88336	0 .89517	
2013	0 .89025	0 .8827	0 .89493	
2014	0 .88956	0 .88087	0 .89463	
2015	0 .88873	0 .87982	0 .89458	
2016	0 .88805	0 .87813	0 .89413	
2017	0 .88701	0 .87659	0 .89408	
2018	0 .88632	0 .87533	0 .89388	
2019	0 .8857	0 .87459	0 .8938	
2020	0 .88504	0 .87298	0 .89352	

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

Les valeurs de l'indice de la liste rouge reprises au niveau du tableau correspondent à celles pré-renseignées à partir de la base de données des ODD.

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	45.68			
2002	45.68			
2003	45.68			
2004	45.68			
2005	45.68			
2006	45.68			
2007	45.68			
2008	45.68			
2009	45.68			
2010	40.13			
2011	40.13			
2012	40.13			
2013	40.13			
2014	40.13			
2015	40.13			
2016	65.32			
2017	65.32			
2018	65.32			
2019	65.32			
2020	65.32			

Qualitative assessment

SO4-3.T2: Interpretation of the indicator

Qualitative Assessment	Comment
Increasing	La diminution du pourcentage des KBA, en 2010 est attribuable à la création d'une nouvelle aire protégée. Le pourcentage des KBA a augmenté à partir de 2016 en raison de l'identification de plusieurs sites importants.

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 0	Disbursed 0
Provided	2017	Committed 0	Disbursed 0
Provided	2018	Committed 0	Disbursed 0
Provided	2019	Committed 0	Disbursed 0
Received	2016	Committed 88 532 411 .95	Received 51 005 698 .04
Received	2017	Committed 24 696 057 .55	Received 52 210 720 .76
Received	2018	Committed 8 485 133 .19	Received 19 698 757 .64
Received	2019	Committed 9 943 020 .23	Received 32 356 538 .84
Total resources provided:		0	0
Total resources received:		131 656 622 .92	155 271 715 .28

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

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?

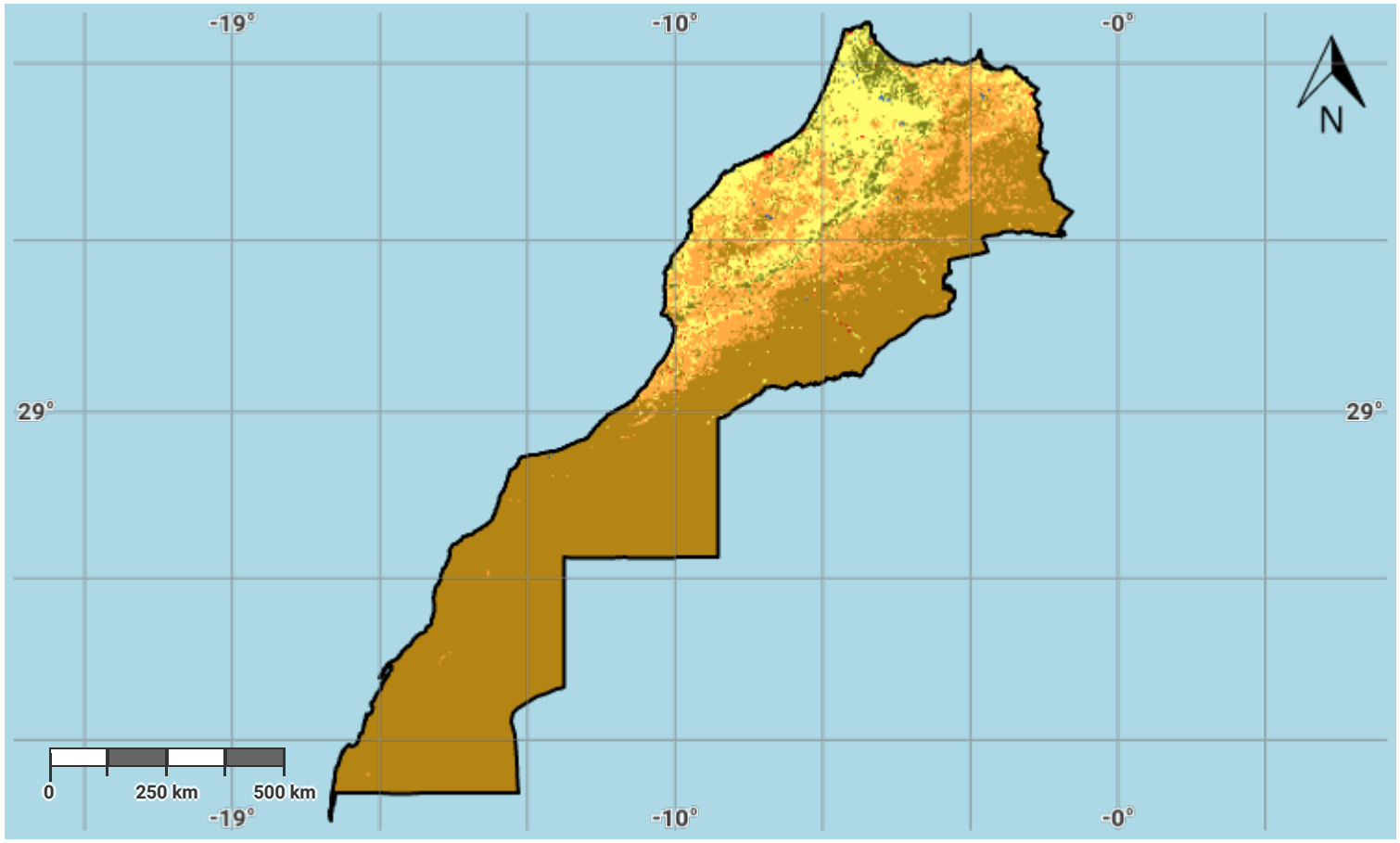
- ○ Yes
- ○ No

Other files for Reporting

Morocco - SO5-1 recipient	Download	81.3 KB

Morocco – 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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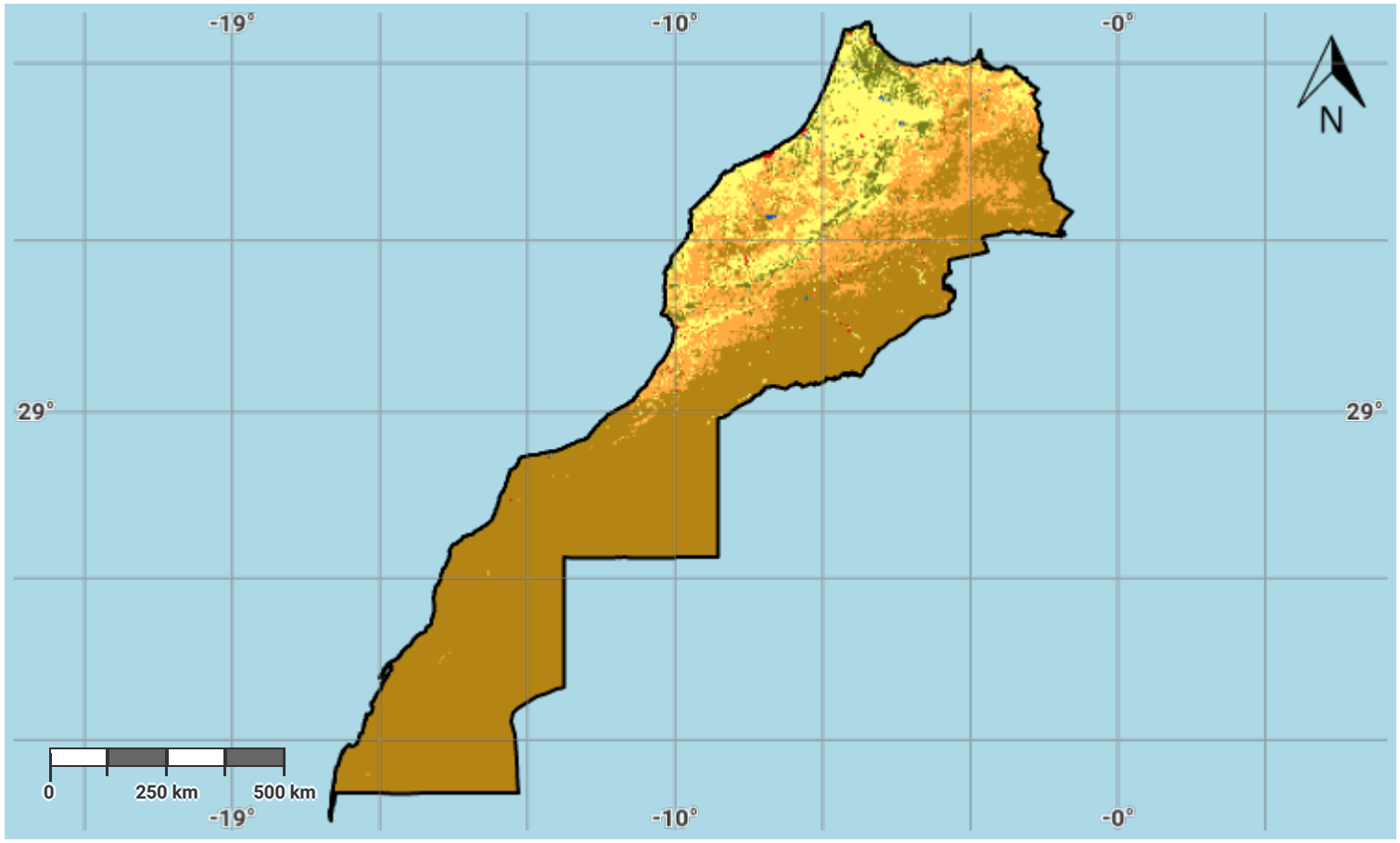
Source Data Credits

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

Morocco – 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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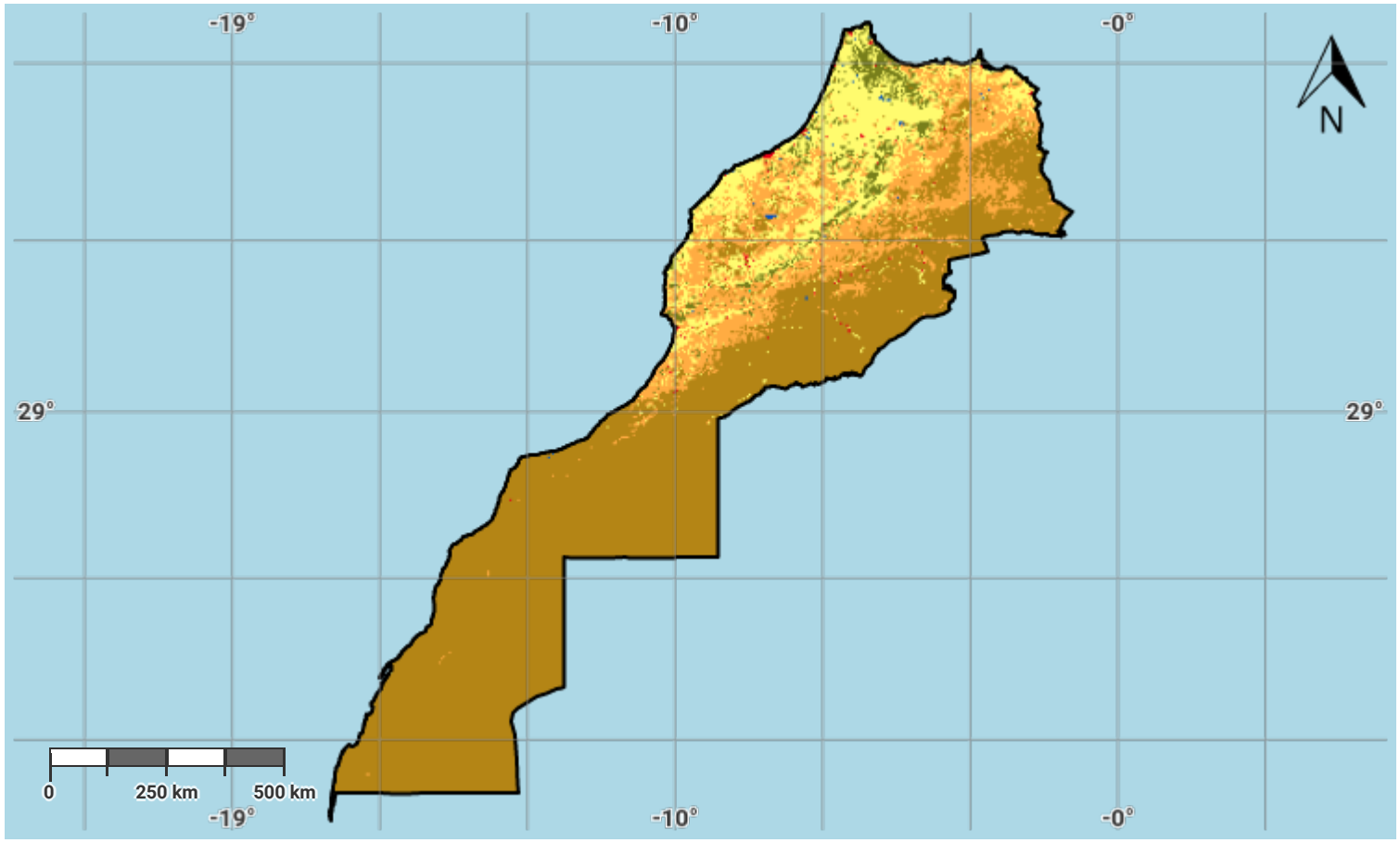
Morocco – SO1-1.M3

Land cover in the latest reporting year



Projection: EPSG:3857 (Web Mercator)

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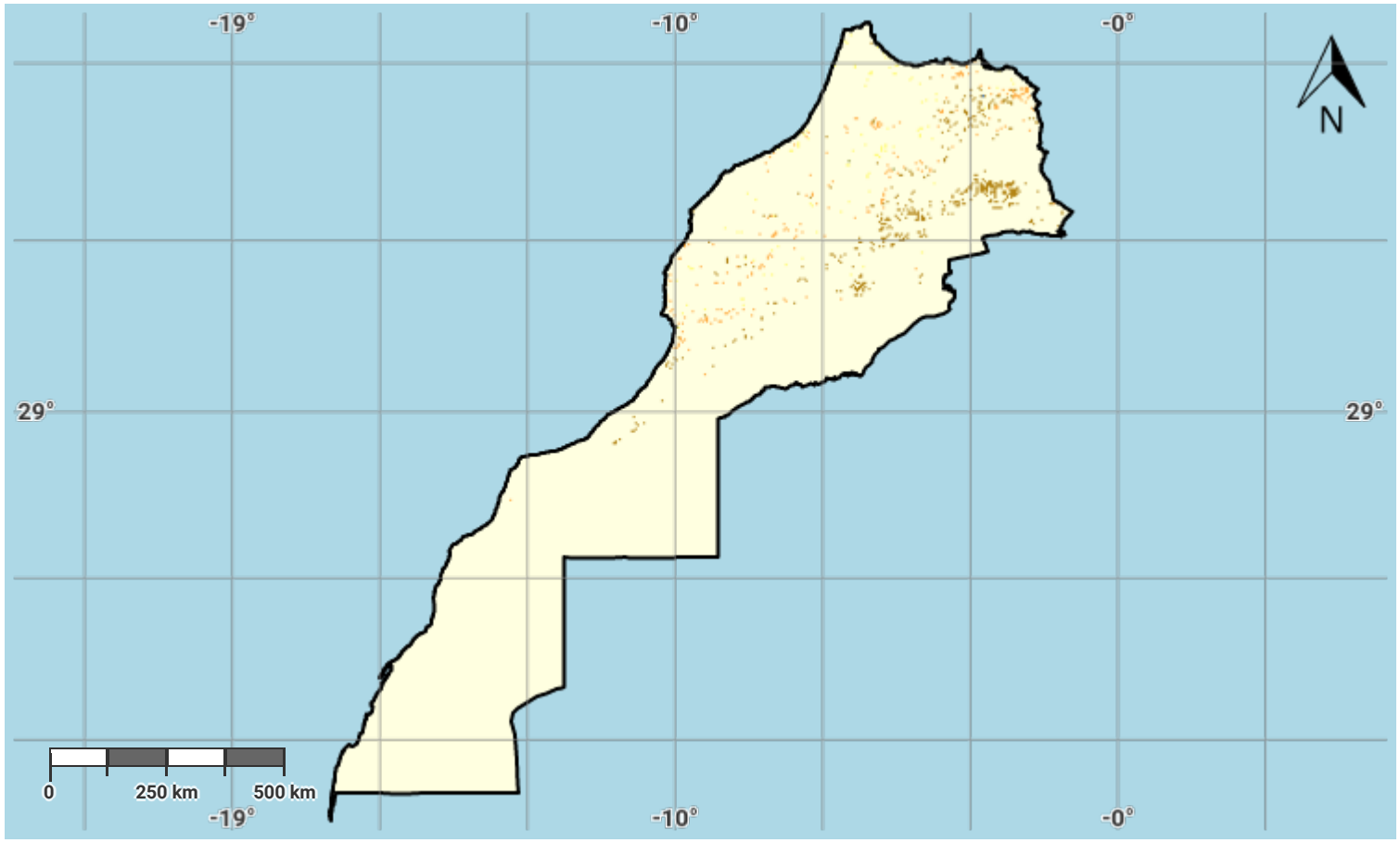
Morocco – SO1-1.M4

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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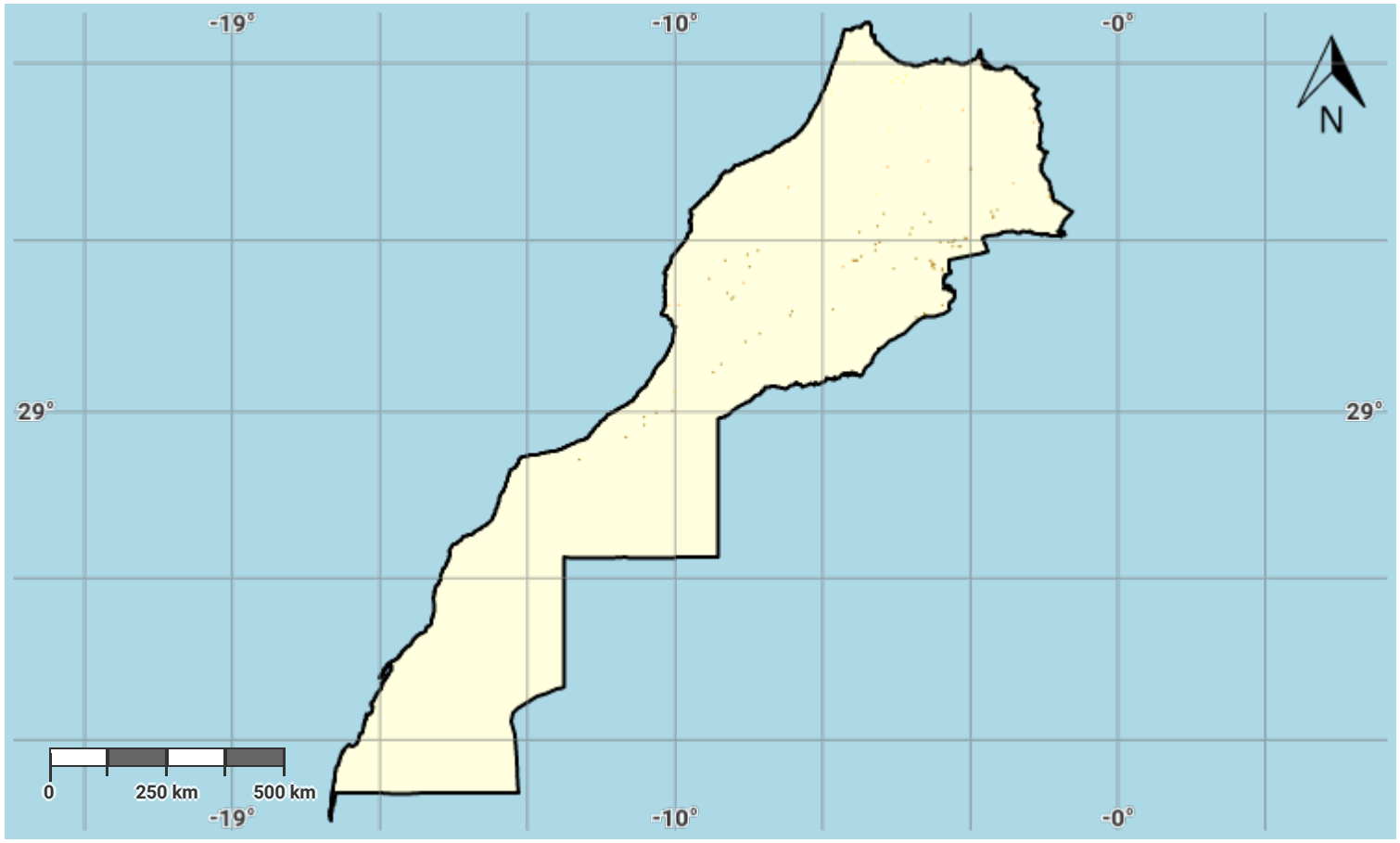
Morocco – SO1-1.M5

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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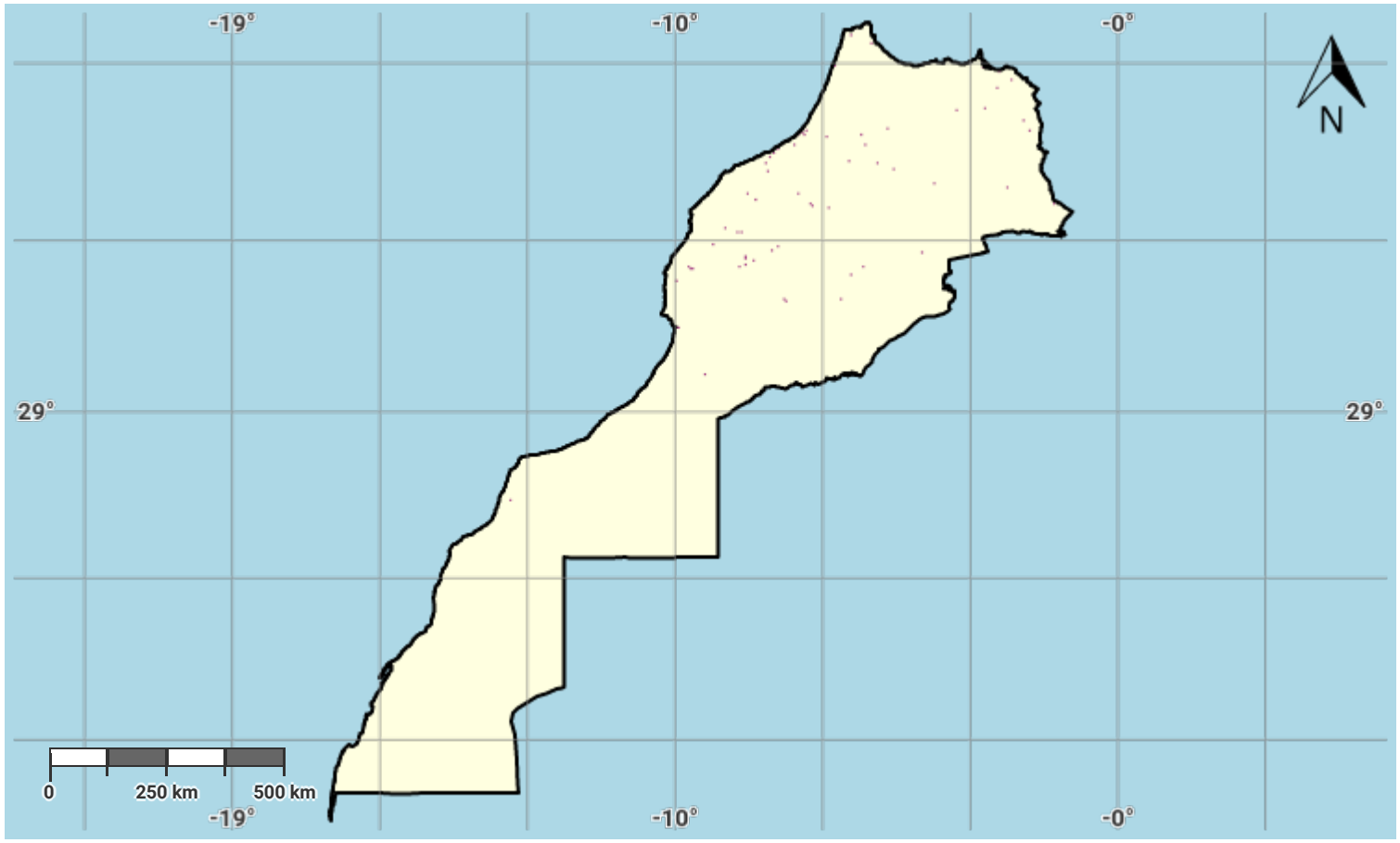
Morocco – SO1-1.M6

Land cover degradation in the baseline period



Legend

- No data
- Degradation
- Not degraded
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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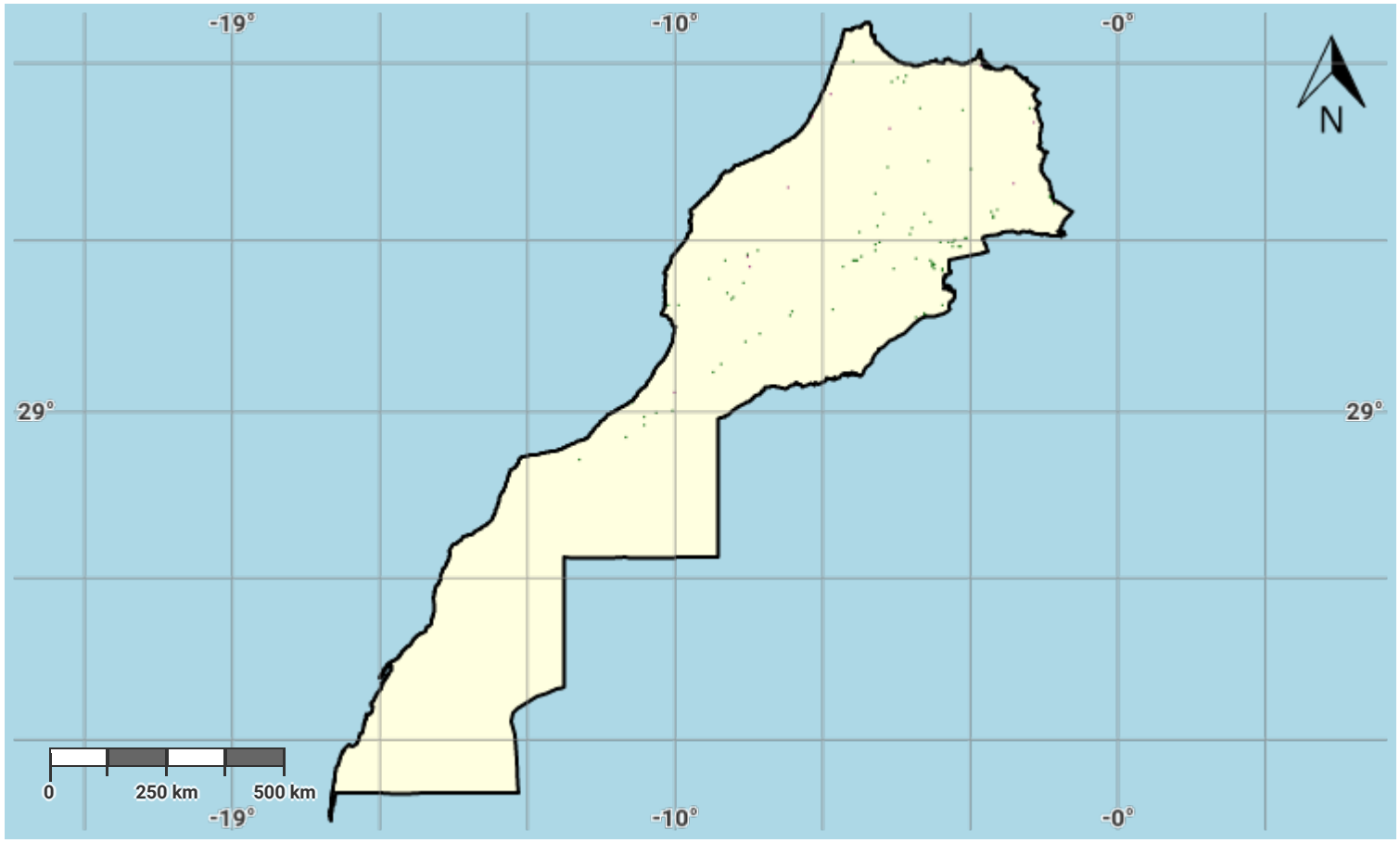
Morocco – SO1-1.M7

Land cover degradation in the reporting period



Legend

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

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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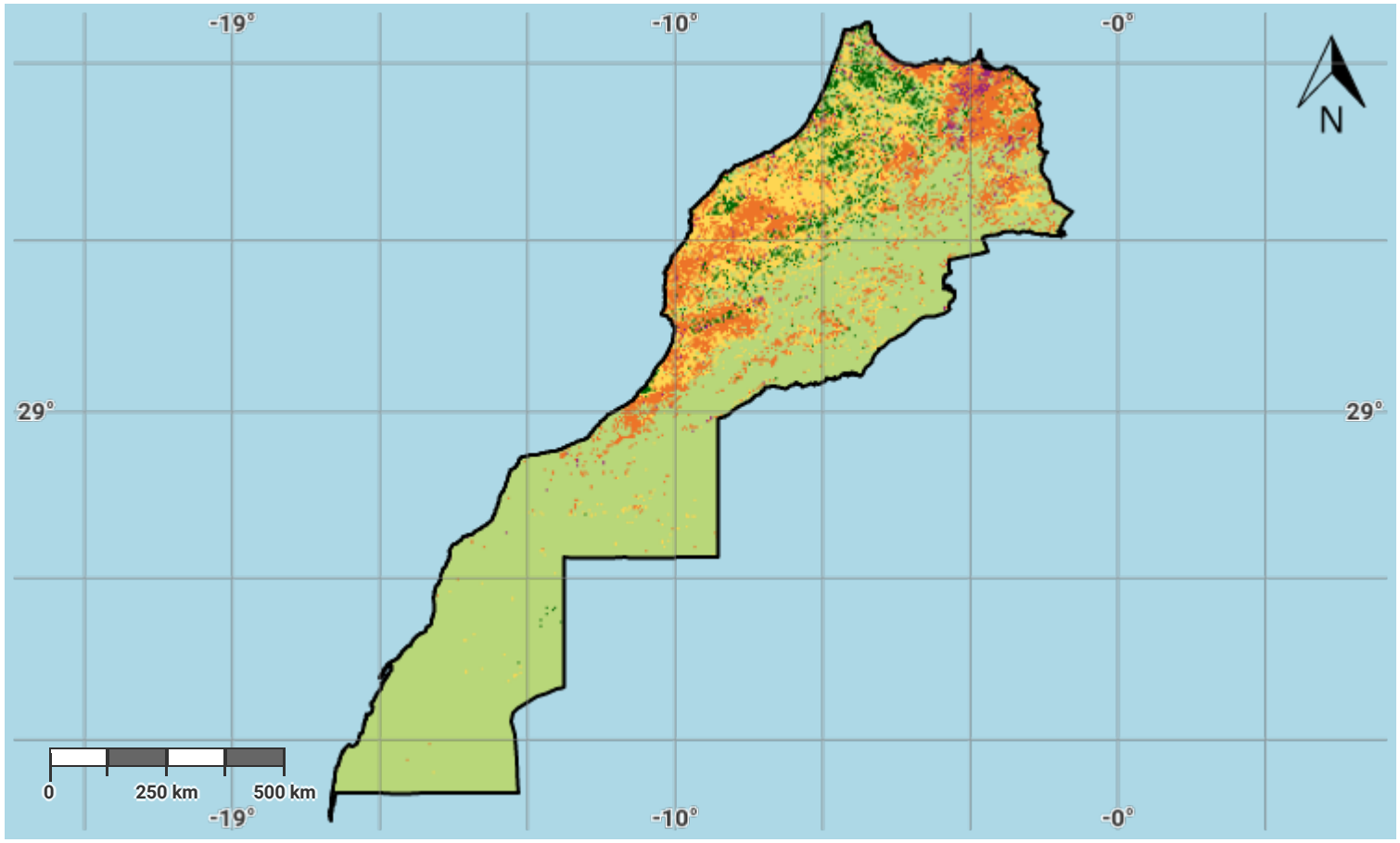
Morocco – SO1-2.M2

Land productivity dynamics in the reporting period



Legend

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

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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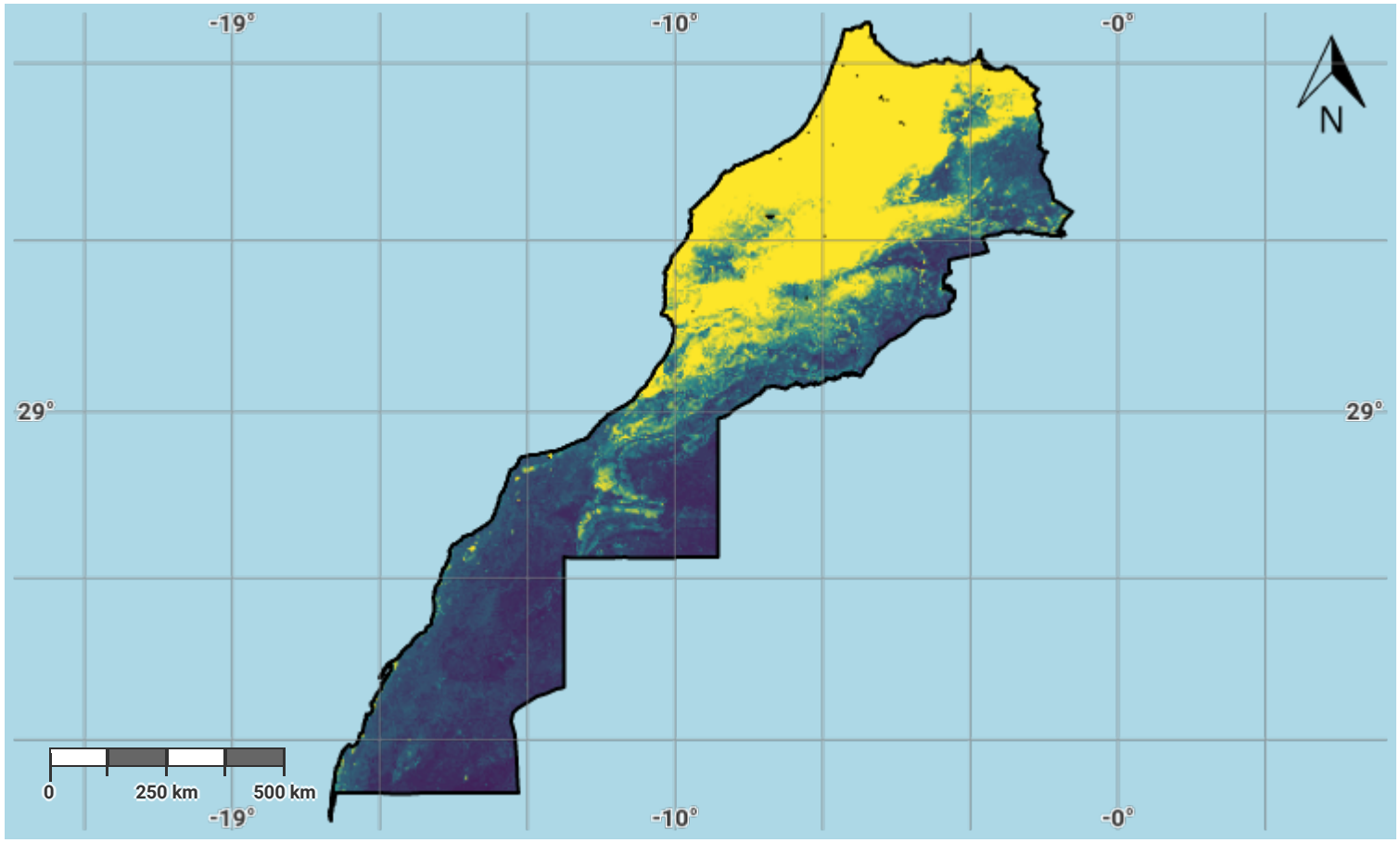
Source Data Credits

- The Land Productivity Dynamics (Reporting) data displayed on this map was provided by the Government of Morocco.

Morocco – SO1-3.M1

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



Projection: EPSG:3857 (Web Mercator)

Disclaimer

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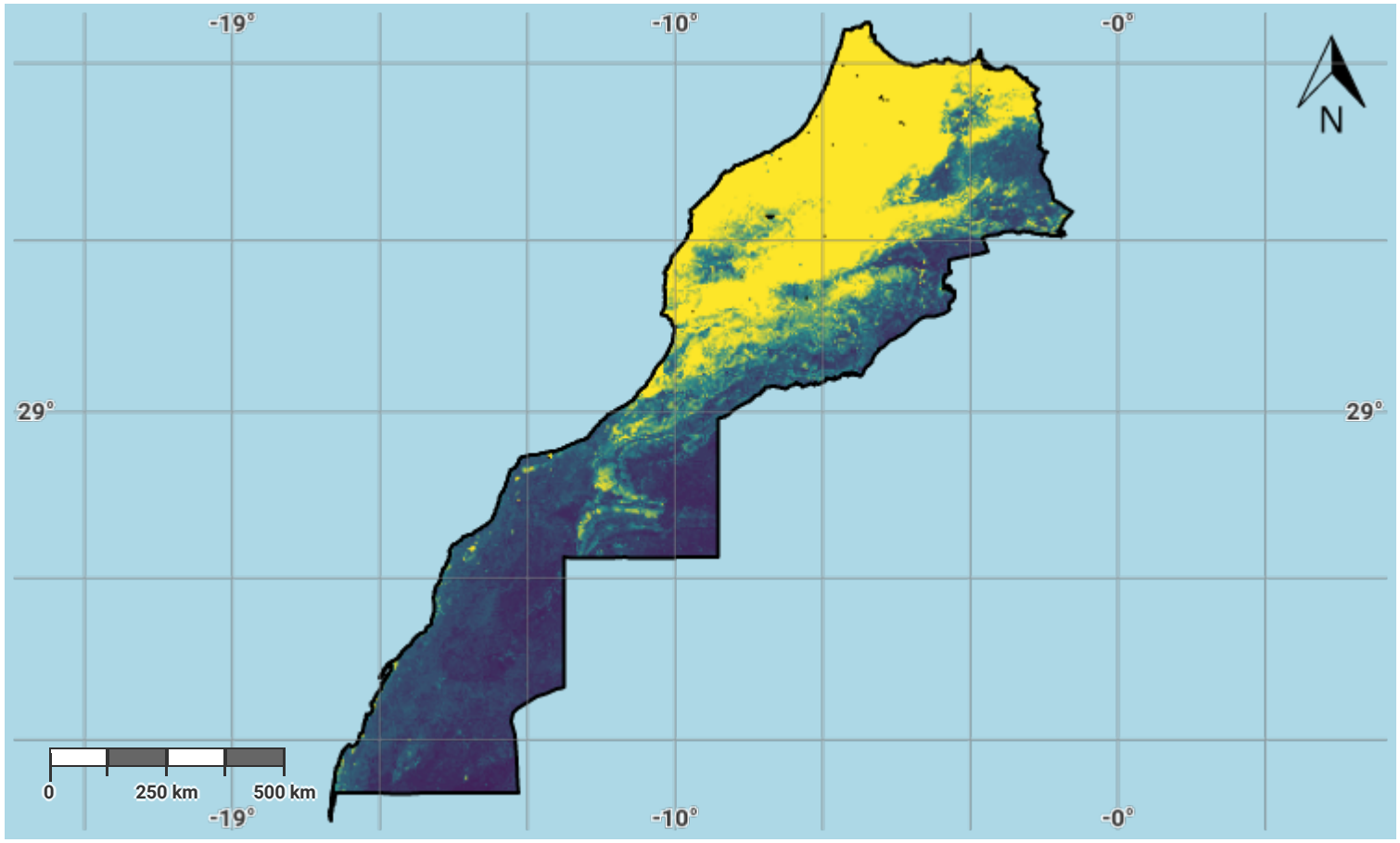
Source Data Credits

- International Soil Reference and Information Centre (ISRIC) SoilGrids250m dataset. URL: https://www.isric.org/explore/soilgrids

Morocco – SO1-3.M2

Soil organic carbon stock in the baseline year



Projection: EPSG:3857 (Web Mercator)

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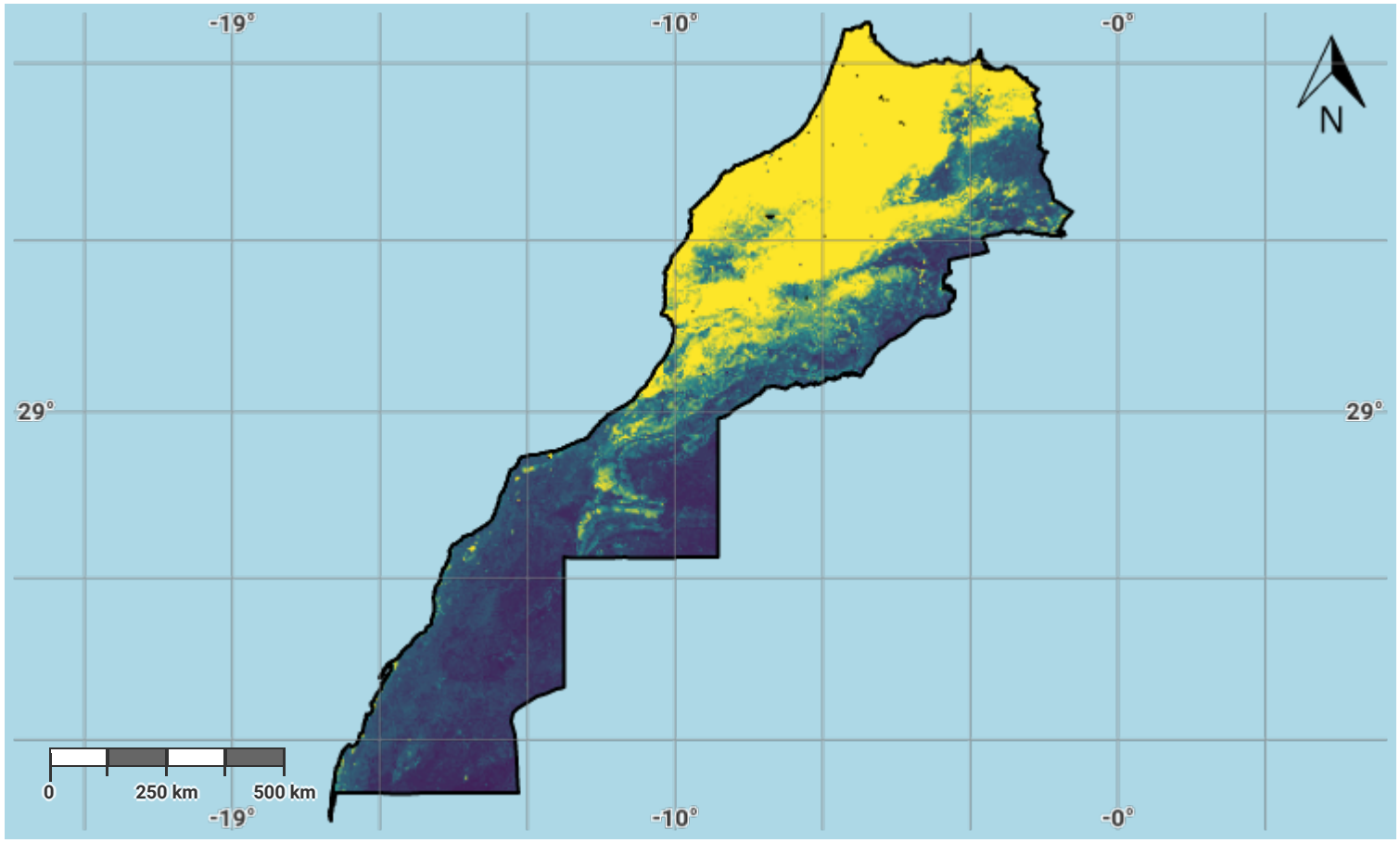
Morocco – SO1-3.M3

Soil organic carbon stock in the latest reporting year



Projection: EPSG:3857 (Web Mercator)

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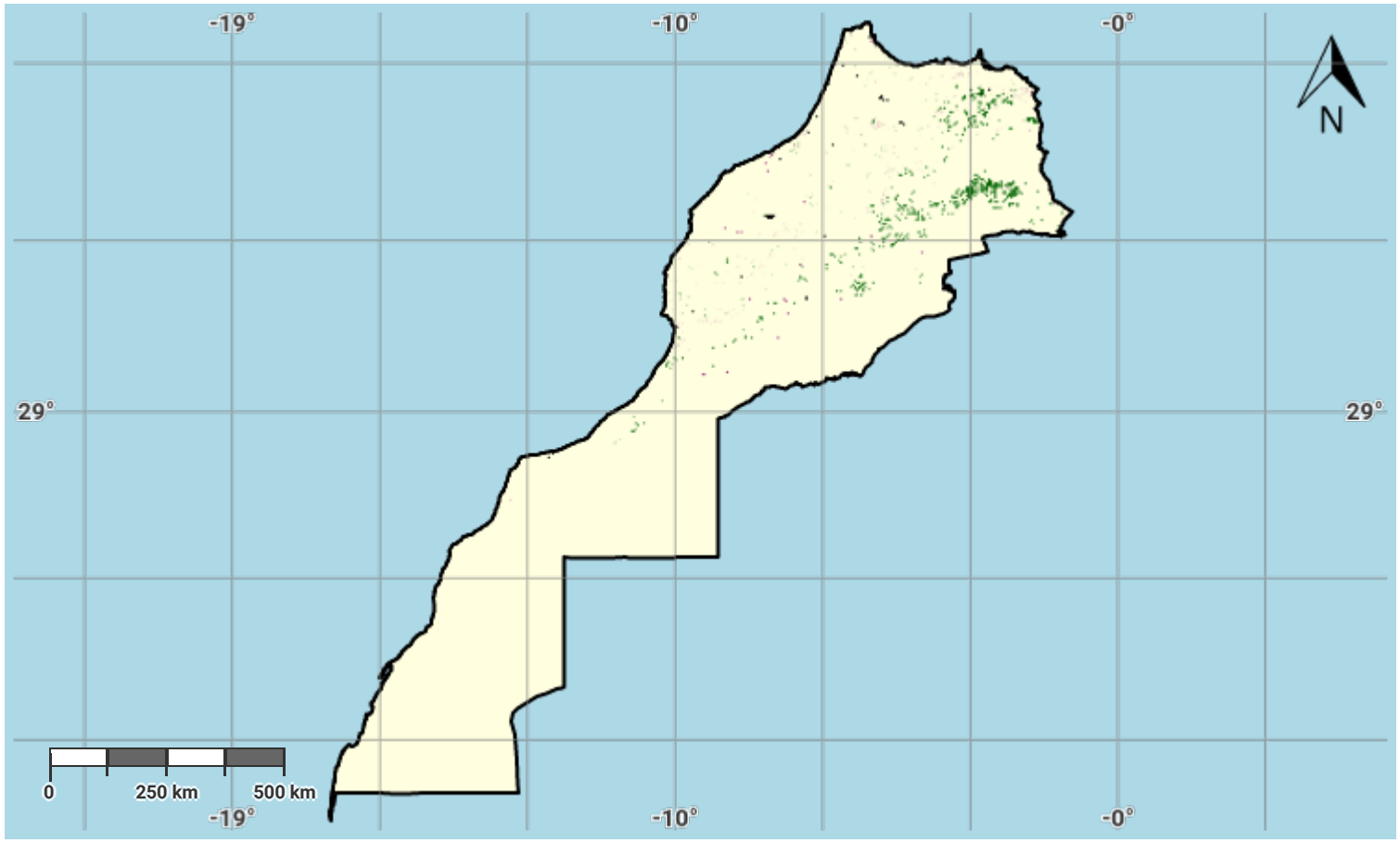
Morocco – SO1-3.M4

Change in soil organic carbon stock in the baseline period



Legend

- No data
- -70.0 - 0 t/ha
- 0 - 70.0 t/ha
- International Boundary

Projection: EPSG:3857 (Web Mercator)

Disclaimer

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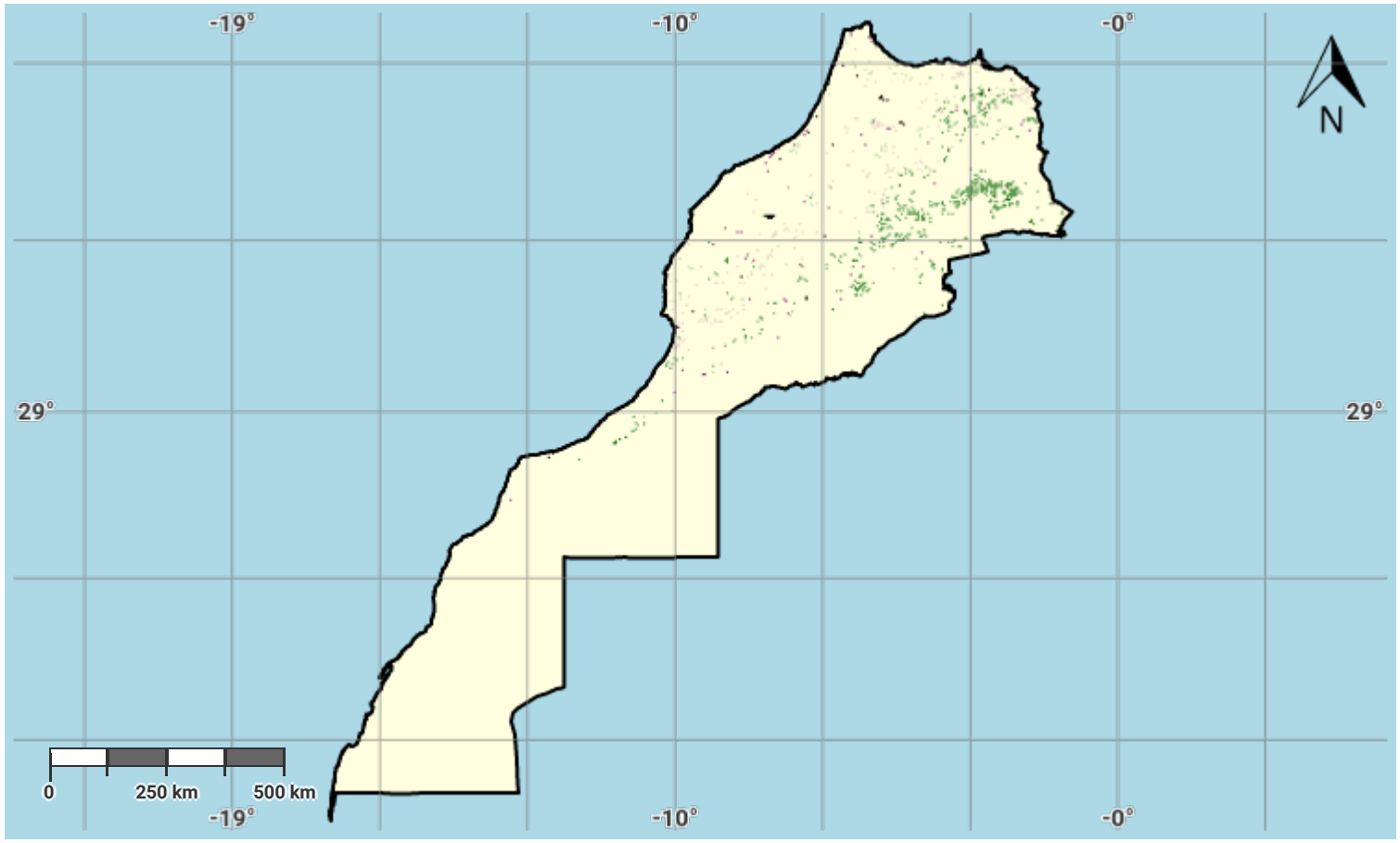
Morocco – SO1-3.M5

Change in soil organic carbon stock in the reporting period



Legend

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

Projection: EPSG:3857 (Web Mercator)

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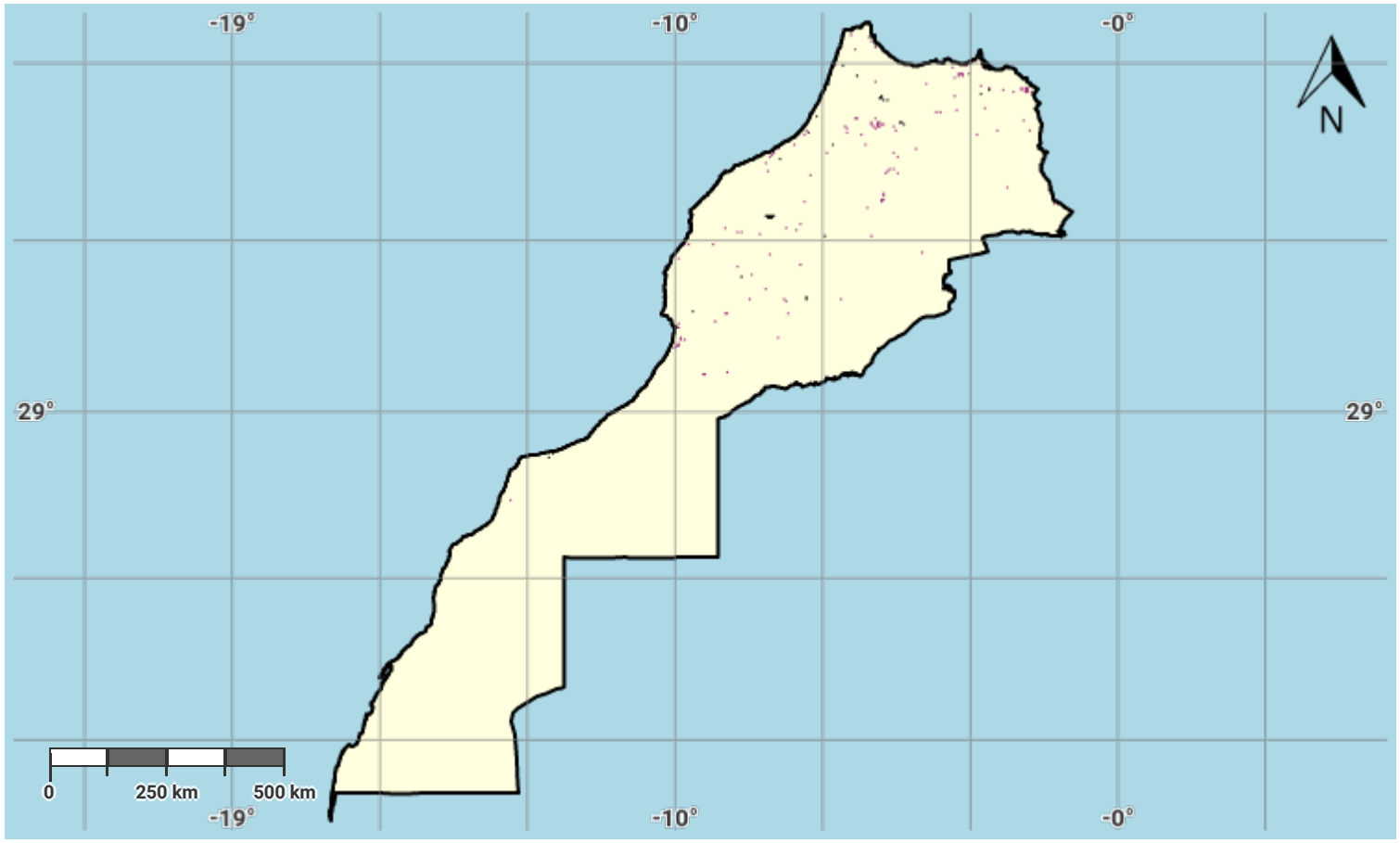
Morocco – SO1-3.M6

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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Source Data Credits

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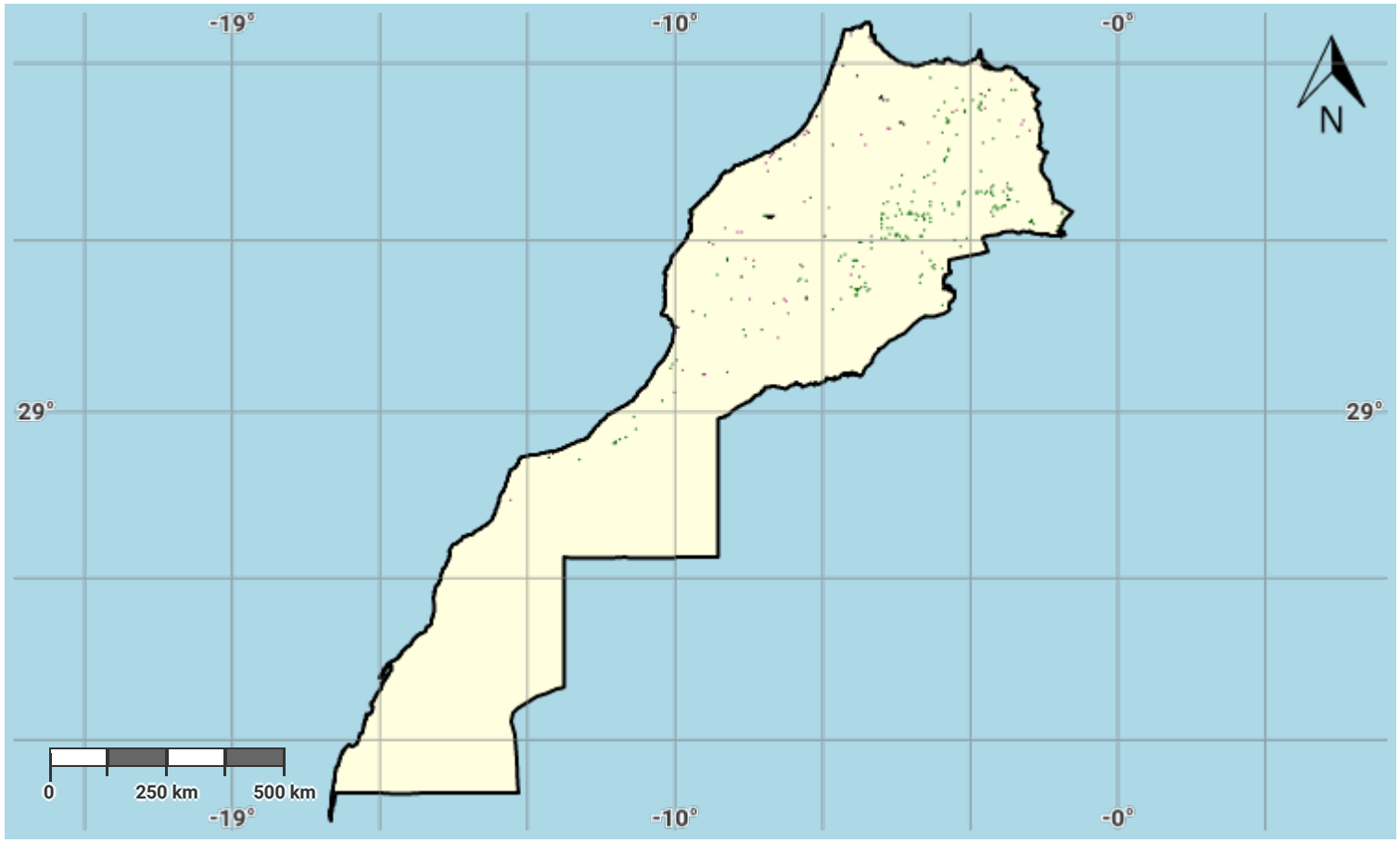
Morocco – SO1-3.M7

Soil organic carbon degradation in the reporting period



Projection: EPSG:3857 (Web Mercator)

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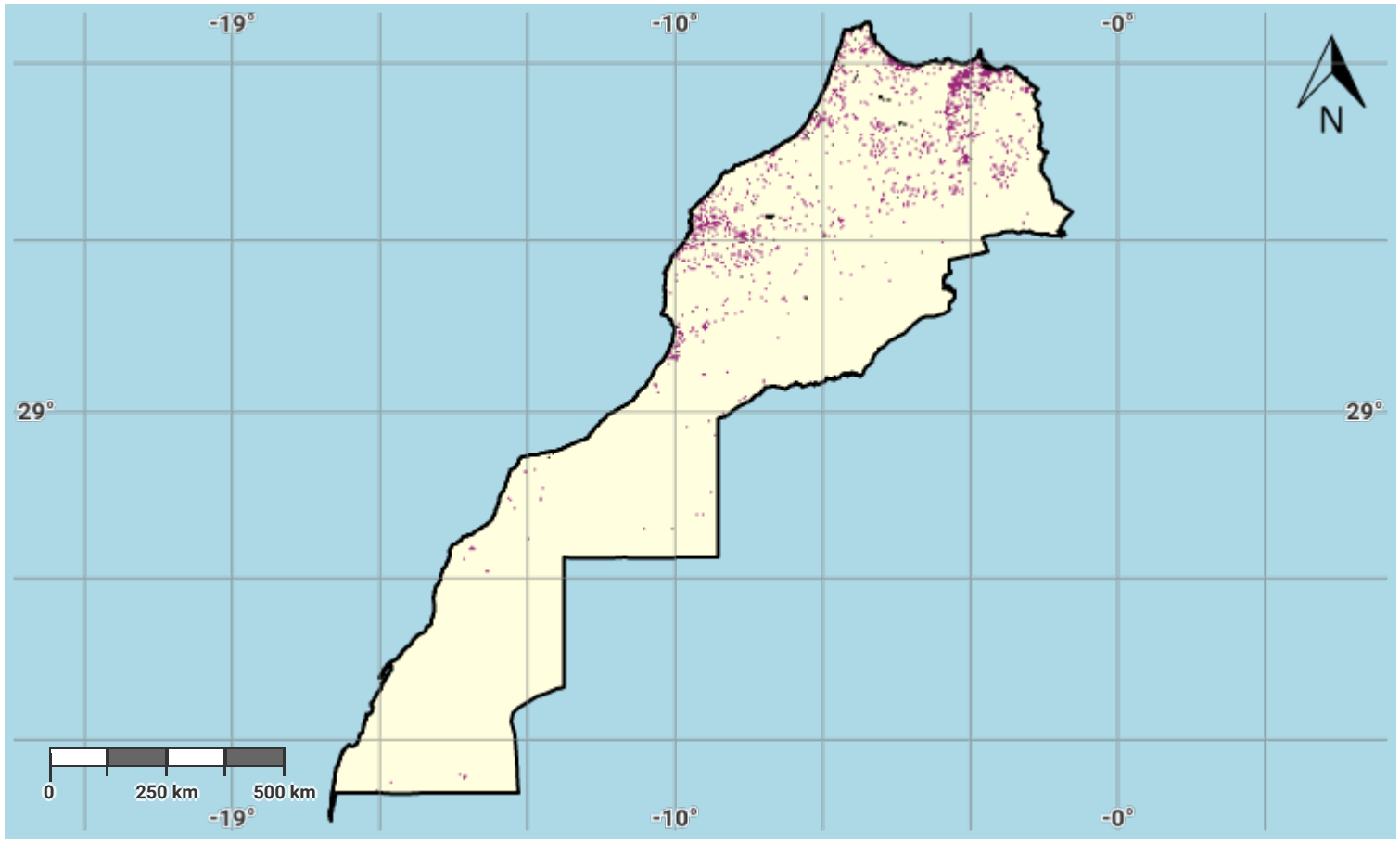
Source Data Credits

- International Soil Reference and Information Centre (ISRIC) SoilGrids250m dataset. URL: https://www.isric.org/explore/soilgrids

Morocco – SO1-4.M1

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



Projection: EPSG:3857 (Web Mercator)

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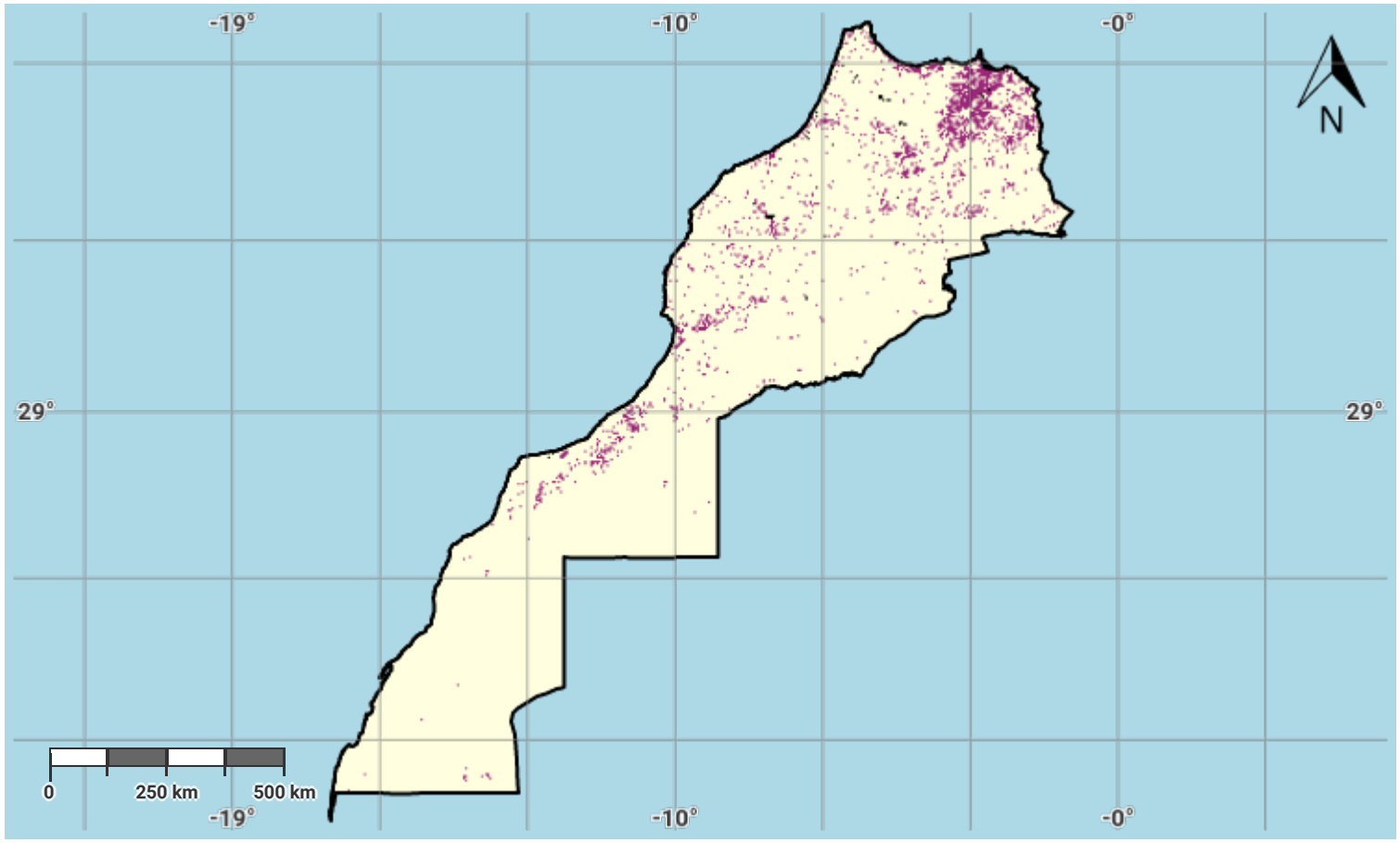
Source Data Credits

- 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

Morocco – 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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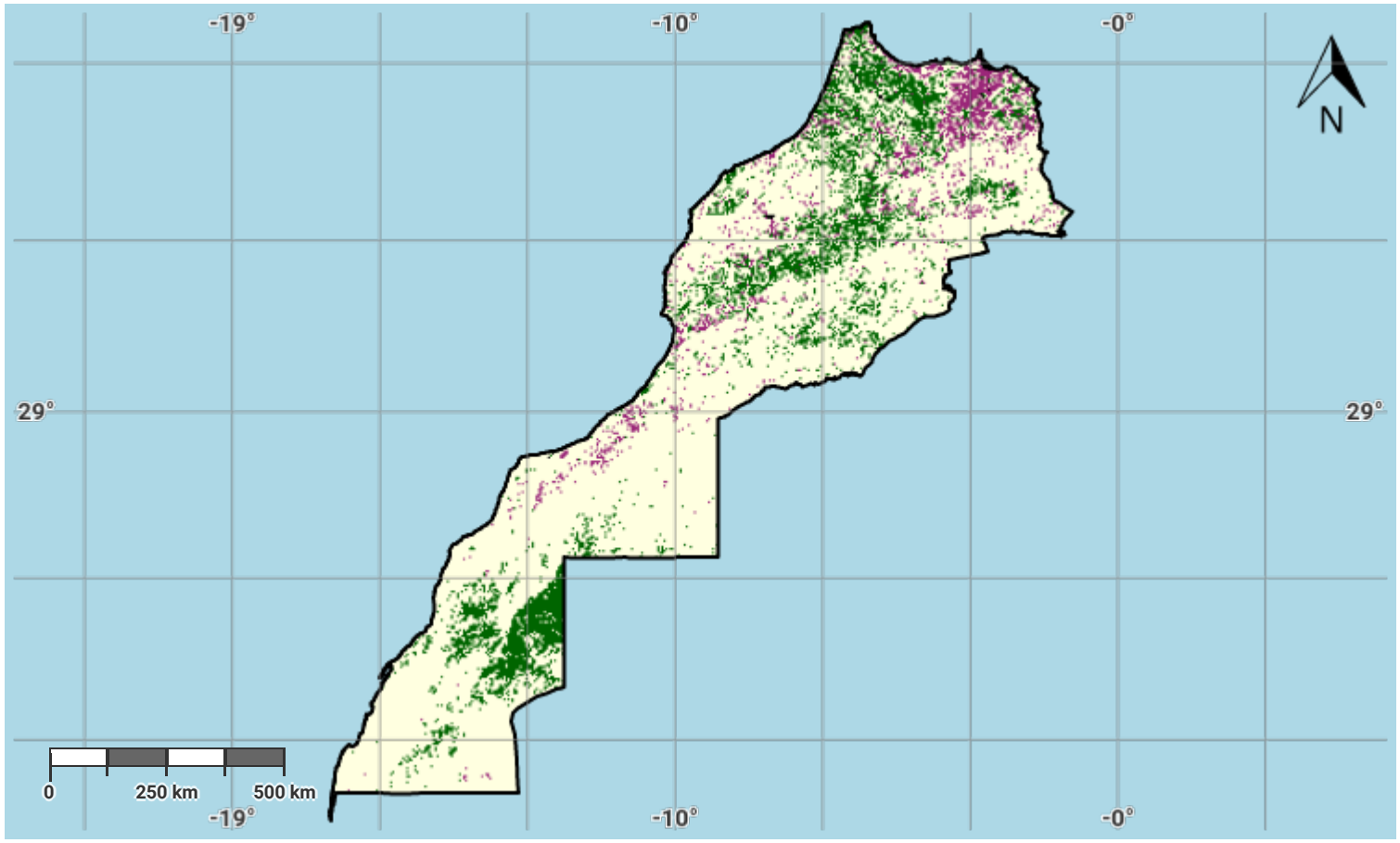
Morocco – SO1-4.M3

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



Projection: EPSG:3857 (Web Mercator)

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