

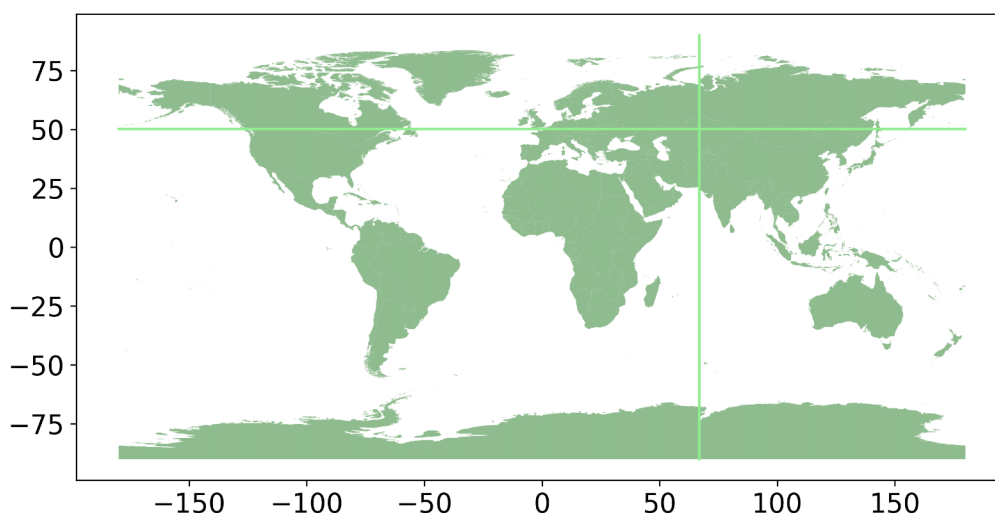
Natural Capital Location Report (Terrestrial)

Sitename: 53_53_1092500

Lat: 50.25

Lon: 66.917

Country: Kazakhstan



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The Natural Capital Location Report (Terrestrial) is a report that evaluates the area under interest in terms of biodiversity importance, ecosystem change (degradation), water risk, etc. The report shows the results of the analyses that corresponds to L (Locate) of the LEAP approach presented by the TNFD (Task Force on Nature-related Financial Disclosures).

Sitename: 53_53_1092500

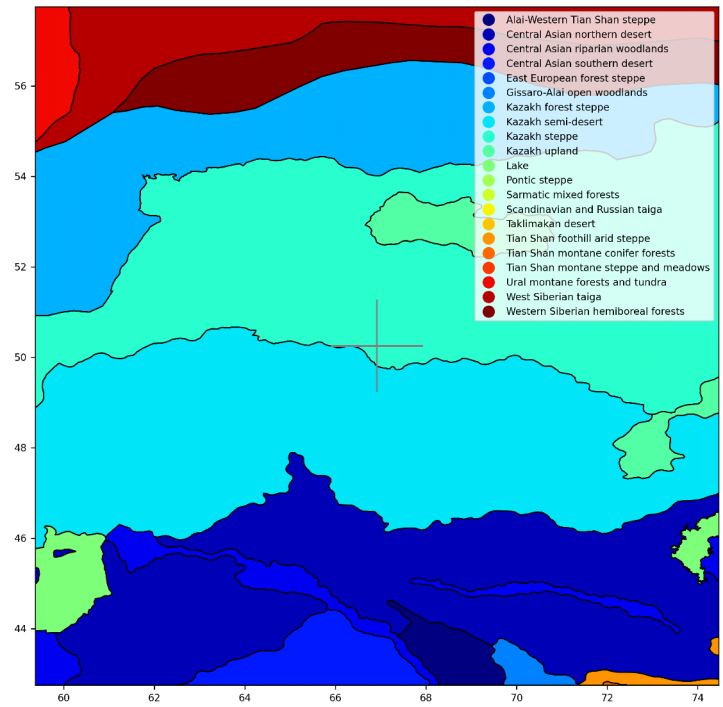
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ECOREGION

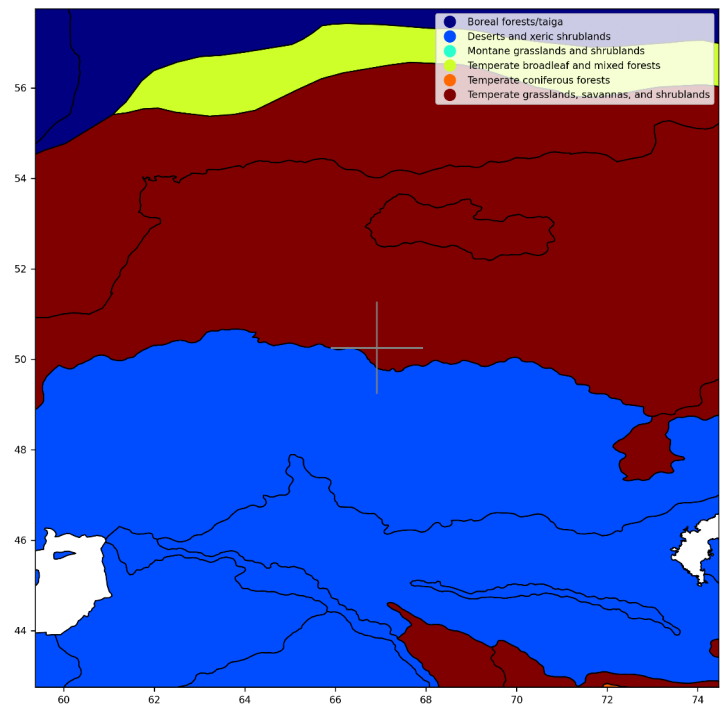
**Dominant ecoregion around
this location is
[Kazakh semi-desert]**



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BIOME TYPE

**Dominant biome type around
this location is
[Deserts and xeric shrublands]**



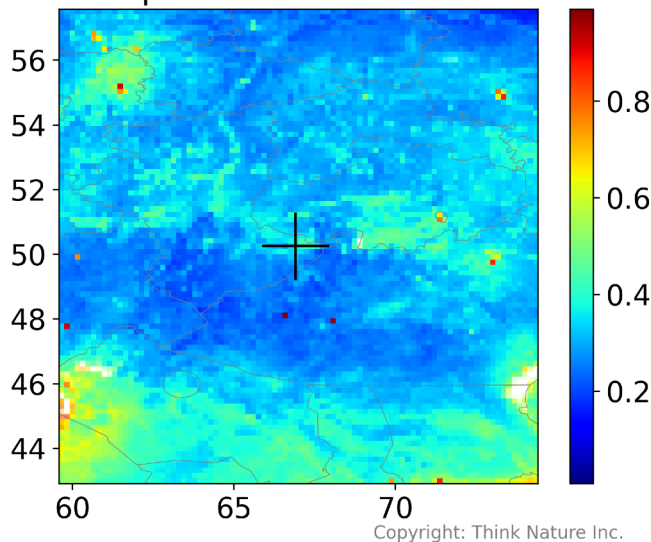
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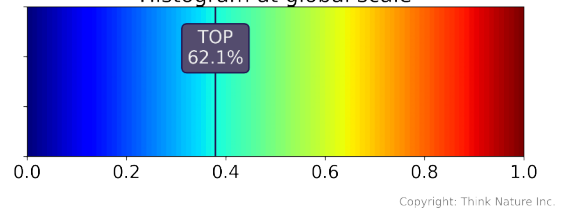
1. Terrestrial Biodiversity Importance

Global level: [MODERATELY LOW]
 National level: [INTERMEDIATE]

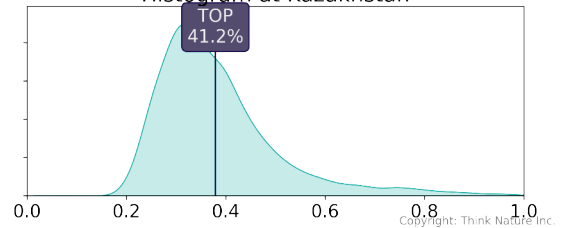
Terrestrial Biodiversity Importance
 Map around the location



Terrestrial Biodiversity Importance
 Histogram at global scale



Terrestrial Biodiversity Importance
 Histogram at Kazakhstan



The site here has #TOP 62.1% rank at the global scale, meaning [MODERATELY LOW] importance of terrestrial biodiversity. Among Kazakhstan, the site here has #TOP 41.2% rank at national level, meaning [INTERMEDIATE] importance of terrestrial biodiversity.

Terrestrial Biodiversity Importance:

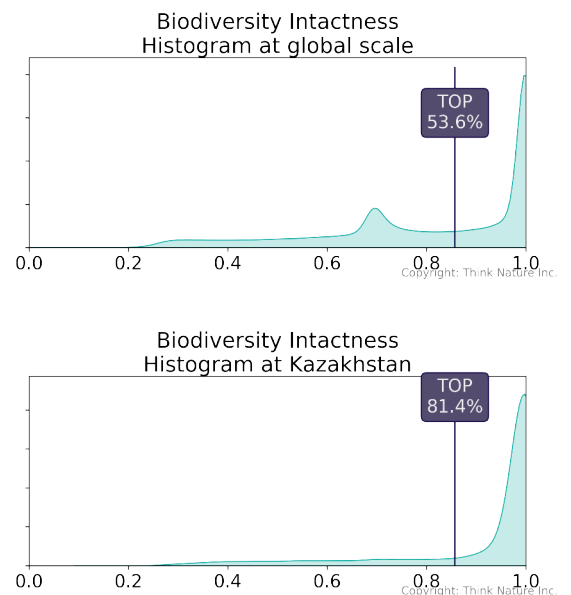
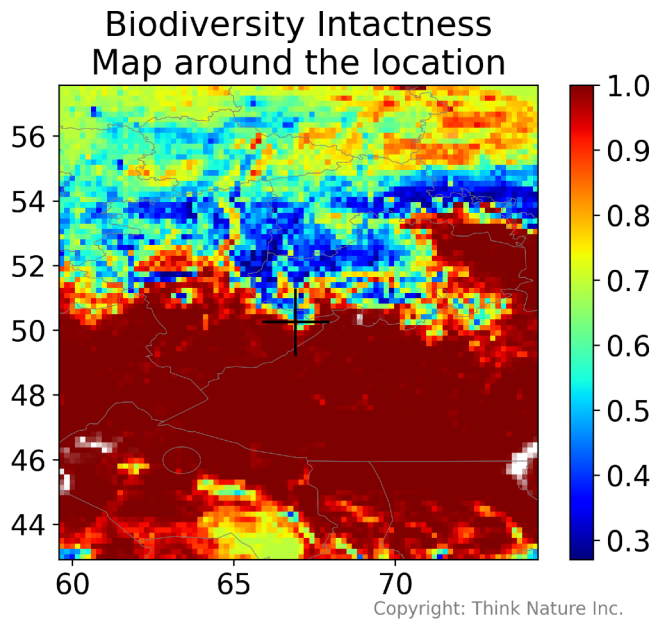
An indicator of the importance of site's biodiversity in terms of extinction risk reduction, calculated using the species composition of +120,000 vertebrate and tree species, ranging from 0 to 1, with higher values indicating greater importance.

Min	Max	Unit
0	1	[Score]

Site name: 53_53_1092500
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Biodiversity Intactness

Global level: [INTERMEDIATE]
 National level: [LOW]



The site here has #TOP 53.6% rank at the global scale, meaning [INTERMEDIATE] intactness of ecosystem.
 Among Kazakhstan, the site here has #TOP 81.4% rank at national level, meaning [LOW] intactness of ecosystem.

Biodiversity Intactness:

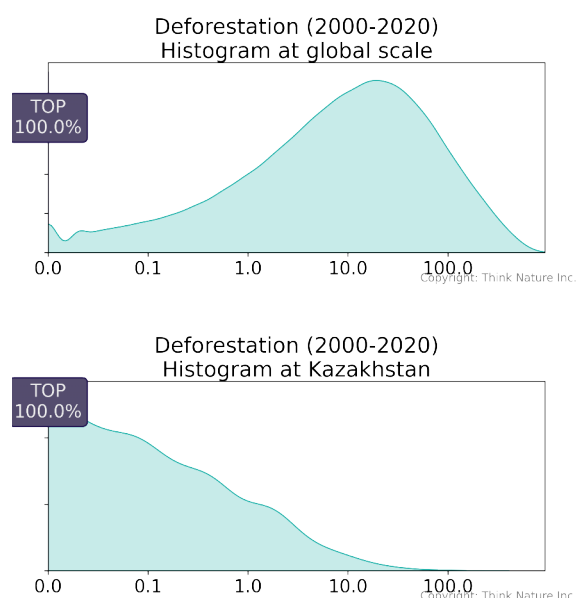
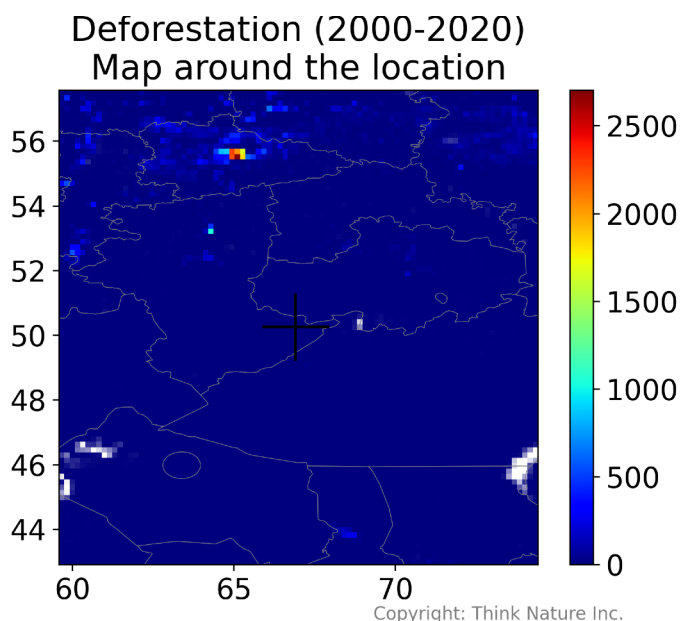
An index that quantifies the degree of modification of ecosystems due to land use. Higher values indicate a higher degree of ecosystem integrity.

Min	Max	Unit
0	1	[Score]

Sitename: 53_53_1092500
 Lat: 50.25
 Lon: 66.917
 Country: Kazakhstan

3. Deforestation (2000-2020)

Global level: **[VERY LOW]**
 National level: **[VERY LOW]**



The site here has **#TOP 100.0%** rank at the global scale, meaning **[VERY LOW]** decrease in forest area. The percentile rank is calculated so that high rank mean a rapid decline of forest area, suggesting a risk of deforestation. Among Kazakhstan, the site here has **#TOP 100.0%** rank at national level, meaning **[VERY LOW]** deforestation.

Deforestation (2000-2020):

The amount of decrease in area occupied by forests over the past 20 years in the percentage of each grid (approximately 15 km in circumference). Greater values correspond to high risk of deforestation. Values for grids with increase in forest area are set to 0 (no net deforestation). Values are represented in basis points (‰).

Min	Max	Unit
0	10000	‰

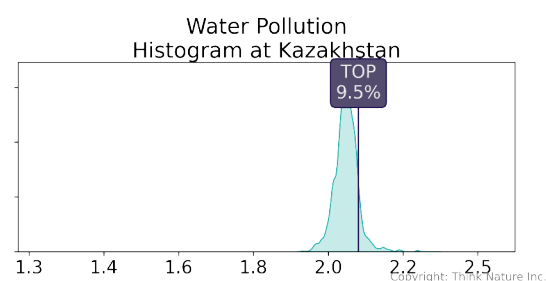
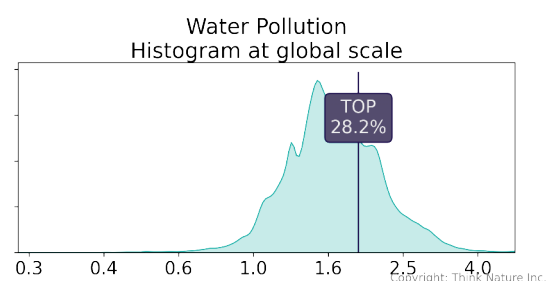
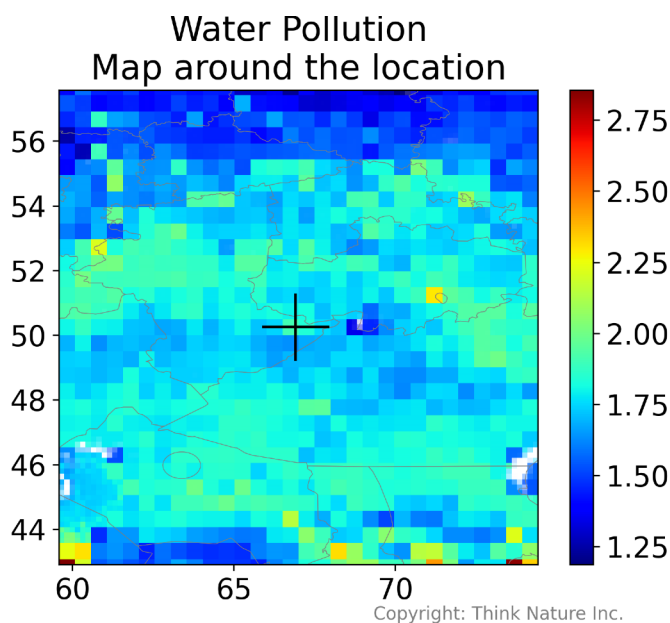
Site name: 53_53_1092500

Lat: 50.25

Lon: 66.917

Country: Kazakhstan

4. Water Pollution

Global level: [MODERATELY HIGH]**National level: [VERY HIGH]**

The site here has #TOP 28.2% rank at the global scale, meaning [MODERATELY HIGH] level of water pollution. Among Kazakhstan, the site here has #TOP 9.5% rank at national level, meaning [VERY HIGH] level of water pollution.

Water Pollution:

The value of BOD, a comprehensive indicator of overall water quality; a value below 2 indicates high quality water, such as a mountain stream.

Min	Max	Unit
0	5	mg-O2/L

Site name: 53_53_1092500

Lat: 50.25

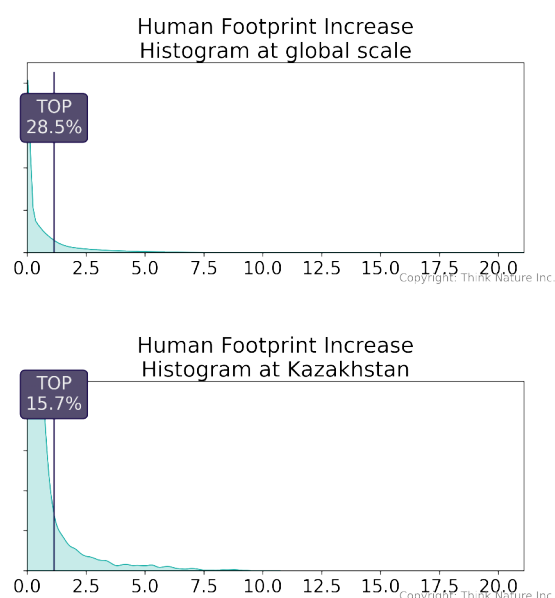
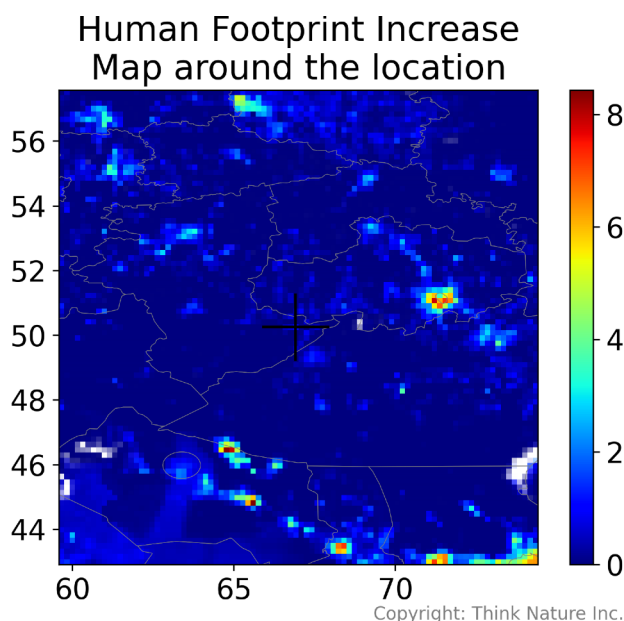
Lon: 66.917

Country: Kazakhstan

5. Human Footprint Increase

Global level: [MODERATELY HIGH]

National level: [HIGH]



The site here has #TOP 28.5% rank at the global scale, meaning [MODERATELY HIGH] increase in human footprint. Greater value indicates greater increase in footprint, so the high rank means the risk of human pressure to the environment. Among Kazakhstan, the site here has #TOP 15.7% rank at national level, meaning [HIGH] risk of increased human pressure.

Human Footprint Increase:

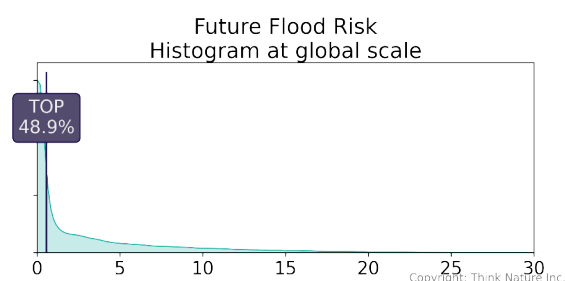
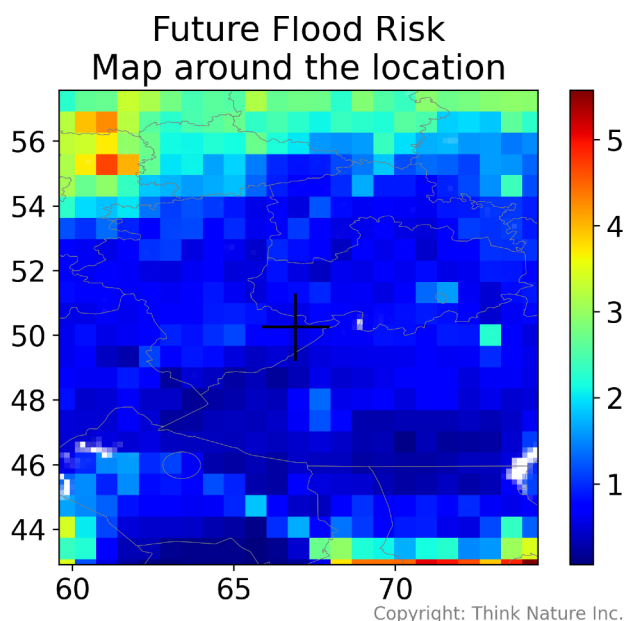
The values represents increase in Human Footprint Index, an index that integrates human pressure on the environment and scores it on a scale from 0 to 50, from 2000 to 2019. Grids that show a decrease in this index are assigned a value of 0, indicating (net reduction in human footprint).

Min	Max	Unit
0	50	[Score]

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6. Future Flood Risk

Global level: [INTERMEDIATE]
 National level: [MODERATELY LOW]



The site here has #TOP 48.9% rank at the global scale, meaning [INTERMEDIATE] risk of flooding.
 Among Kazakhstan, the site here has #TOP 72.2% rank at national level, meaning [MODERATELY LOW] risk of flooding.

Future Flood Risk:

Risk value of flood frequency under the climate for the next 20 years predicted from the frequency of past flood damage

Min	Max	Unit
0	30	[Score]

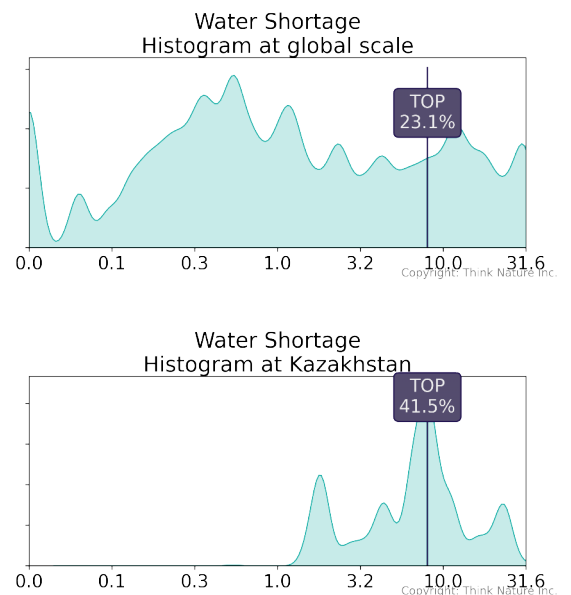
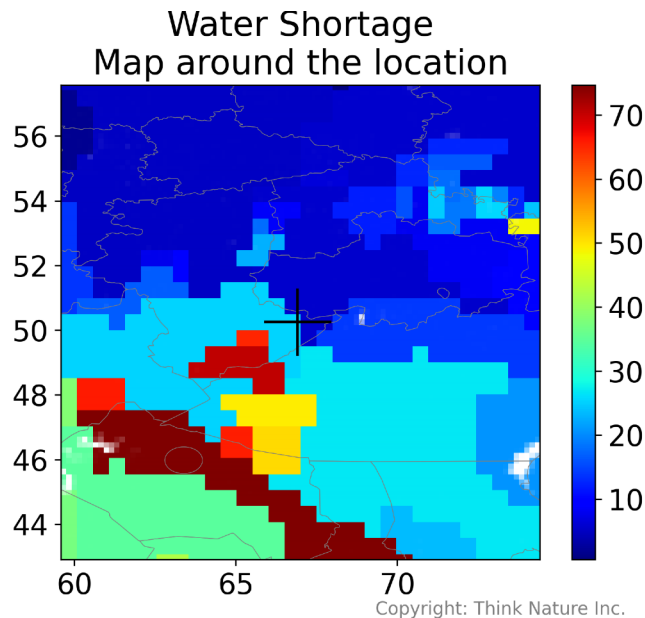
Sitename: 53_53_1092500

Lat: 50.25

Lon: 66.917

Country: Kazakhstan

7. Water Shortage

Global level: [HIGH]**National level: [INTERMEDIATE]**

The site here has #TOP 23.1% rank at the global scale, meaning [HIGH] tendency to face water shortage. Among Kazakhstan, the site here has #TOP 41.5% rank at national level, meaning [INTERMEDIATE] tendency to face water shortage.

Water Shortage:

How little water is available; a value of 1 indicates that there is as much available water as the global average, while a value of 10 indicates that there is only 1/10th of the global average.

Min	Max	Unit
0	100	[Score]

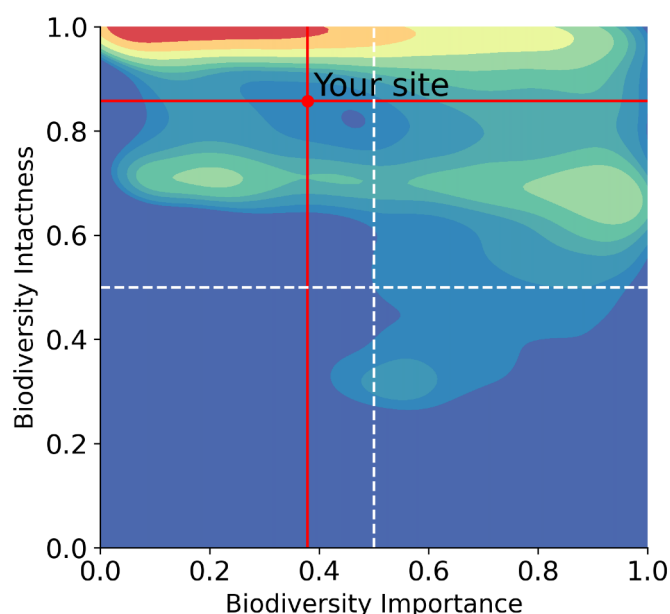
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Global context

In the global context, Biodiversity importance of the location is [Low], and Biodiversity Intactness of the location is [High].

Thus, the areas around focused site are suitable for uses of natural commodities and ecosystem services (e.g. renewable energy plants).

Background density plot shows the distribution of points in importance-intactness axes in global level with red means high density and blue low.



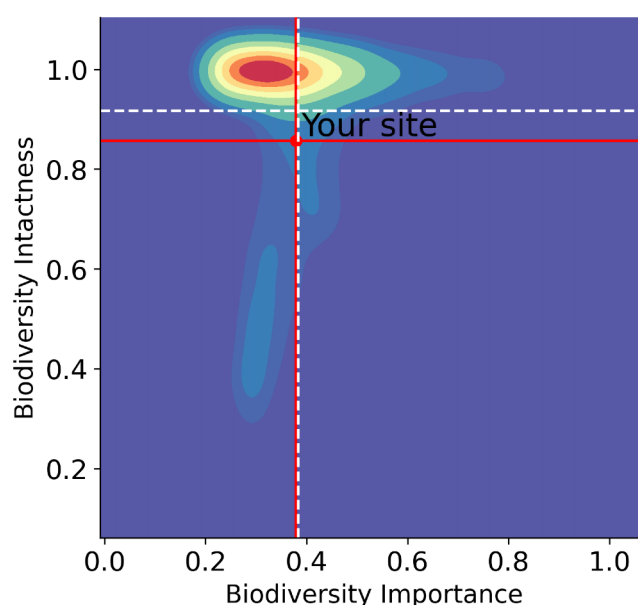
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National context

In the national context, Biodiversity importance of the location is [Low], and Biodiversity Intactness of the location is [Low].

Thus, the areas around focused site have large potential for improvement in natural areas through restoration activities.

Background density plot shows the distribution of points in importance-intactness axes in national level with red means high density and blue low. Note that white broken lines show the national average of the two metrics.



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Sitenam: 53_53_1092500

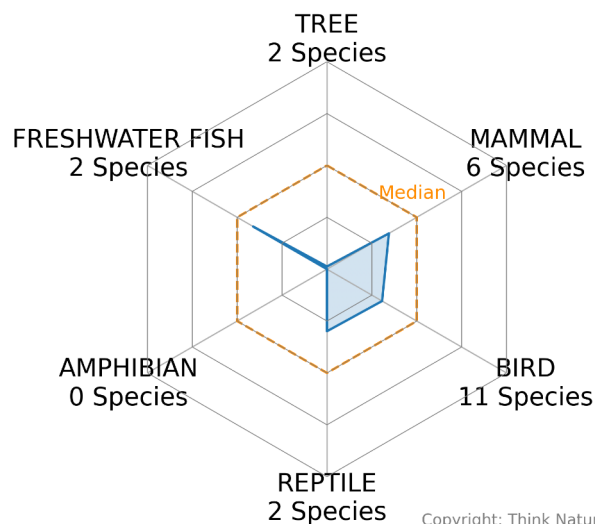
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Lon: 66.917

Country: Kazakhstan

SPECIES RICHNESS BY TAXONOMIC GROUPS - DETAILED OPTION

This locality is in an under-researched area where information on biodiversity is extremely scarce. Although our biodiversity datasets make the most of field records of species collected by researchers all over the world, species richness estimation and biodiversity importance indicator for this locality might be underestimated.



BIODIVERSITY IMPORTANCE BY TAXONOMIC GROUPS - DETAILED OPTION

This locality is in an under-researched area where information on biodiversity is extremely scarce. Although our biodiversity datasets make the most of field records of species collected by researchers all over the world, species richness estimation and biodiversity importance indicator for this locality might be underestimated.

