

# Layer Styling

## Introduction


A style defines how underlying data gets visualized. When dealing with raster data this usually means having a value-color mapping, either categorized or graduated.

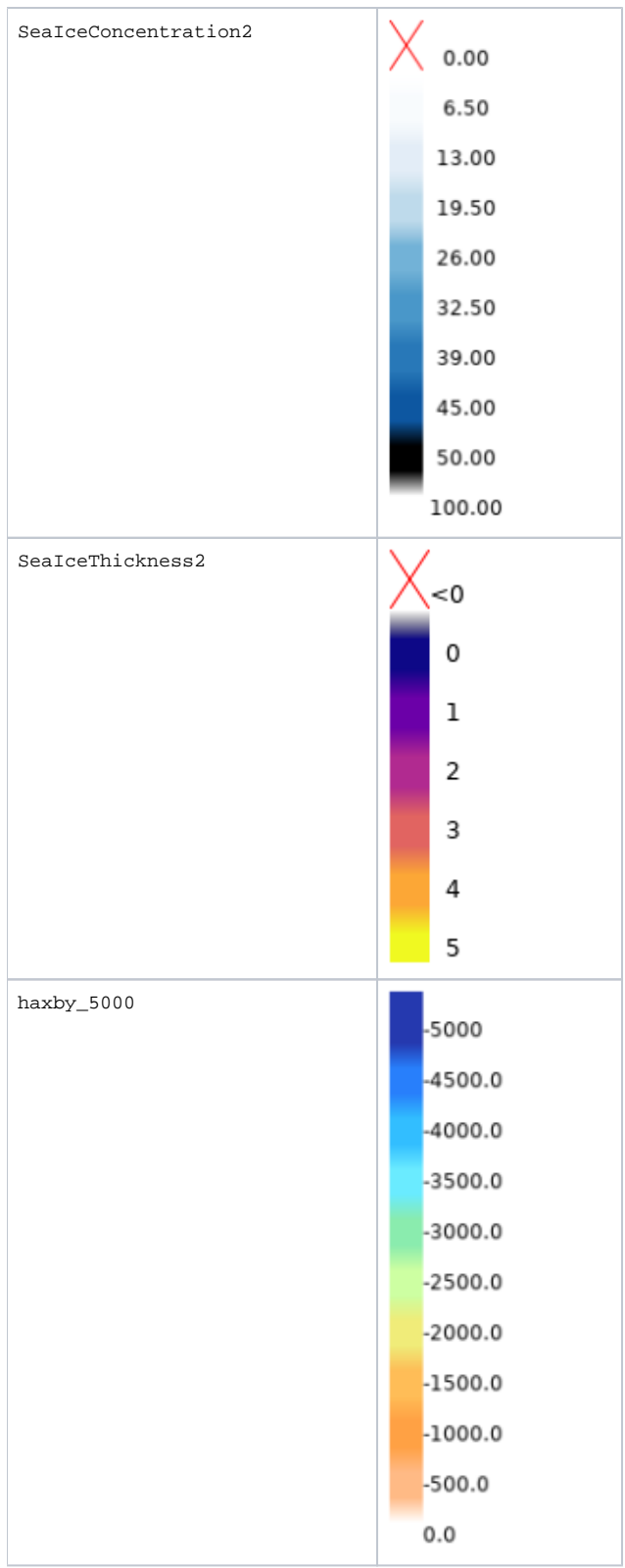
It is possible to refer to a specific style when sending a GetMap request to a Web Map Service (WMS), resulting in accordingly rendered images. If no style is specified, a default style will be used.

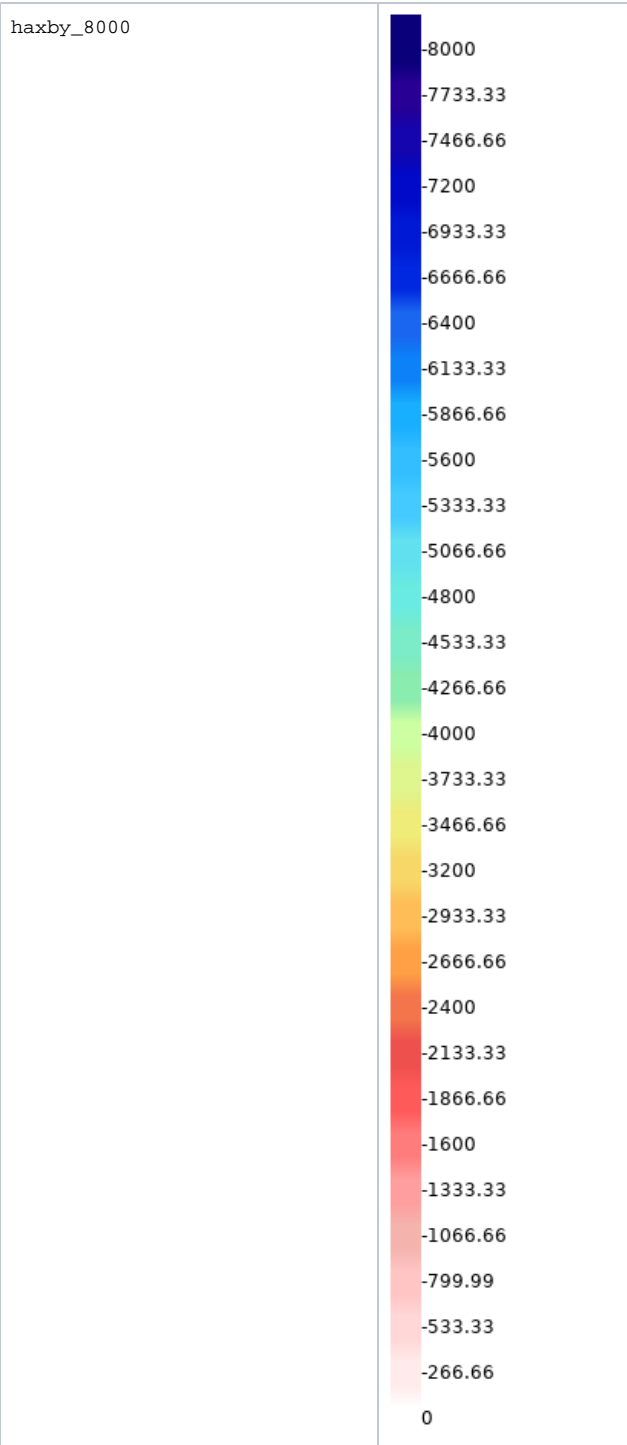
This page describes which pre-defined and curated styles (static styles) our spatial data infrastructure offers and how our customizable styles (template /dynamic styles) work. All styles offered are as SLD files (Styled Layer Descriptor).

## Raster Layers

### Static Styles

Style Name	Legend Preview
GlobColour2	 <div><div>0.010</div><div>0.050</div><div>0.075</div><div>0.100</div><div>0.150</div><div>0.200</div><div>0.250</div><div>0.300</div><div>0.350</div><div>0.400</div><div>0.475</div><div>0.550</div><div>0.625</div><div>0.700</div><div>0.900</div><div>1.100</div><div>1.300</div><div>1.500</div><div>3.000</div><div>10.000</div><div>30.000</div></div>




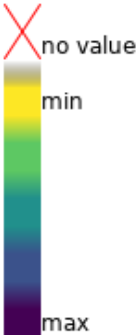


## Template/Dynamic Styles

There are eight "empty" styles available which can be manipulated to one's needs. If used without any changes they will default to values between 0 and 1 being mapped to a viridis color ramp (with 3 to 9 defined color steps) or to a two-step black-white color ramp. In between these defined color steps a value's color will gradually change. The following table shows styles `template_2col` and `template_5col` as examples. Style names go up to `template_9col`.

Color (RGB hexvalue), opacity, value (quantity) and label (how it appears in the legend) are variables which can be specified explicitly in a GetMap request.

Style Name	Default Legend	SLD File Excerpt
------------	----------------	------------------

templat e_2col		<b>Style: template_2col</b> <pre> &lt;sld:ColorMap&gt;   &lt;sld:ColorMapEntry color="\${env('colnv','#000000')}" opacity="\${env('opanv',0.0)}" quantity="\${env('valnv',-1)}" label="\${env('labnv','no value')}" /&gt;   &lt;sld:ColorMapEntry color="\${env('coll','#FFFFFF')}" opacity="\${env('opal',1.0)}" quantity="\${env('vall',0)}" label="\${env('lab1','min')}" /&gt;   &lt;sld:ColorMapEntry color="\${env('col2','#000000')}" opacity="\${env('opa2',1.0)}" quantity="\${env('val2',1)}" label="\${env('lab2','max')}" /&gt; &lt;/sld:ColorMap&gt; </pre>
templat e_5col		<b>Style: template_5col</b> <pre> &lt;sld:ColorMap&gt;   &lt;sld:ColorMapEntry color="\${env('colnv','#000000')}" opacity="\${env('opanv',0.0)}" quantity="\${env('valnv',-1)}" label="\${env('labnv','no value')}" /&gt;   &lt;sld:ColorMapEntry color="\${env('coll','#FDE725')}" opacity="\${env('opal',1.0)}" quantity="\${env('vall',0)}" label="\${env('lab1','min')}" /&gt;   &lt;sld:ColorMapEntry color="\${env('col2','#5DC863')}" opacity="\${env('opa2',1.0)}" quantity="\${env('val2',0.25)}" label="\${env('lab2','')}" /&gt;   &lt;sld:ColorMapEntry color="\${env('col3','#21908C')}" opacity="\${env('opa3',1.0)}" quantity="\${env('val3',0.5)}" label="\${env('lab3','')}" /&gt;   &lt;sld:ColorMapEntry color="\${env('col4','#3B528B')}" opacity="\${env('opa4',1.0)}" quantity="\${env('val4',0.75)}" label="\${env('lab4','')}" /&gt;   &lt;sld:ColorMapEntry color="\${env('col5','#440154')}" opacity="\${env('opa5',1.0)}" quantity="\${env('val5',1)}" label="\${env('lab5','max')}" /&gt; &lt;/sld:ColorMap&gt; </pre>
templat e_3col	like above	like above
templat e_4col		
templat e_6col		
templat e_7col		
templat e_8col		
templat e_9col		