

Report

SCAR Symbol Editor and Library (SEAL)

September 2007

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Introduction

The Symbol Library is a collection of standard symbols for rendering features on screen-based maps. They are used by a number of communities including the Australian Ocean Data Centre Joint Facility (AODCJF), SCAR Standing Committee on Antarctica Geographic Information (SCAGI) and the Australian Antarctic Data Centre.

Symbols are generated into Styled Layer Descriptors (SLDs) and generated in real-time by sending a request to a Web Map Server, which creates a preview of a symbol while it is being edited.

This catalogue and editor is used by as a central repository for symbols. Therefore, the symbols that are stored here can be viewed by the public, however, public users cannot edit or add symbols to the catalogue. Currently only a few AODCJF and AADC staff can edit and create symbols.

SEAL can be found out on the web at: <http://aadc-maps.aad.gov.au/aadc/symbology/>

The AADC is going to customise SEAL for the SCAGI. It is not responsible for populating SEAL though.

Development since the last meeting in Hobart July 2006

There has been no further development of SEAL since the last meeting.

The next 12 months

Over the coming 12 months, the AADC will be adding the Style Layer Descriptors (SLD's) as required for AADC applications. This will be a small number of symbols. Second priority will be to add symbols emailed from BAS (Paul Cooper) from the ADD WMS project and also from the AADC Antarctic font. These will be available for anyone to use.

We have no available programming time for any SEAL development work during 2007/2008 year.

The 12 months after that


The AADC have scheduled a block of development work which may include:

- Searching SEAL based on a communities interest. E.g. give me all the symbols that the AADC users or SCAGI is interested in. The code has been written, but need to be checked and connected.
- Accept SLD code directly into SEAL.
- Link Feature Types from the SCAR FC to SEAL. E.g. a station. The symbol for feature type may be a black square. The symbol for the attribute temporal may be a red square for seasonal and a blue square for permanent.

Screen captures

3 screen captures from the slide presentation at SCAR XVII in Hobart July 2006

Australian Antarctic Data Centre » Data Centre Portal » Scientific Databases » Symbol Library



Symbol Editor and Library

A library of symbols used by the AODC and AAD for Australian and Antarctic marine work. The complete library can be viewed and searched by the public, but only symbology custodians can edit or create symbols.

Symbol Library

Search across all databases:

About this database

Logged in as - Ursula Ryan
 Current Role - Custodian.
[Portal Logout](#)

Menu

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Symbols

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Feature Type Styles

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★ Create a new symbol

Search for symbols





Name:

Symbol Type: Any Lines Points Polygons

Search In: Symbol Names AODC Feature Type Names
 Symbol Group Names Groups containing Symbols

Search results for any symbols:

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Render	Symbol Name	Symbol Type	AODC Feature Type	
	Blue Line Fill with Dark Blue Outline	polygon	Marine Reserves	view download edit delete
	CTD	point	AAD CTD cast	view download edit delete
	Dark Brown	polygon	Administrative Boundary - Census Statistical Local Area, Species Distribution - Introduced Marine Pest Species in IMCRA regions	view download edit delete
	Dark Brown Triangle	point	Estuary	view download edit delete
	Light Brown/Tan with Thin Black Border	polygon	World Countries	view download edit delete
	Lighthouse	point	Lighthouses	view download edit delete

The interface for searching

Symbol Details

[View XML](#) | [Upload to GeoServer](#)

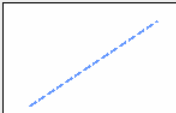
Tip:

Symbol Name:

AODC Feature Name:

Geometry Column Name:

Symbol Type:



Symbols are used to visually aid in defining styles used for objects on a map, such as contour lines, helpads, or refuges.

Strokes [Add Stroke](#)

Style	Colour	Opacity	Width	Dash Array	Dash Offset
- - - - -	#6699FF	1	2	5.0 4.0	0

The interface for a user creating a symbol

```
- <StyledLayerDescriptor version="1.0.0" xsi:schemaLocation="http://www.opengis.net/sld StyledLayerDescriptor.xsd">
- <NamedLayer>
  <Name>LegendTestNamedLayer</Name>
- <UserStyle>
  <Name>LegendTestUserStyle</Name>
- <FeatureTypeStyle>
  - <Rule>
    - <PointSymbolizer>
      - <Graphic>
        - <ExternalGraphic>
          <Format>image/png</Format>
          <OnlineResource xlink:href="http://aadc-maps.aad.gov.au/database/images/symbology/external_graphics/fur_seal.png"
            xlink:type="simple"/>
          </ExternalGraphic>
          <Opacity>1</Opacity>
          <Size>16</Size>
          <Rotation>0</Rotation>
        </Graphic>
      </PointSymbolizer>
    </Rule>
  </FeatureTypeStyle>
</UserStyle>
</NamedLayer>
</StyledLayerDescriptor>
```

XML resulting from creating a point symbol