

S101PT12 Meeting

VTC 13-15 Feb. 2024

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UNH

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UKHO

**SVG Inline
Styling
& Tiny-to-IHO
Translation**

Cody
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UNH

Tiny-to-IHO SVG Translator and CSS Inline Styling Removal

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IHO Secr.

David
Grant

NIWC

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February 15, 2024

MOTIVATION

Inline Styling



"Style" attribute is not supported in Tiny 1.2

SVG Translation

QoBD	Lines	Dot Clusters
1		
2		
3		
4		
5		
U		

Symbology development directly in IHO format can become cumbersome

ACTION 10-06

UNH, KHOA, IHO Secretariat:

- ❑ *Update GI Registry symbols to conform the S-100 Ed. 5.1 with removing inline styling*
- ❑ *Develop a tool that converts symbology from existing commercial and open-access software (e.g., AI, InkScape) to IHO SVG format.*

CSS INLINE STYLING

BOYNM02.svg

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?xml-stylesheet href="daySvgStyle.css" type="text/css"?>
3 <svg xmlns="http://www.w3.org/2000/svg" version="1.2" baseProfile="tiny" xml:space="preserve" style="shape-rendering:ge
4 <title>BOYNM02</title>
5 <desc>emergency wreck marking buoy, simplified</desc>
6 <metadata>
7   <iho:S100SVG xmlns:iho="http://www.iho.int/SVGMetadata/5.0">
8     <iho:Description iho:publisher="IHB" iho:creationDate="2014-06-09" iho:source="S52Preslib4.0" iho:format="S100SVG"
9   </iho:S100SVG>
10 </metadata>
11 <rect class="symbolBox layout" fill="none" x="-2.03" y="-2.03" height="4.06" width="4.06" />
12 <rect class="svgBox layout" fill="none" x="-2.03" y="-2.03" height="4.06" width="4.06" />
13 <circle cx="0" cy="0" r="2" class="fCHYLW" style="stroke-width:0" />
14 <path d=" M -0.79,1.86 L -1.11,1.68 L -1.34,1.51 L -1.57,1.28 L -1.8,0.91 L -1.89,0.67 L -1.97,0.43 L -2.02,0.06 L -1.
15 <circle cx="0" cy="0" r="2.03" class="sl f0 sOUTLW" style="stroke-width:0.32" />
16 <circle cx="0" cy="0" r="0.15" class="fOUTLW" style="stroke-width:0" />
17 <circle class="pivotPoint layout" fill="none" cx="0" cy="0" r="0.4"/>
18 </svg>
```



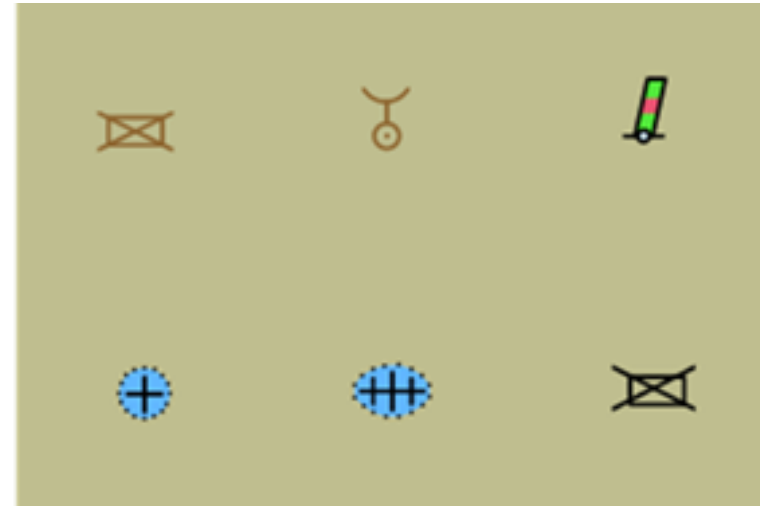
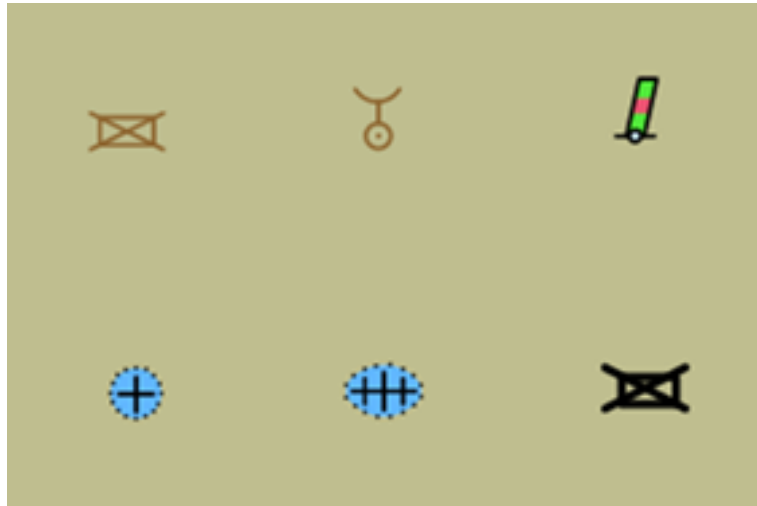
css_removed_BOYNM02.svg

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <?xml-stylesheet href="daySvgStyle.css" type="text/css"?>
3 <svg xmlns="http://www.w3.org/2000/svg" version="1.2" baseProfile="tiny" xml:space="preserve" style="shape-rendering:ge
4 <title>BOYNM02</title>
5 <desc>emergency wreck marking buoy, simplified</desc>
6 <metadata>
7   <iho:S100SVG xmlns:iho="http://www.iho.int/SVGMetadata/5.0">
8     <iho:Description iho:publisher="IHB" iho:creationDate="2014-06-09" iho:source="S52Preslib4.0" iho:format="S100SVG"
9   </iho:S100SVG>
10 </metadata>
11 <rect class="symbolBox layout" fill="none" x="-2.03" y="-2.03" height="4.06" width="4.06" />
12 <rect class="svgBox layout" fill="none" x="-2.03" y="-2.03" height="4.06" width="4.06" />
13 <circle cx="0" cy="0" r="2" class="fCHYLW" stroke-width="0" />
14 <path d=" M -0.79,1.86 L -1.11,1.68 L -1.34,1.51 L -1.57,1.28 L -1.8,0.91 L -1.89,0.67 L -1.97,0.43 L -2.02,0.06 L -1.
15 <circle cx="0" cy="0" r="2.03" class="sl f0 sOUTLW" stroke-width="0.32" />
16 <circle cx="0" cy="0" r="0.15" class="fOUTLW" stroke-width="0" />
17 <circle class="pivotPoint layout" fill="none" cx="0" cy="0" r="0.4"/>
18 </svg>
```



CSS INLINE STYLING

BUIREL04 BUIREL05 BOYSPR31



UWTROC03 WRECKS05 BUIREL14

Input



Browser view

Output



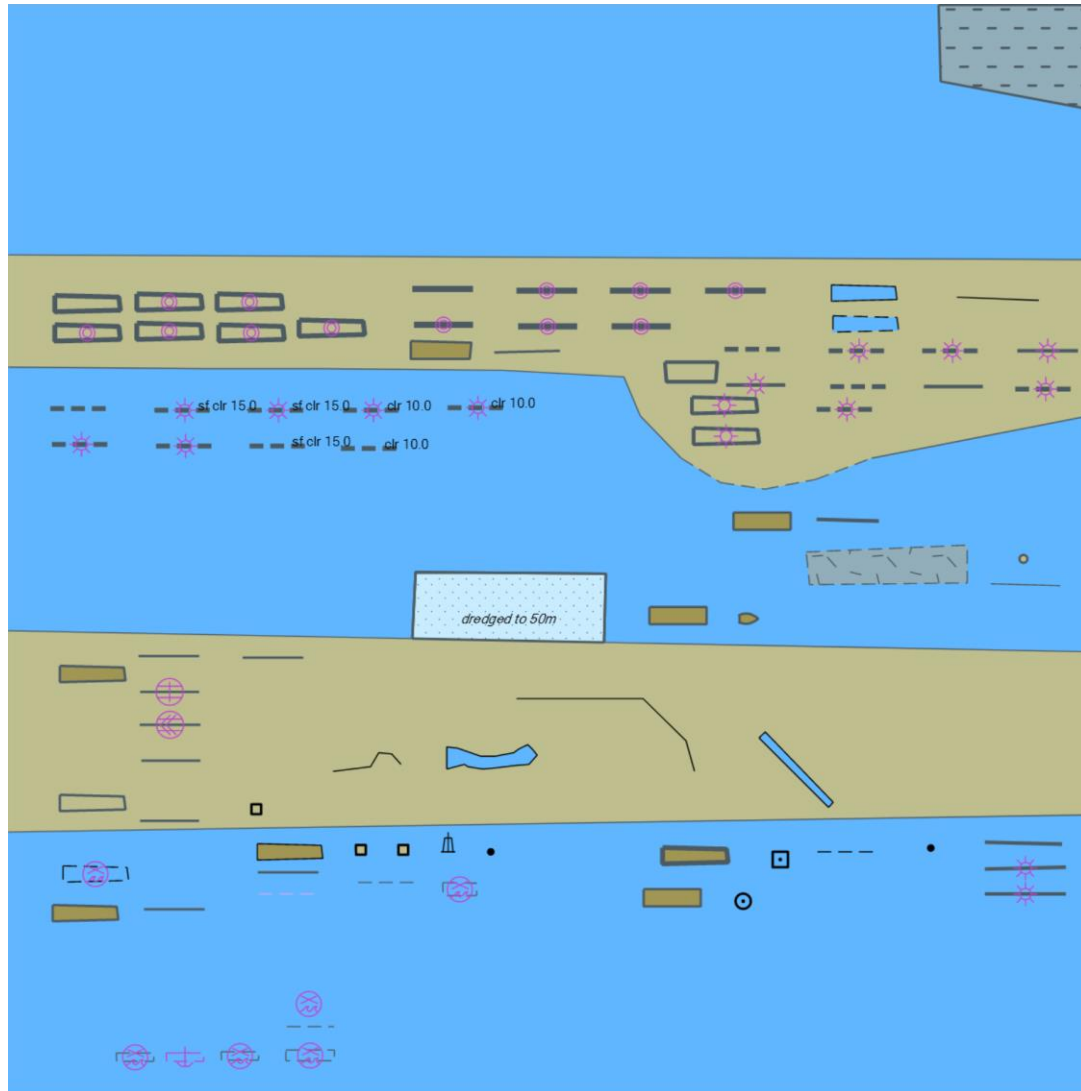
CSS INLINE STYLING

Summary:

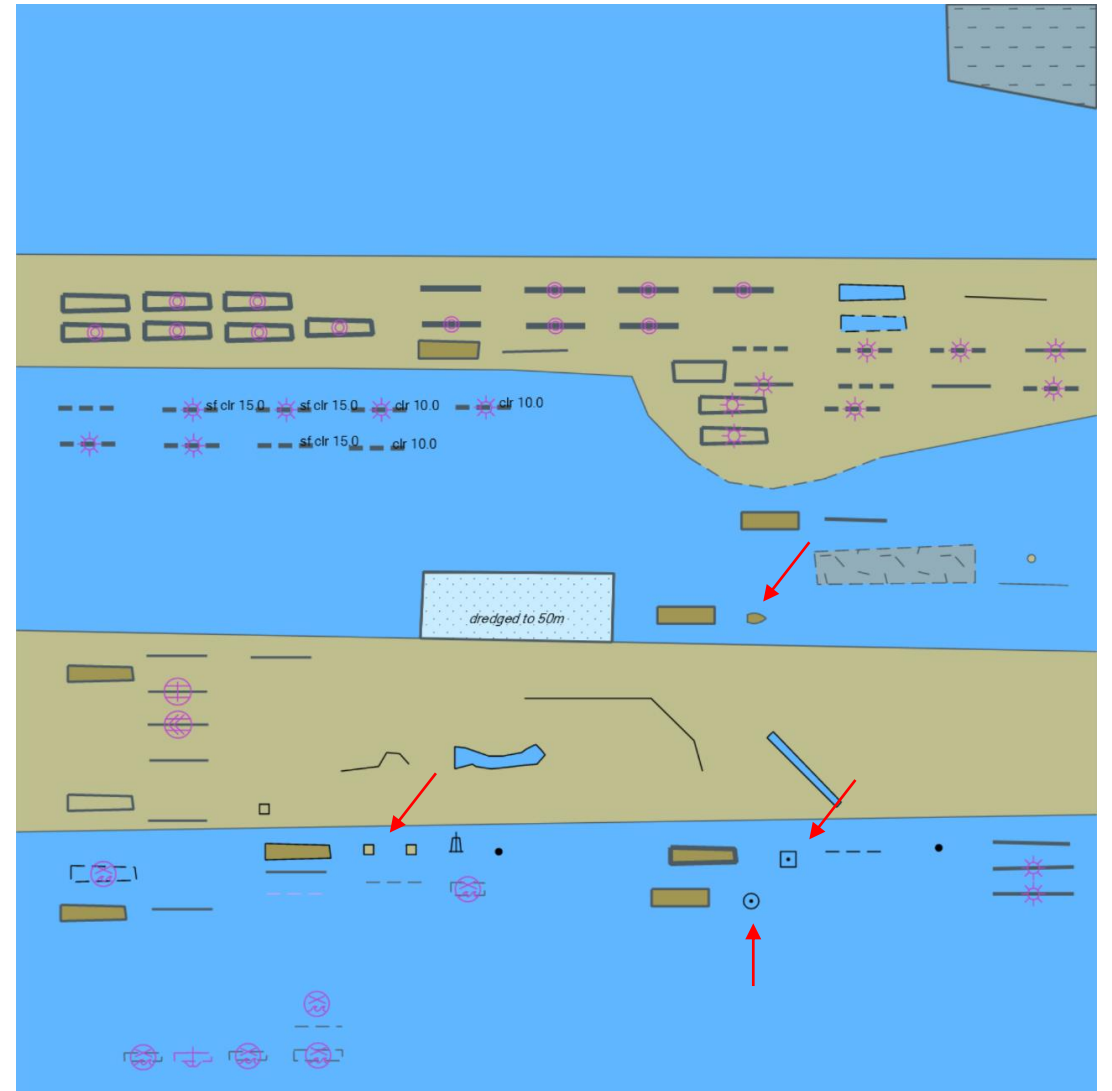
- ❑ *Registered symbols have been updated and individually inspected (696/736 with inline styling information).*

CSS INLINE STYLING

Original Symbology (Base)

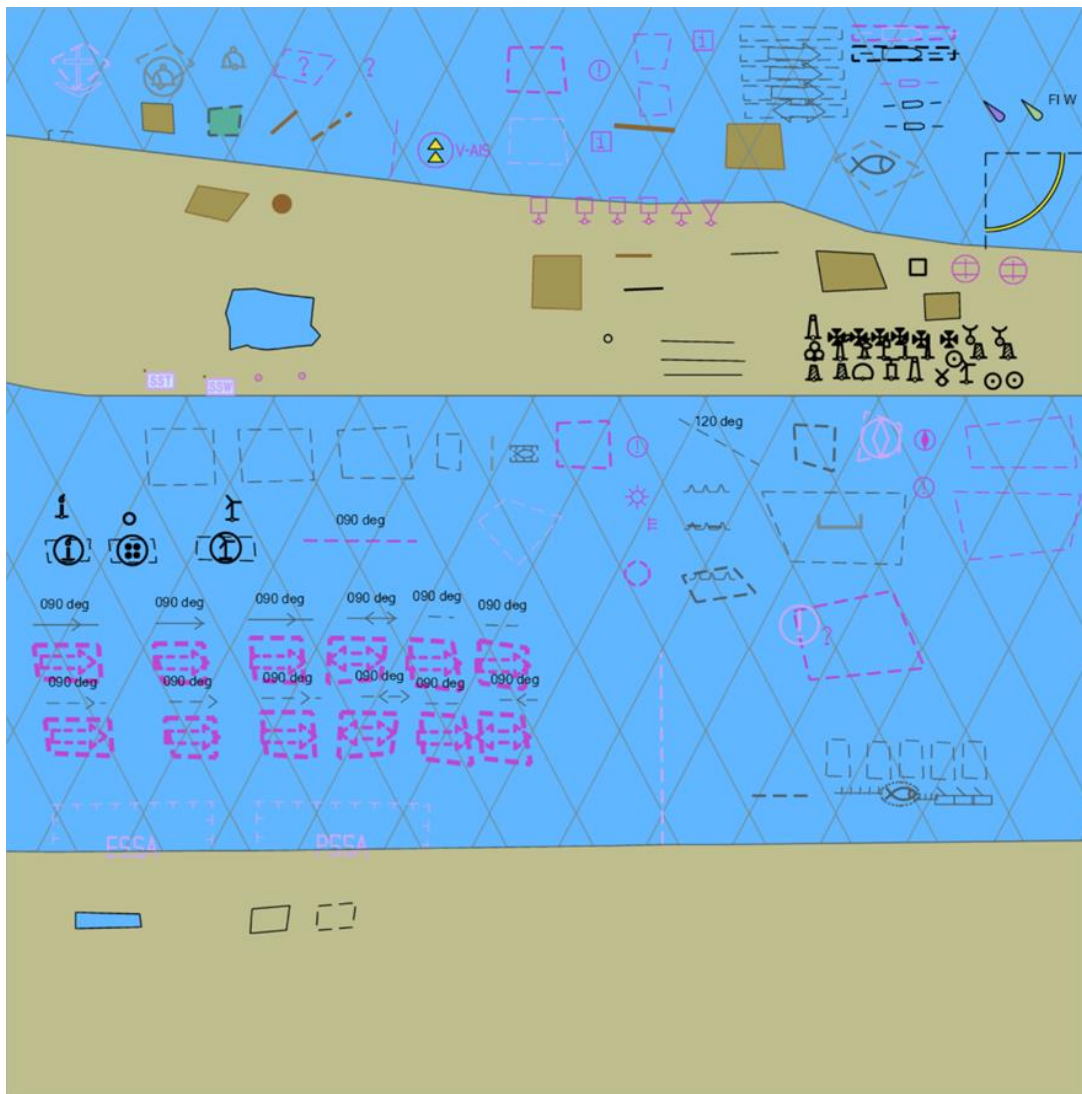


Modified Symbology (Base)

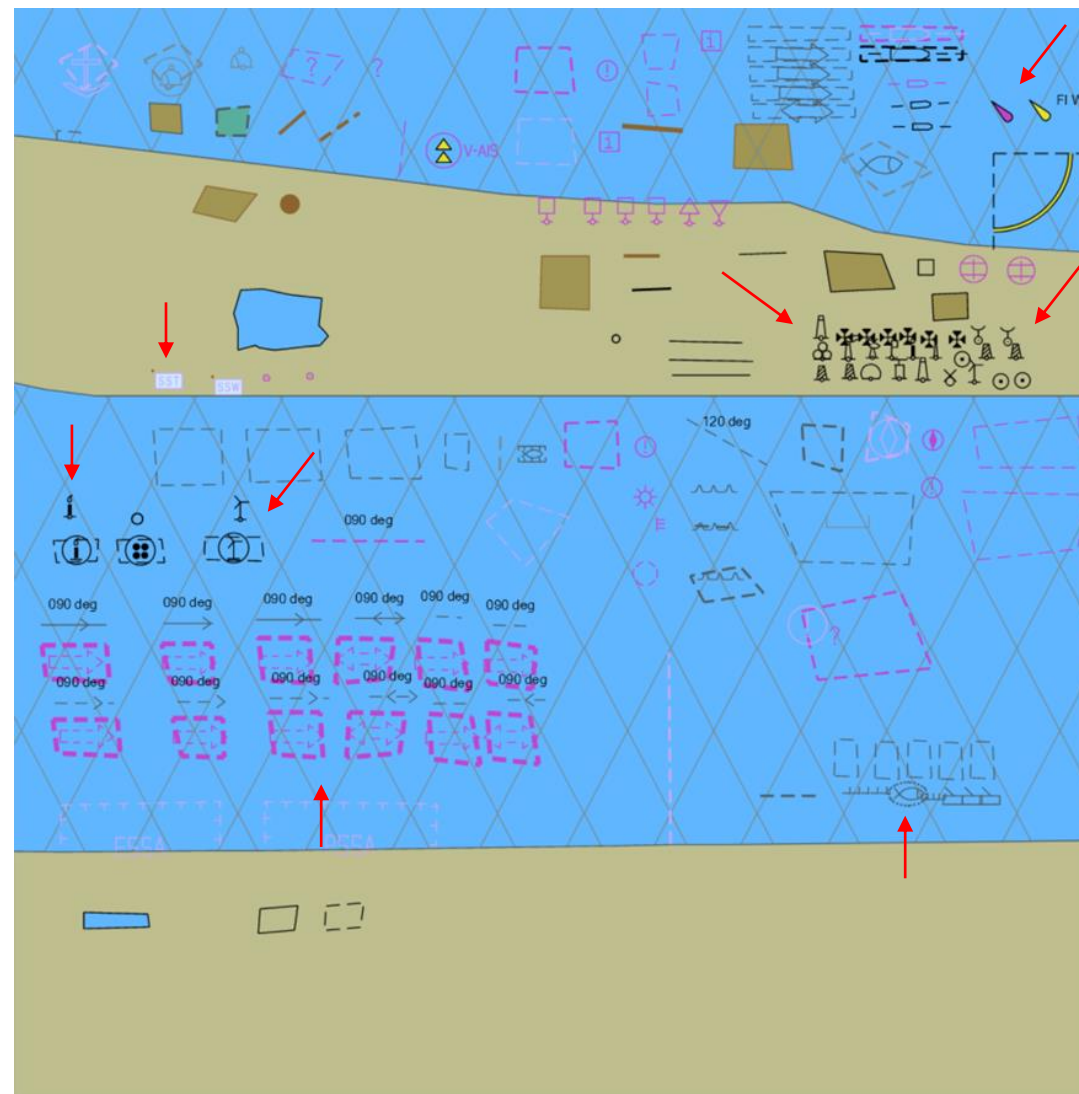


CSS INLINE STYLING

Original Symbolology (Standard)

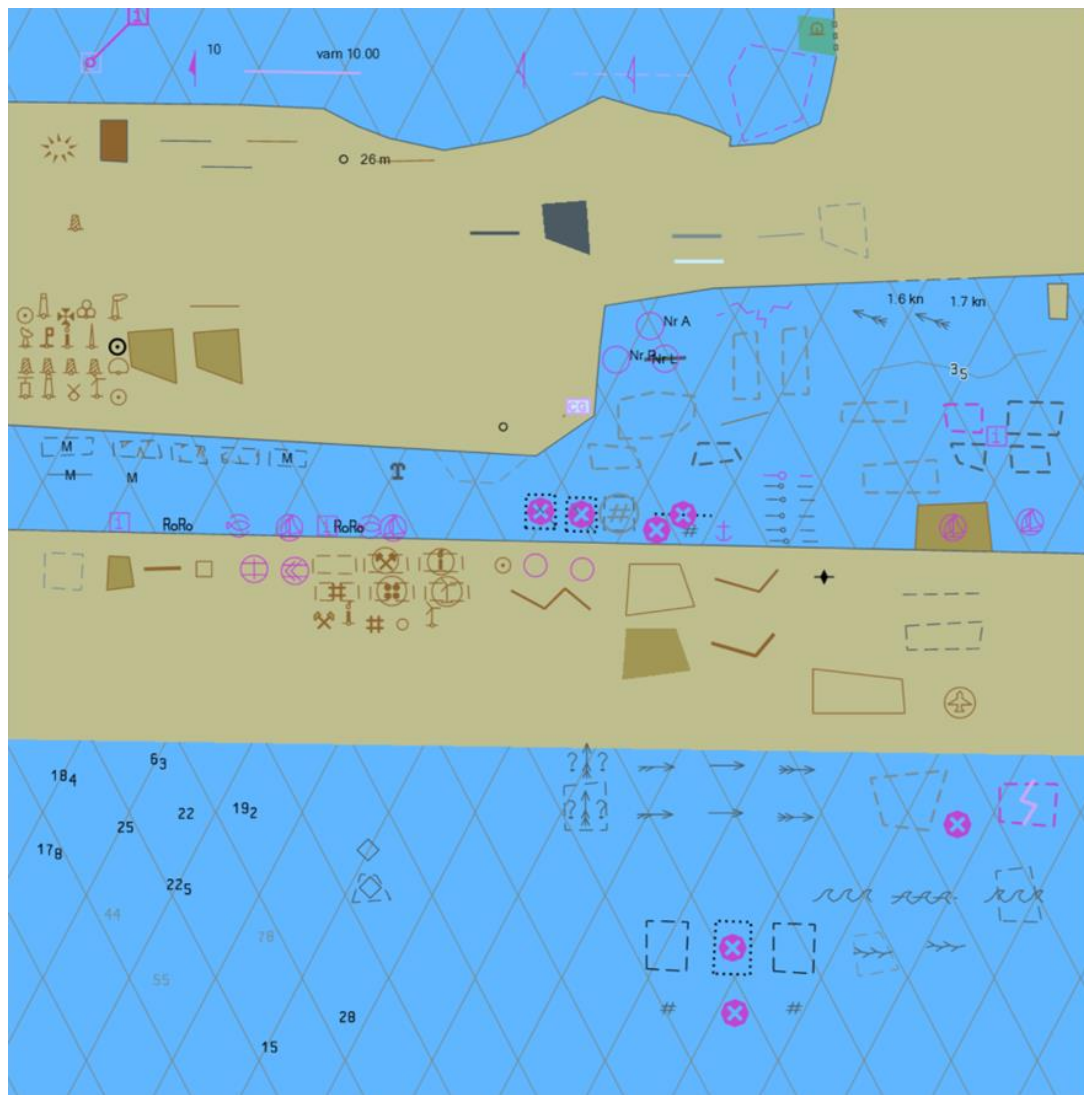


Modified Symbolology (Standard)

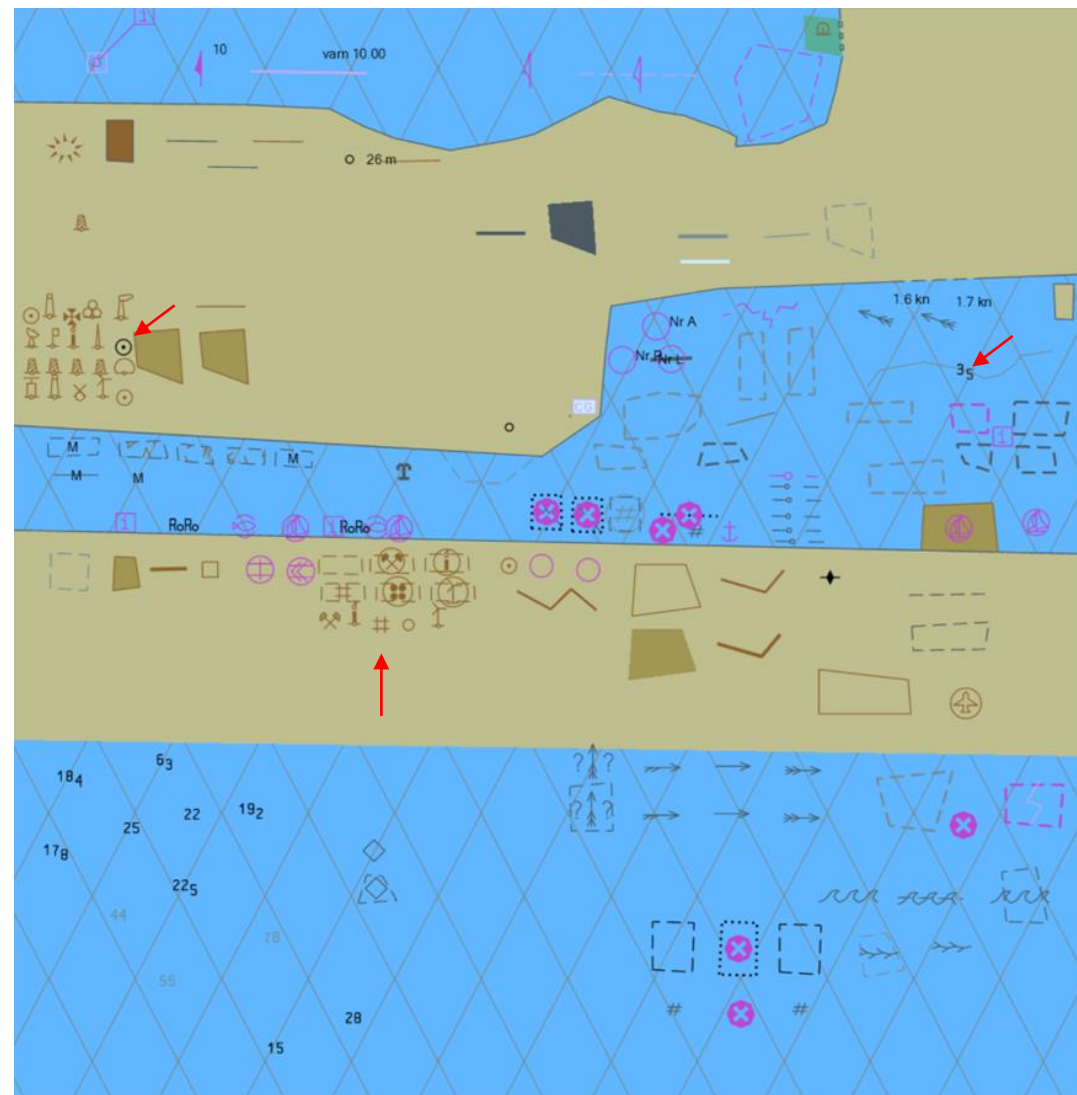


CSS INLINE STYLING

Original Symbolology (Other)



Modified Symbolology (Other)



CSS INLINE STYLING

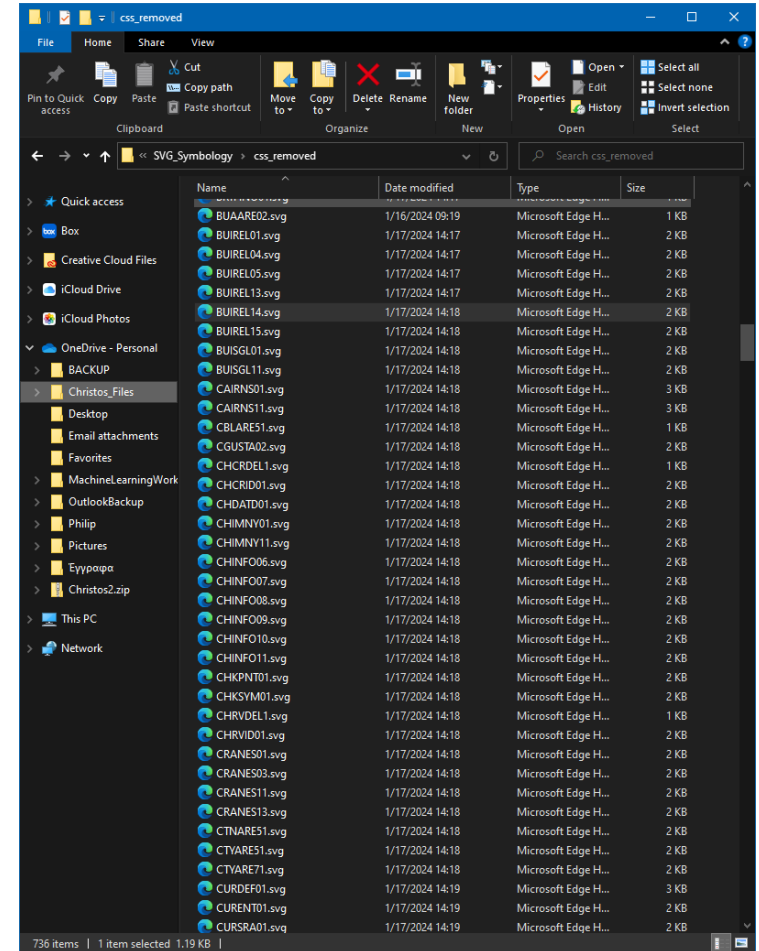
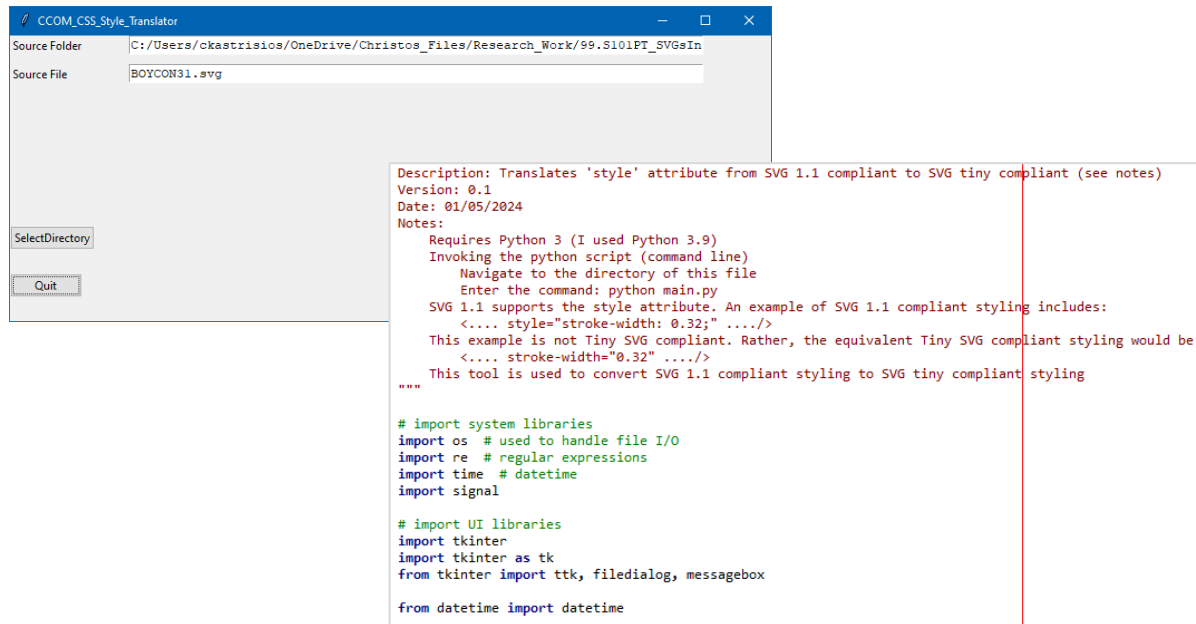
Summary:

- ❑ *Registered symbols have been updated and individually inspected (696/736 with inline styling information).*

CSS INLINE STYLING

Summary:

- ❑ Registered symbols have been updated and individually inspected (696/736 with inline styling information).
- ❑ Updated symbols and source code are available to S101PT.



SVG TRANSLATOR

```
ARCHARE03.svg
1 <?xml version="1.0" encoding="utf-8"?>
2 <!-- Generator: Adobe Illustrator 27.8.1, SVG Export Plug-In . SVG Version: 6.00 Build 0) -->
3 <svg version="1.1" id="Layer_1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink" x="0px" y="0px"
4   viewBox="0 0 612 792" style="enable-background:new 0 0 612 792;" xml:space="preserve">
5 <style type="text/css">
6   .st0{fill:none;stroke:#000000;stroke-width:8.5039;stroke-miterlimit:10;}
7 </style>
8 <line class="st0" x1="291" y1="279.6" x2="291" y2="481.3"/>
9 <line class="st0" x1="357" y1="319.6" x2="224.9" y2="319.6"/>
10 <line class="st0" x1="357" y1="477.9" x2="224.9" y2="477.9"/>
11 <line class="st0" x1="382.7" y1="449.2" x2="354" y2="477.9"/>
12 <line class="st0" x1="199.2" y1="449.2" x2="227.9" y2="477.9"/>
13 </svg>
```

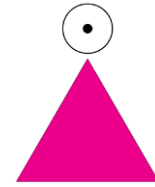
```
converted_ARCHARE03.svg
1 <?xml version="1.0" encoding="utf-8"?>
2 <?xml-stylesheet href="SVGStyle.css" type="text/css"?>
3 <svg xmlns="http://www.w3.org/2000/svg" version="1.2" baseProfile="tiny" xml:space="preserve" style="shape-rendering:geometricPrecision;
4   fill-rule:evenodd;" width="3.33mm" height="2.78mm" viewBox="-0.5 -0.5 3.33 2.78">
5 <title>This is the default title</title>
6 <desc>This is the default description</desc>
7 <metadata>
8   <iho:S100SVG xmlns:iho="http://www.iho.int/SVGMetadata">
9     <iho:Description publisher="IHO" creationDate="8/25/2023" source="S52Preslib4.0" format="S100SVG" version="0.1" />
10   </iho:S100SVG>
11 </metadata>
12 <circle class="pivotPoint layout" fill="none" cx="0.00" cy="0.00" r="0.01" />
13 <path d="M -0.209,-1.618 L -0.209,1.186" fill="none" class="sl f0 sCHBLK" style="stroke-width:0.8192;" />
14 <path d="M 0.709,-1.062 L -1.127,-1.062" fill="none" class="sl f0 sCHBLK" style="stroke-width:0.8192;" />
15 <path d="M 0.709,1.139 L -1.127,1.139" fill="none" class="sl f0 sCHBLK" style="stroke-width:0.8192;" />
16 <path d="M 1.066,0.74 L 0.667,1.139" fill="none" class="sl f0 sCHBLK" style="stroke-width:0.8192;" />
17 <path d="M -1.485,0.74 L -1.086,1.139" fill="none" class="sl f0 sCHBLK" style="stroke-width:0.8192;" />
18 </svg>
```


SVG TRANSLATOR

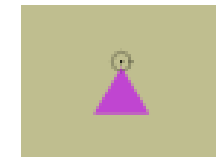
```
<?xml version="1.0" encoding="utf-8"?>
<!-- Generator: Adobe Illustrator 27.8.1, SVG Export Plug-In . SVG Version: 6.00 Build 0) -->
<svg version="1.2" baseProfile="tiny" id="Layer_1" xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink"
  x="0px" y="0px" viewBox="0 0 612 792" overflow="visible" xml:space="preserve">
<polygon fill="#EC008C" stroke="#000000" stroke-miterlimit="10" points="306,277.2 58.3,706.3 553.7,706.3 "/>
<circle cx="306" cy="172" r="16.1"/>
<circle fill="none" stroke="#000000" stroke-width="2.8346" stroke-miterlimit="10" cx="306" cy="172" r="86.2"/>
</svg>
```



```
<?xml version="1.0" encoding="utf-8"?>
<?xml-stylesheet href="SVGStyle.css" type="text/css"?>
<svg xmlns="http://www.w3.org/2000/svg" version="1.2" baseProfile="tiny" xml:space="preserve" style="shape-rendering:geometricPrecision;
fill-rule:evenodd;" width="3.33mm" height="2.78mm" viewBox="-0.5 -0.5 3.33 2.78">
  <title>This is the default title</title>
  <desc>This is the default description</desc>
  <metadata>
    <iho:S100SVG xmlns:iho="http://www.iho.int/SVGMetadata">
      <iho:Description publisher="IHO" creationDate="2/12/2024" source="S52Preslib4.0" format="S100SVG" version="0.1" />
    </iho:S100SVG>
  </metadata>
  <circle class="pivotPoint layout" fill="none" cx="0.00" cy="0.00" r="0.4" />
  <path d="M 0.0,-1.6516256158644893 L 0.0,-1.6516256158644893 L -3.443667214222509,4.313968254231912 L 3.443667214222509,
4.313968254231912 L 0.0,-1.6516256158644893" class="fCHMGD" style="stroke-width:0.32;" />
  <circle cx="0.0" cy="-2.24" r="0.22" class="fCHBLK" style="stroke-width:0.1024;" />
  <circle cx="0.0" cy="-2.24" r="1.2" class="sl f0 sCHBLK" style="stroke-width:0.1024;" />
</svg>
```



AI



S100
Viewer



THANK YOU!

