Manual for Package: delft3d
Revision 2M

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September 2, 2021

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```
interface for automatically generating and reading Delft3D-4 models
```

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7.1 Delft3D_His

```
fdx = (Xc~=0) & (Yc~=0);
fdx(1,:) = true; fdx(end,:) = true;
fdx(:,1) = true; fdx(:,end) = true;
fdx = fdx & (X>0);
X = obj.X;
for idx=1:size(u3,2)
 % first
 if (isnan(u3(1,idx,1,1)))
       u3(:,idx,1,:) = 0;
 end % if first
 % centre
 for jdx=2:size(u3,3)-1
       if (~isnan(X(idx,jdx)) && isnan(u3(1,
           idx,jdx,1)) ...
            && ( isnan(X(idx,jdx+1)) || isnan(X
                (idx,jdx-1)) ) )
              u3(:,idx,jdx,:) = 0;
       end
 end % for jdx
 % last
 if (isnan(u3(1,idx,end,1)))
       u3(:,idx,end,:) = 0;
 end % if last
end % for idx
```

8 @Delft3D_Map

8.1 Delft3D_Map

8.2 backscatter

8.3 calibrate_backscatter

```
c  = permute( c,[4,1,2,3]);
```

8.4 cs_flux

8.5 difference

8.6 discharge

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8.8 plot_cs

8.9 plot_cs2

8.10 plot_cs_1d

8.11 plot_stratigraphy

8.12 quiver_cs

8.13 to_earth

8.14 video

```
x = obj.elem_x();
y = obj.elem_y();
```

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9.1 Delft3D_Mdf

9.2 compose_domain

9.3 compose_mdf

10 @Delft3D_Mor

10.1 Delft3D_Mor

11 @Delft3D_Sed

11.1 Delft3D_Sed

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