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```
% Study all products (BEC) available and see how this perform within the
% Baltic region.
% The product to look at are:
% * [1] Baltic+ Salinity NOMINAL product(v1.0)
% * [2] Baltic+ Salitniy Nodal Sampling product (v1.0)
% * [3] Baltic BEC Global (v001)
%
% Author: rcatany
% Date   : 20191119
%
% History
% Version | Date | Note
% v1r0 [24/10/2019] : Creation of this script

%=====

clear
clc
close all

% Example (settings)
ibasin = 9;      % Basin number Arctic [ibasin 7]; Baltic [ibasin 9]

iyear = 2011;
imonth = 2;
iday = 1;

itime = datenum(iyear,imonth,iday);

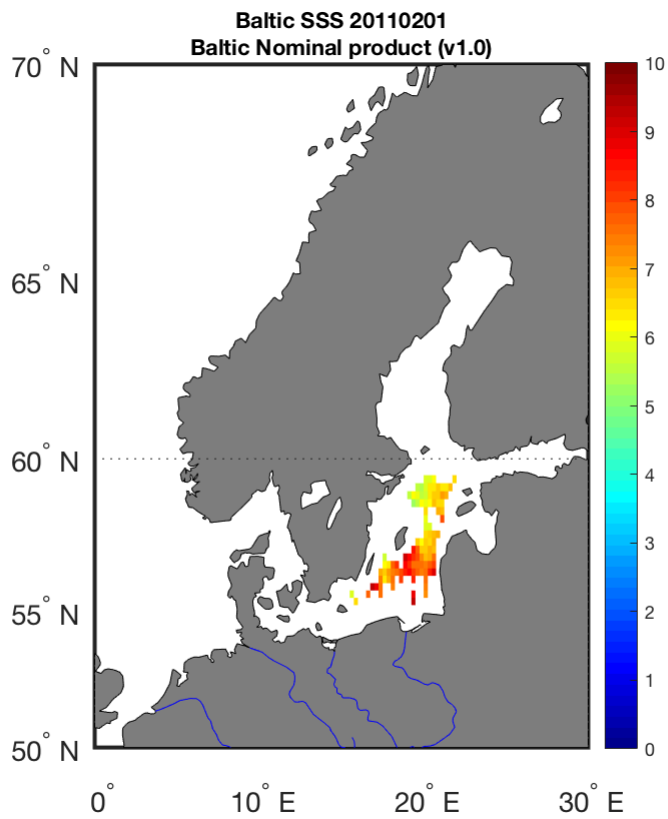
date_str = datestr(itime,'yyyymmdd');

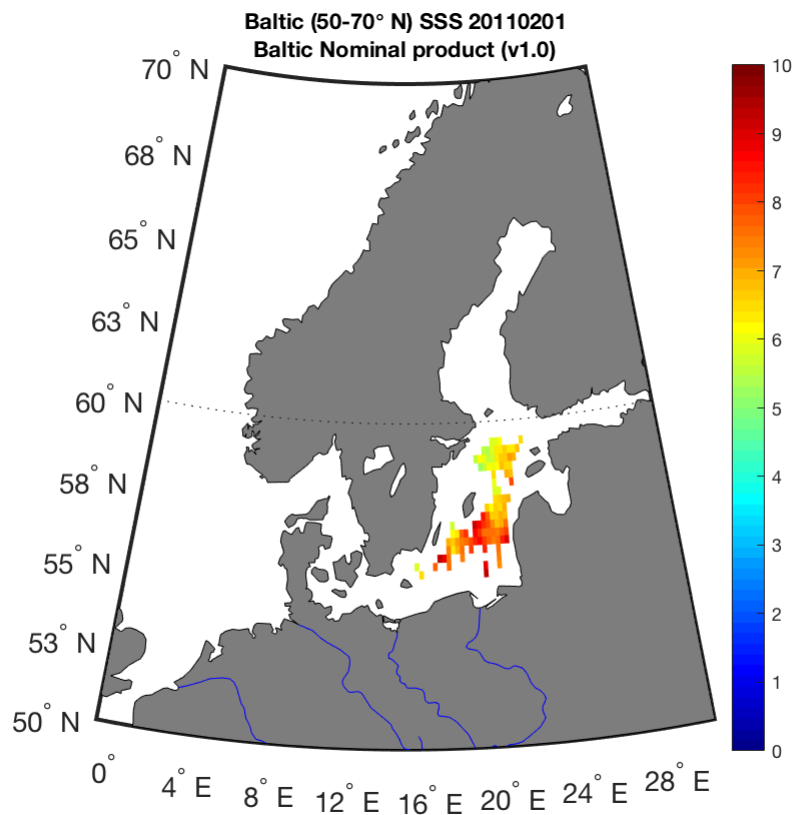
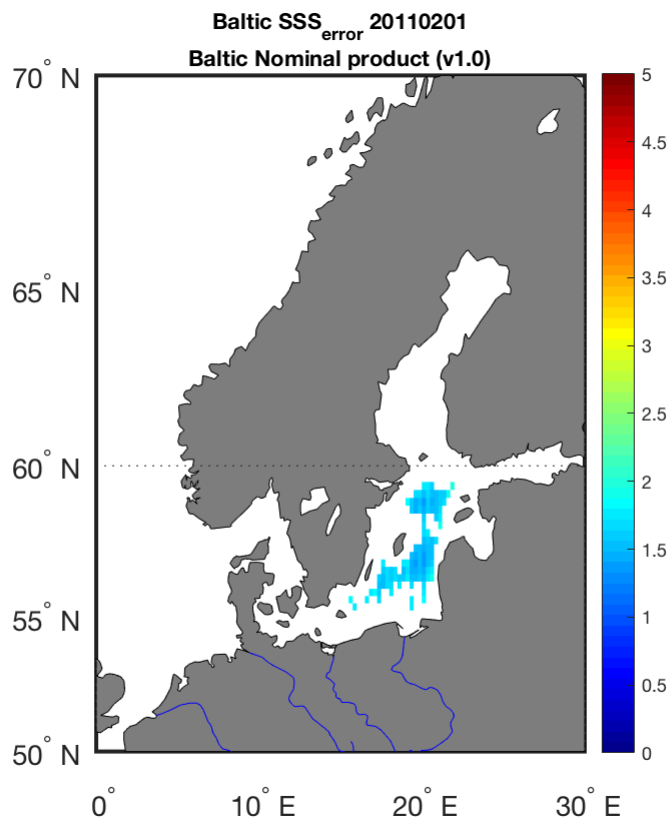
warning('off','all')
```

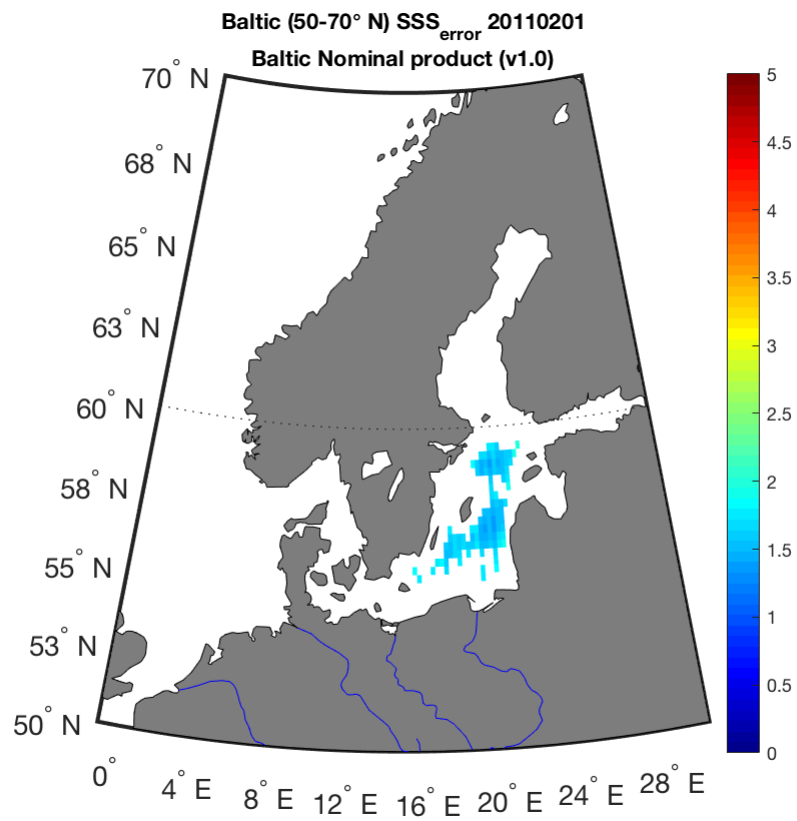
1/ SSS in each product [MERCATOR projection]

*[1.1] Baltic BEC NOM product (v1.0)

```
data_type = 4; % [4] Baltic+ NOM (v1.0), [5] Baltic NS (v1.0), [6] Global BEC  
plot_type = 1; % [1] Mercator, [2] Polar, [3] Lambert (conical), [4] All-plots  
region = 'Baltic';  
Baltic_plot_fun(ibasin,itime,data_type,plot_type,region)
```

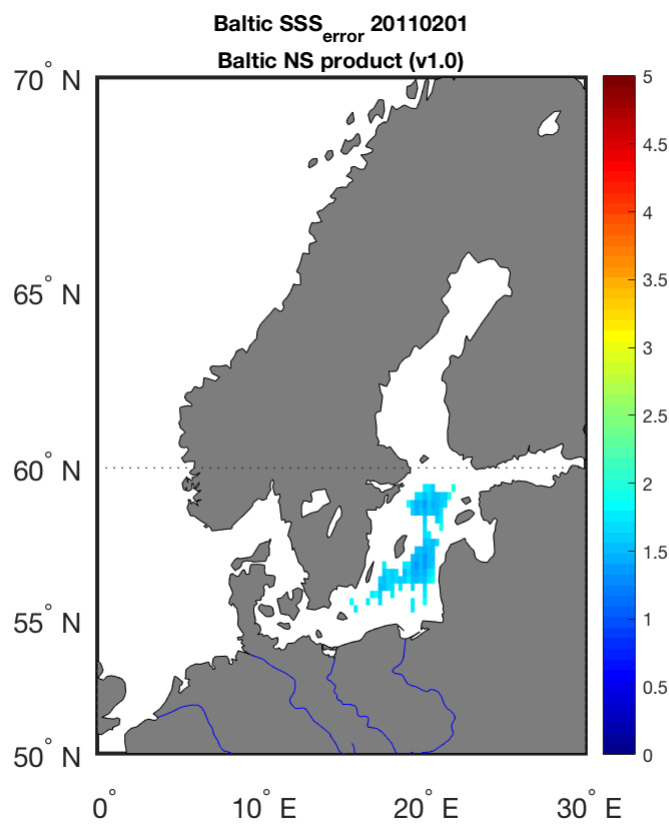
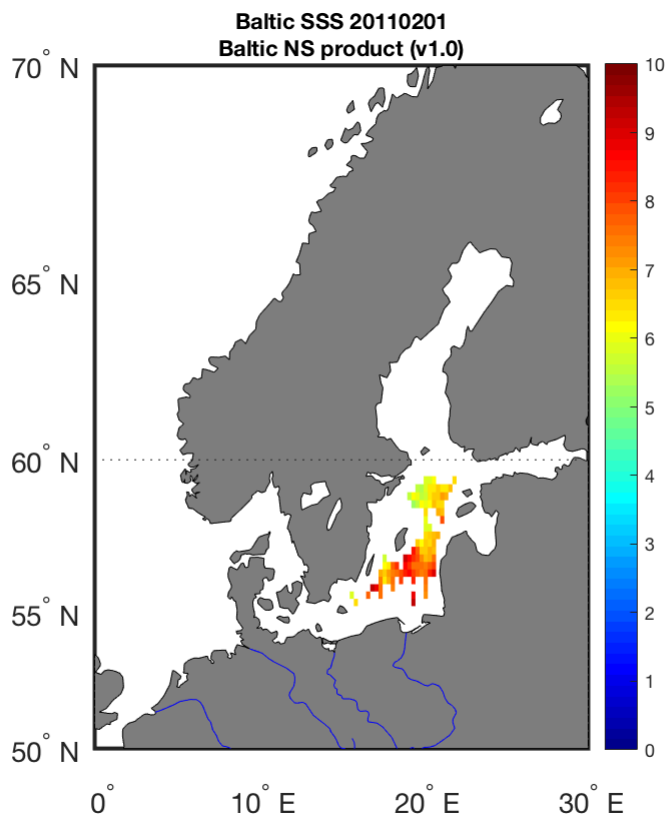


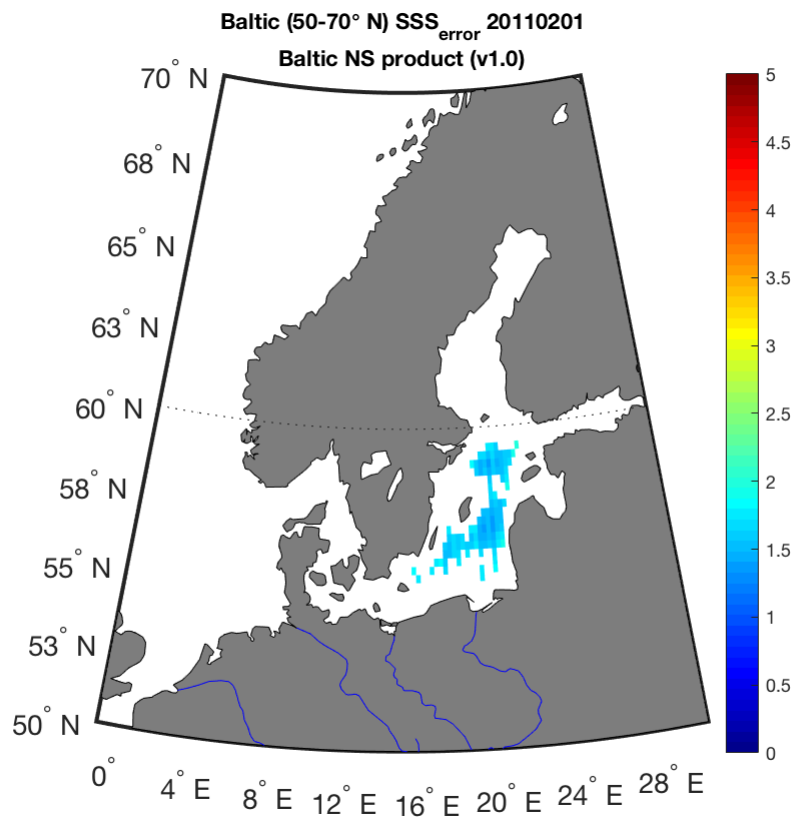
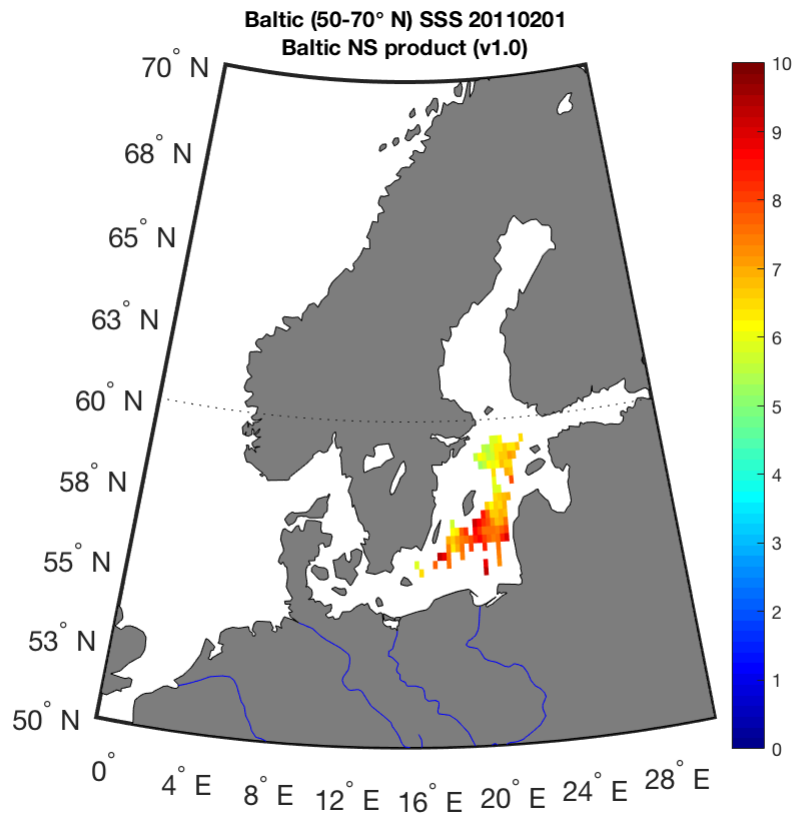




*[1.2] Baltic+ NS product (v1.0)

```
data_type = 5; % [4] Baltic+ NOM (v1.0), [5] Baltic NS (v1.0), [6] Global BEC
plot_type = 1; % [1] Mercator, [2] Polar, [3] Lambert (conical), [4] All-plots
region = 'Baltic';
Baltic_plot_fun(ibasin,itime,data_type,plot_type,region)
```





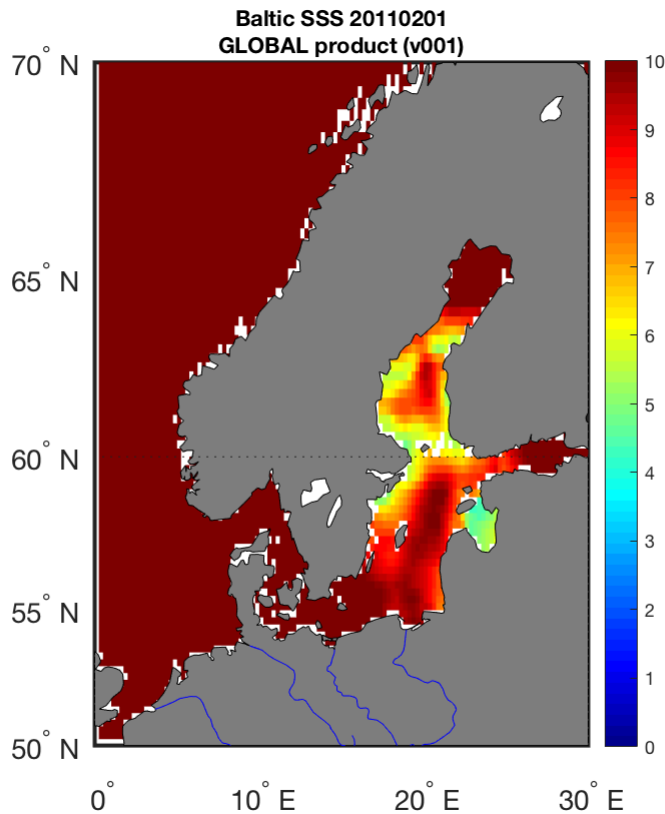
*[1.3] Global product (v001) in the Baltic region

```
if iyear <= 2016
data_type = 6; % [4] Baltic+ NOM (v1.0), [5] Baltic NS (v1.0), [6] Global BEC
```

```

plot_type = 1; % [1] Mercator, [2] Polar, [3] Lambert (conical), [4] All-plots
region = 'Baltic';
Baltic_plot_fun(ibasin,itime,data_type,plot_type,region)
end

```



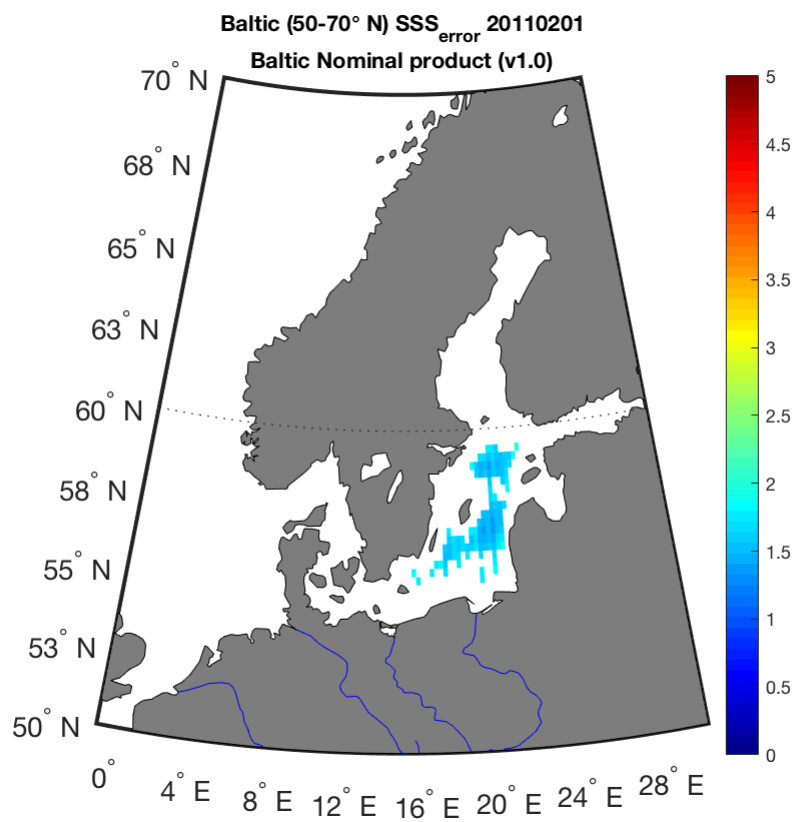
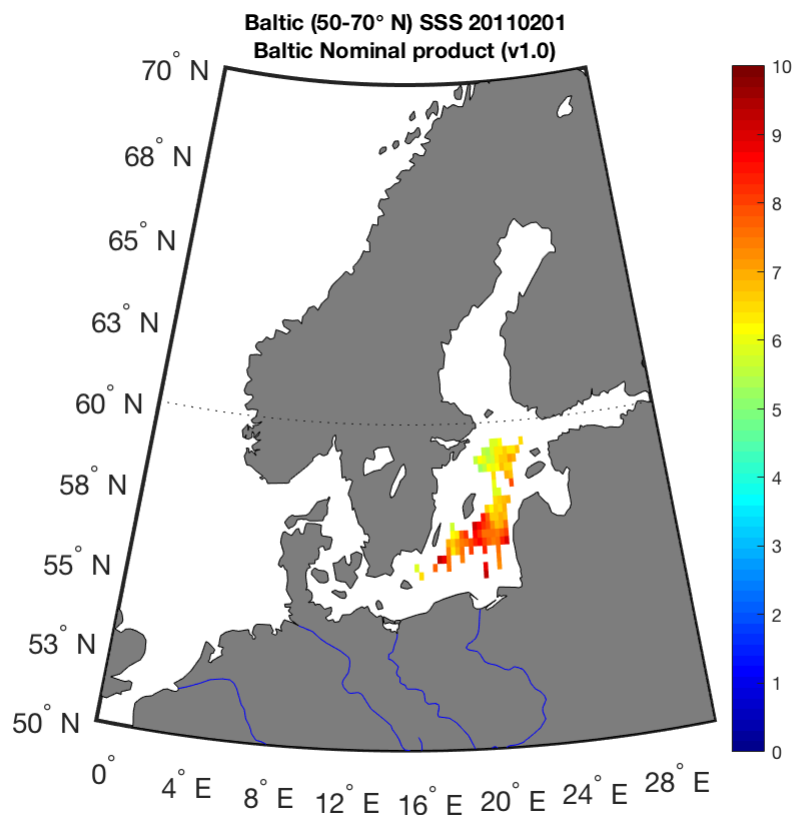
2/ SSS in each product in North Atlantic Subpolar [LAMBERT-conical projection]

*[2.1] Baltic BEC NOM product (v1.0)

```

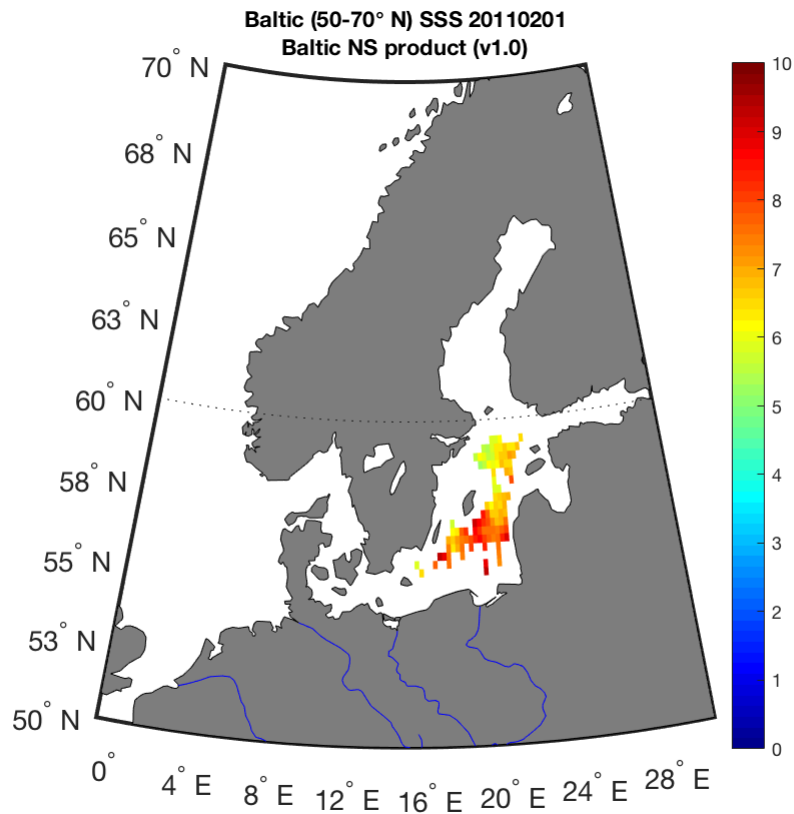
data_type = 4; % [4] Baltic+ NOM (v1.0), [5] Baltic NS (v1.0), [6] Global BEC
plot_type = 3; % [1] Mercator, [2] Polar, [3] Lambert (conical), [4] All-plots
region = 'Baltic';
Baltic_plot_fun(ibasin,itime,data_type,plot_type,region)

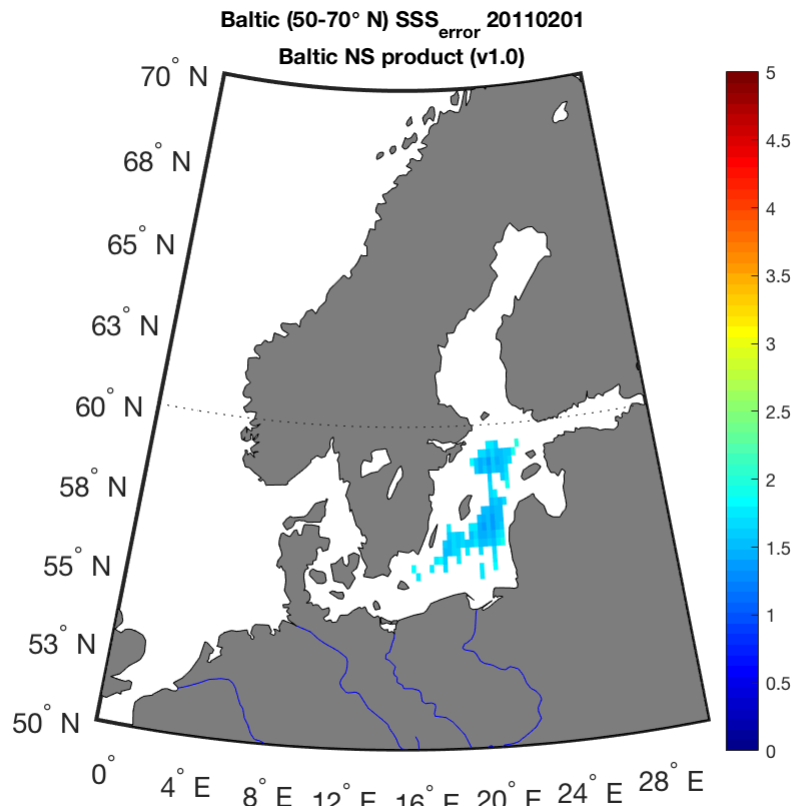
```



*[2.2] Baltic+ product (v1.0)

```
data_type = 5; % [4] Baltic+ NOM (v1.0), [5] Baltic NS (v1.0), [6] Global BEC  
plot_type = 3; % [1] Mercator, [2] Polar, [3] Lambert (conical), [4] All-plots  
region = 'Baltic';  
Baltic_plot_fun(ibasin,itime,data_type,plot_type,region)
```





*[2.3] Global product (v001) in the Arctic region

```
if iyear <= 2016
data_type = 6; % [4] Baltic+ NOM (v1.0), [5] Baltic NS (v1.0), [6] Global BEC
plot_type = 13; % [1] Mercator, [2] Polar, [3] Lambert (conical), [4] All-plots
region = 'Baltic';
Baltic_plot_fun(ibasin,itime,data_type,plot_type,region)
end
```

3/ Plot ANOMALIES computed from each product - Not possible [Baltic+ 2011-2013]

```
% *[1] Baltic BEC product (v2.0)
% data_type = 2; % [1] Arctic+ (v3.0), [2] Arctic BEC (v2.0), [3] Global BEC
% Arctic_CLIMAT_plot_fun (ibasin,iyear,imonth,data_type)
% % *[2] Arctic+ product (v3.0)
%
% data_type = 1; % [1] Arctic+ (v3.0), [2] Arctic BEC (v2.0), [3] Global BEC
% Arctic_CLIMAT_plot_fun (ibasin,iyear,imonth,data_type)
% % *[2] Global product (v001) in the Arctic region
%
% if iyear <= 2016
% data_type = 3; % [1] Arctic+ (v3.0), [2] Arctic BEC (v2.0), [3] Global BEC
% Arctic_CLIMAT_plot_fun (ibasin,iyear,imonth,data_type);
% end
```