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% Study all products (BEC) available and see how this perfom 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 = 7;

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