New features in imgkap v1.3, v1.4

Convert image file to KAP file using WGS84 positioning

imgkap mykap.png lat0 lon0 x0;y0 lat1 lon1 x1;y1 myresult.kap

Description :

For some images where it is difficult to get a left,top point and a right,bottom point for calibration it is more likely to find two known points within the image. You can use these points for calibration if you have the pixel values of the points from e.g. gimp.

New WGS84 positioning :
lat0 lon0 x0;y0 is a point in the left or right, upper third of the image
lat1 lon1 x1;y1 is a cater-cornered point in the right or left, lower third of the image.

lat has to be between -85 and +85 degree
lon has to be between -180 and +180 degree

Different format are accepted : -1.22 1°10'20.123N -1d22.123

x0;y0 and **x1;y1** are the coordinates in pixel within the image.

If you use pixel points both points must get pixel definition.

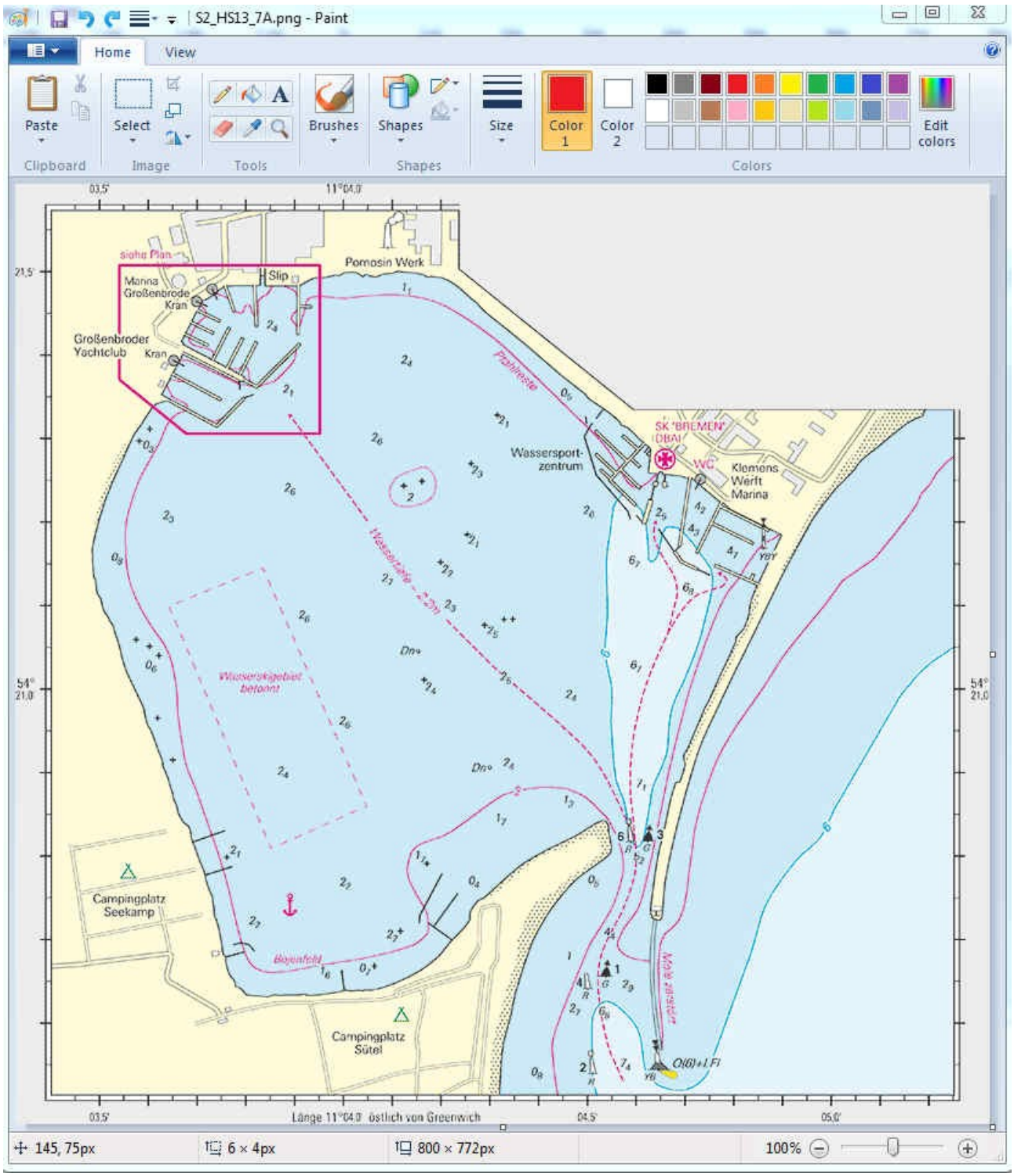
New options :

Some images have a frame which should not be shown in the Navigation program. You can define an visible area in the image by a sequence of pixel points.

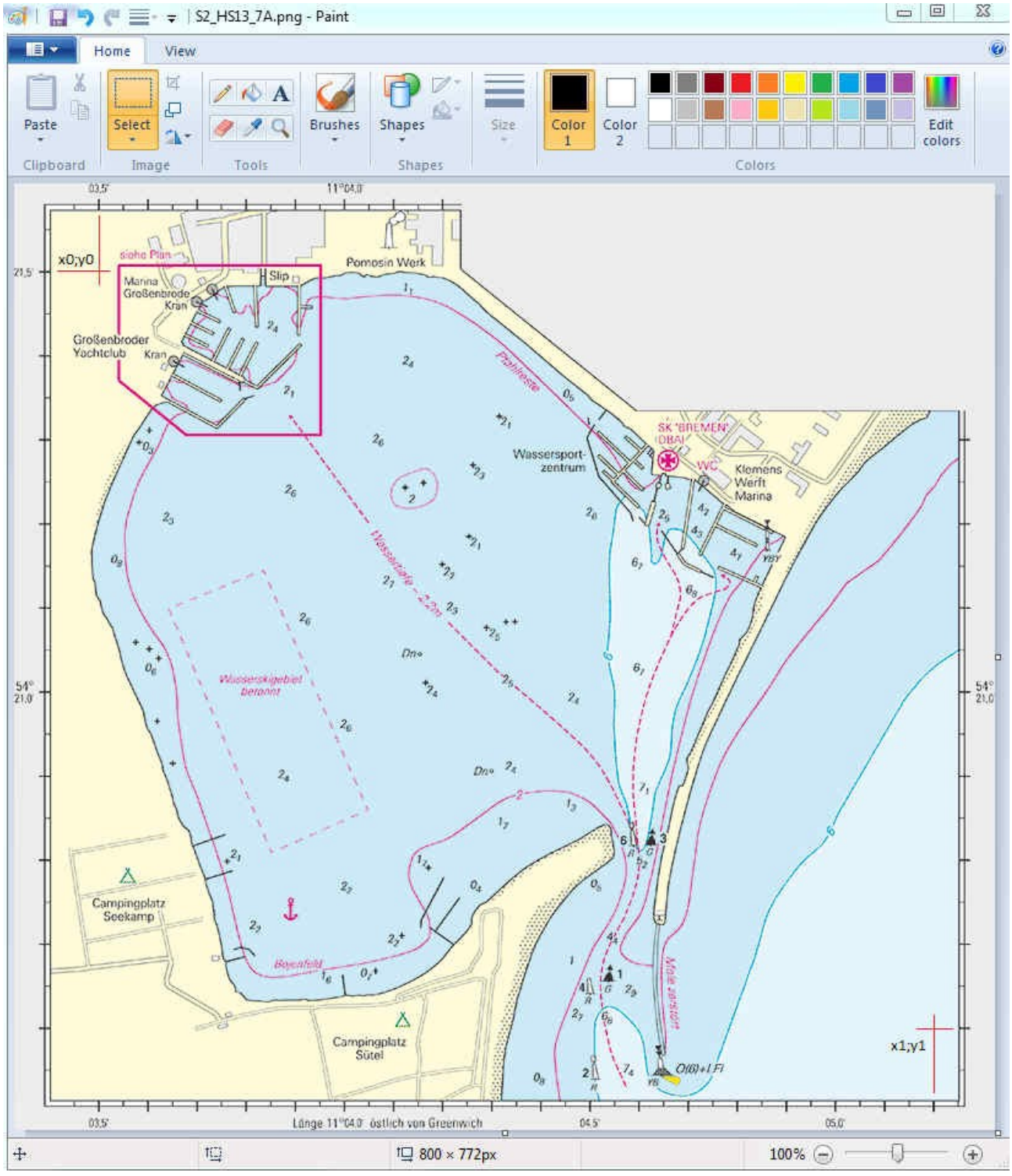
-r x0f;y0f-x1f;y1f "2 pixel points -> 4 * PLY"
define a rectangle area in the image visible from the .kap
-r x0f;y0f-x1f;y1f-x2f;y2f-x3f;y3f... "3 to 12 pixel points -> PLY"
define a up to 10 edges polygon visible from the .kap

-w : no image size extension to WGS84 because image is already WGS84

Example:
This image has a frame and it is difficult to get the left,top point and the right,bottom point.



With the new features it is possible to specify the two points within the image with x0;y0 x1;y1 pixel definitions.



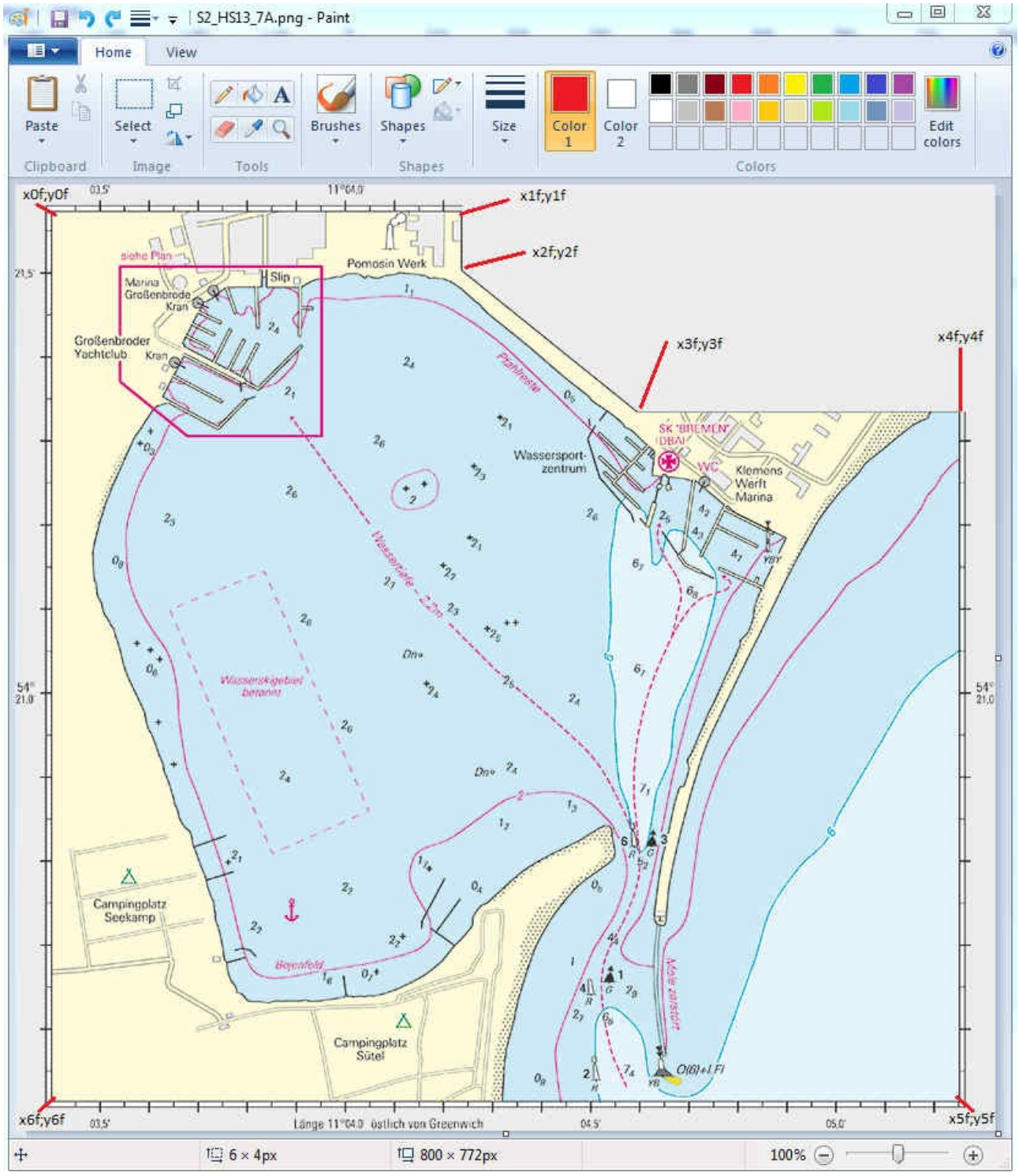
Use:

imgkap.exe -w mykap.png **54°21,5' 11°03,5' 68;72 54°20,6' 11°05,2' 750;689**
mykap.kap

to create the .kap file

To get the frame invisible it is also possible to define the visible area of the image with pixel points in a clockwise sequence following the -r option

-r x0f;y0f-x1f;y1f-x2f;y2f-x3f;y3f-x4f;y4f-x5f;y5f-x6f;y6f



Use:

imgkap.exe -w mykap.png 54°21,5' 11°03,5' 68;72 54°20,6' 11°05,2' 750;689

-r 30;23-363;23-363;70-509;186-769;186-769;747-30;747 mykap.kap

to create the .kap file

The created mykap.kap in OpenCPN: