## <u>Conversion of BSB Raster Charts \*.kap files</u> into an Android OruxMaps readable format

Lots of leisure skippers own numerous BSB Raster Charts from their Windows based navigation software. I'm sure they'd like to use these charts with OruxMaps on their Android Smartphone or TAB(let). I'm using the 7" Samsung Galaxy Tab since Dec. 4<sup>th</sup>, 2010.

Very soon I detected OruxMaps on the Google Market and presumed that it could be a solution to my wish. Unfortunately you cannot copy the raster chart files to the SD-card of the Android device directly. You have to convert these files into the Android readable format of OruxMaps.

Hereafter you'll find the way I did it:

On my Windows PC (notebook) I transformed with the help of the OziExplorer software and its conversion tool the \*.kap files into an Ozi readable format \*.map. True, you have to spent another 75 €uro for the OziExplorer, but there might be a buddy of yours, who already owns it and helps you.

After this first conversion you have to look for the software Kap-File-Utility ...... it is Freeware and you'll find it here: <u>http://opencpn.de/downloads</u> within the folder 'Seekarten-Software'

KAP-FILE	Toolbox
	KAP2IMG BSB FIX
- Conde	Benutzen Sie diese Funktion, um die Grafik aus einer BSB-Datei (.kap) zu extrahiere KAP-Datei:
MapCal zu IIIIII BSB Header	
Toolbox	Wählen Sie das Ausgabeformat
	TIFF     PNG
KAP ensteller	© both
	Grafik-Datei
Version: 0.1 (slpha)	
Autor: Gunther Pilz	

With this tool you extract from a specific \*.kap file the image file \*.png and copy it to a folder of your choice.

What we've got so far is a geo-referenced Ozi \*.map file and the corresponding image file \*.png.

Now, that we have the input data for the Oru×MapsDesktop available, we need this software and find it as a zip file here:

http://www.oruxmaps.com/descargas\_en.html

After unzipping the zip file, you have to double click on the following file: OruxMapsDesktop.bat - it opens the following DOS window C:\Windows\system32\cmd.exe, which doesn't require any further action:

-jar OruxM

..... and the following process sheet,

the OruxMapsDesktop, that has to be filled:

dMapsDesktop dp							
ter Batch Converter Calculator Util	ties Translator						
	Calibration file	<u> </u>					
-	Image file						in the
DATUM:			PROJECTION:				he.
and a second							
x		Y		Longitude		Latitude	
P1		1				N	
P2						N	
P3		1		1	1	10	
		L				1.00	
P4						8	
				Geographical	(C) Grid		
				a crop of real	000		
				a contraction	000		
		Map Name		T contractor	0.0		
	Destiny Directory	Map Name					
	Deatiny Directory	Hap Name	🛛 jpeg format (85% 💌 Quality	Create Map			
		Map Name		Create Map			
SLayer: 0 50% 0 25%	Destiny Dectory	Map Name		Create Map			
BLayer: 0 30% 0 25%		Map Name		Create Map			
Blaye: 0.30% 0.25%		Map Name		Create Map			
11. C 10% C 25%		Map Name		Create Map			
Stayer: 0 50% 0 25%		Map Name		Create Map			
Stayer: 0 50% 0 29%		Map Name		Create Map			
55.ayer: ○ 50% ○ 29%		Map Name	e joeg format 85% v Quality	Create Map			
nLayer: ○ 50% ○ 25%		Map Name	e joeg format 85% v Quality	Create Map			

Now you have to integrate the 2 former generated files \*.map and \*.png into the process sheet of the OruxMapsDesktop. It will suddenly reminds you of the Windows-Explorer's method of operation.

## \*.map is the Calibration file

After selecting the path for the \*.map file you'll notice an automatic fill-in in the next line Image file. You cancel that input and substitute it by the path you've chosen where you've saved the corresponding \*.png file first.

\*.png is the Image file

As Datum: you usually choose WGS 84 and as Projection: Mercator

The data block with the headings x, y, Longitude, Latitude will be filled automatically, while these data are created from the Ozi file \*.map, because it is already geo-referenced. Then you create a name of your choice and put it into Map Name. This is the name you'll find in the Oru×Maps software later.

A Destiny Directory is up to your free choice to find the converted maps on your Windows PC to copy them later to your predefined OruxMaps folder oruxsmaps/mapfiles/xxxxxx on your Android device.

The button Geographical remains activated, Multilayer remains deactivated.

As Imageformat you choose png format.

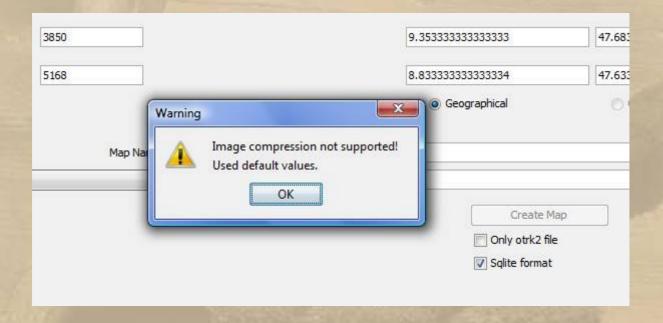
The button Only otrk2 file has to be deactivated and Sqlite format must be activated.

The following image shows my OruxMapsDesktop e.g. sample for Bodensee West ( Lake Constance West ):

erter Calculator Litities Translator						
Calibration file	C/0	sExplorer@laps@odersee2008@odersee_W_2010 - Bod	ensee_W_2010.map			
Snage Ne	0.0	U. CHARTSWIJ JSB. RASTER, CHARTSBodenee, 2008 Bodeneer, 31, 2010 ang			5	
1984: Global Definition		HERCATOR			•	<b>.</b>
			Langt	ude	Lattude	
	227	4		47.823566666666666	h.	- 4
	6692		35	47.575	154	-
	3850		3833333333333333	47.6833333333333333	I N	*
	5168		8333333333333333	47.433333333333333333	IN	
			a Ceographical	/1 Grid		
Desliny Drockery		C (Lisers (Big Max Desktop				
		Deg format 23% - Quality	Oreate Map Drily 20152 flet Staffte format			
		📽 proj format				
	Calbration file Image file 1984: Giobal Definition Image file Image file Imag	Calbration file Crich Image file Crich 1984: Gibbal Definition • 7 227 0052 3830 5168 Map N Destiny Deectory	Calibration file C: Croft cyborner (Hape Woolmeener, 2008) (Bodermeen, 2008) (Boderm	Calibration Re Desiry Dectory Orst: C 2015; C 1275; C 1275; C 1275; C 1015; C 1275;	Calibration file       C: Cristicytorer (Plage Todersees_2008 (RoderseeWL, 2010 - RoderseeWL, 2010 - RoderseeeWL, 2010 - RoderseeWL, 2010 - RoderseeWL, 2010 - Rodersee	Caleration file       C1005typlorer Phage Toolerases_2008 (buderess_20, 2010 - buderesse_30, 2010 prod         Intege file       C1011_C04475 (bits, 204475 (bits, 20

Finally you click the <u>Create Map</u> bar. The creation of the appropriate two files takes some seconds, be patient and watch the progress bar.

Now you'll recognize the following Warning, simply press OK.



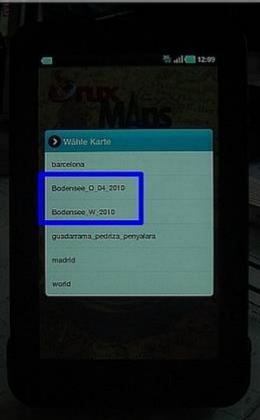
You'll find both OruxMaps files on your Windows PC in the folder, you've named before:

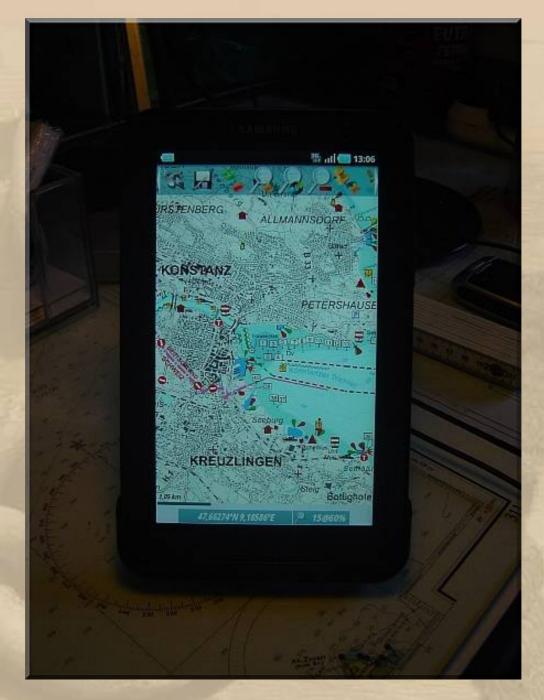
Bodensee_W_2010		▼ + <sub>7</sub> 5	uchen		9
👌 Organisieren 👻 📗 Ansichten	🔻 🙆 Brennen		_	(	D
Ordner 🗸 🗸	Name	Änderungsdatum	Тур	Größe	1
Desktop  Big Max   Öffentlich  Computer  Netzwerk  Systemsteuerung  Papierkorb ANDROID_APK Back-Up Bodensee_W_2010	Bodensee_W_2010.otrk2.xml	07.02.2011 10:51 07.02.2011 10:51	XML-Dokument Data Base File	2 KB 8.565 KB	

As far as my expertise is correct you have to generate a separate folder for each chart, because the file OruxMapsImage.db overwrites previous generated files – please be careful.

Now start your first exercise. It takes some concentration but you'll be successful, no doubt. I managed it foolproof.







I'd appreciate it, if the detour via OziExplorer could be ignored, but perhaps there is somebody out there who knows another solution and is willing to share his expertise with us.

Please keep in mind, that English is not my native language – thanks.

Fair Winds & Smooth Sailing Big Max <u>www.big-max-web.de</u>

February 7th, 2011