

MAPPING KIT

Date: 10/3/2014



The ODC mapping kit has been created as a low-tech, user-friendly way for viewing and customizing maps and sharing them online or printing them for fieldwork. More advanced functions include uploading geotagged photos and annotated maps so that they can be accessed online. Users should have basic familiarity with computers and an Internet connection.



MAPPING KIT INTERFACE

The mapping kit displays selections of ODC's existing data through the <u>Harvard WorldMap</u> interface. The ODC and WorldMap systems are maintained separately, but the interface is automatically updated when ODC uploads new information. User-submitted information shows up on the WorldMap and can be reviewed for future inclusion on the ODC website based on its accuracy and completeness.



HOW CAN THE KIT BE USED?

View, edit, publish, and share data with the world or just a few collaborators



HOW TO ACCESS ODC MAPPING KIT

Go to ODC website: www.opendevcam.net/maps/mapping-kit/

Open Development Cambodia (ODC)

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Make your own maps

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The mapping kit displays selections of ODC's existing data through the <u>Harvard</u> <u>WorldMap</u> interface. For example: Protected Forest, Community Fishery, Economic Land Concessions, etc.

You may check/uncheck the boxes to add/remove the layers for your own mapping purposes.







- 1. Add Layers: to add and create vector data, upload shapefiles and scanned maps, and request data from Geoserver
- 2. Identify: to show the popup information at a particular location
- **3.** Link: to share your result or imbed it in the website
- 4. **Print**: to print a map as a PDF or in another format
- 5. Gazetteer: to search for a place name
- 6. About: to see information about what you have done
- 7. Notes: to add notes or descriptions as points, lines or polygons
- 8. Google Earth: to use Google Earth in the website
- **9. Street View**: to view Google street photographs



1. ADD LAYERS

- OPTIONS Add existing layers made available on the Harvard WorldMap page 1.
- 2. Add layers from Geoserver
- 3. Rectify and upload scanned map

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Wo	rldMap Data External Data Rectify Layer	
Sea	arch for geospatial data	Refine Search By area Limit the search to data that includes features in the displayed area.
	Title	
Ð	Digital Chart of the World (Countries)	
Ð	Provinces 1997	
±	Railways	
±	GUAL Level 2	
±	GAUL Level 1	
±	Population Centroids	
±	10m cultural	
±	WorldMap Projects by Region	
±	Urban Areas	
±	time zones	
Pre	Next Showing 1-10 of 579	

-- ADDING DATA FROM HARVARD WORLDMAP

- 1. Type a keyword for searching the layers
- 2. Check the box
- Click "Add Selected Layers" to add the layer you want to your custom map.



-- ADDING DATA FROM EXTERNAL SOURCES

You can add external data stored on another server by:

1. Click 💿 Add another server

Then the "Add New Server" window will pop up

2. Enter URL for the link and then click "Add Server"

Add Layers				×
WorldMap Data Exter	mal Data Upload Layer Crea	te Layer Rectify Layer		
View available data from:	MapQuest Layers	1 O Add another server	Add Feed	
Title ▲ MapQuest Imagery MapQuest OpenStreeth	MapQuest Layers Bing Layers Stamen Design Layers World Imagery Light Gray Canvas Google Layers GeoServer Web Map Service GeoServer Web Map Service GeoServer Web Map Service Csw		Add New Server URL: Type: • WMS • Arcu Cancel	Z GIS REST © Add Server
Add Layers				

-- RECTIFYING LAYERS

Upload scanned maps with a geo-referenced tool





In order to add layers or create a new map using the <u>Harvard WorldMap</u> tool, each user must register and create an account. Your work will be documented and stored in your account.



-- HOW TO CREATE AN ACCOUNT

MoridMap WARP ome Browse All Maps Upload Map	Browse All La	ayers About		Sign In Create Account	<u> </u>
Overview Welcome to WorldMap WARP, a tool based on the MapWarper platform being developed by Entropy Free. The tool is for digitally aligning (geo-rectifying) scanned historical maps to match today's precise	Search Title Browse All Last Rectified I	→ for Go All maps @ Maps Maps	Rectified maps only	0	WorldMap warp
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rectify. Any map which has been rectified nere can be brought into WorldMap by following the instructions under Section		Lincoln Park Boxing Match View Map Rectify Map Download KML Links: Source / Biblio Ref	34 minutes ago.	4 control points.	Home
.9.1 in WorldMap Help. ags Ivil war New York city Boston Commons		Lincoln Park Skating Rink View Map Rectify Map Download KML Links: Source / Biblio Ref	43 minutes ago.	4 control points.	Name 2

- 1. Click "Create Account"
- 2. Type in your name
- 3. Enter your email address, for example: seilanhiep@gmail.com
- 4. Create a password
- 5. Confirm your password
- 6. Click "Sign up"
- 7. Check your email and verify your account by clicking on the link provided



Password

Sign up

.....

Confirm Password

HOW TO MAKE YOUR OWN MAPS



-- UPLOADING MAPS

- 1. Click "Upload Map"
- 2. Type in title
- 3. Describe your project/map
- 4. Tag your project
- 5. Add details
- 6. Then click "Browse" to see a directory of stored maps
- 7. Finally, click "Create"

Home Browse All Maps Upload Ma	ap Browse All Layers About
ome > Maps	
Upload a new map	
By unloading images to the website, you agree	to the WorldMap Terms and Conditions
by uploading images to the website, you agree	to the wonamap lenns and conditions.
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-- BROWSING MAPS

- 1. Click on "Browse All Maps"
- 2. Type "Cambodia" and click "Go"
- 3. Click on the map. It will bring you to the dialogue box \rightarrow



-- **RECTIFYING MAPS**

- 1. Click "Rectify"
- 2 & 3. Choose 📝 to add a control point and click a point you recognize
- 4. Then click "Add Control Point". Add at least 5 points



Repeat by clicking \square and clicking where you need to mark (X, Y coordinates), as shown in the pictures \rightarrow



- 1. You can check for errors in the "Control Points" window
- Change "Rectify" method from "Auto" to "1st order polynomial" and "Resampling method" to "Nearest Neighbor"
- 3. Click "Warp Image"

-Contro	ol Panel							
Contro	Points		Мар г	ectified.				
Point	Image X	Image Y	Lon	Lat	Error(0.00)			
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Warp Image! \rightarrow 3								
This m Apply	nap either is not clipping mask w	currently masked. Do you hen rectifying? \bigcirc Yes \bigcirc N	ı want to add or edit a r lo	nask now?				

Double-click on both maps, then click Add Control Point . Do this for at least three points.

-- **EXPORTING MAPS**

Click on the "Export" tab

Download the file type you want in formats such as GeoTiff, KML or PNG

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• KM • WM • Tile	 KML: Download KML file (View KML in Google Maps) WMS: WMS base URL (for JOSM OpenStreetMap Editor) Tiles (Google/OSM scheme): Tiles base URL 								
Bibliogr	aphic:								
• Bib	liograph	ic							

OTHER FUNCTIONALITIES



2. IDENTITY

By clicking on the Identify tool, you can see pop-ups with information related to the layers you have selected.

		\times
Identify Results	Feature Details	
Reset	PROV_NAME	Kampong Thom
Name	Establishm	22284.0
	Total	48187.0
🖃 Provinces	Male	20861.0
Kampong Thom	Female	27326.0
	References	Economic_Census_of_Cambodia_2011_Kamp
	PROV_CODE	06

3. LINK

By clicking on Link tool, you get the URL to embed this map in your website.

Link to Map									
Paste link in email or IM:									
http://worldmap.harvard.edu/maps/odcgs/KHB									
Paste HTML to embed in website:									
<pre> </pre>									
Map Size Large Y Height 400 Width 600									



By clicking on the Print tool, you can print any particular area selected from the map.

Print	×
Press OK to print this page as is. If you would like browser's print button when you are ready	to adjust the map extent, press Cancel, then use your
<u>ок</u>	Cancel

- Click "OK" if you are ready for print.
- Click "Cancel" if you need adjust.

EXAMPLE



5. GAZETTEER (PLACE NAMES)

By clicking on the "Gazetteer" tool you can search for place names and do geocoding



6. ABOUT

By clicking on the "About" tool you can see information, which you have described earlier, about your map/project.

The "About" pop-up box is not necessary but can be useful if you want to include an introduction to your project.

The C custo adva they Inter	ODC mapping kit has been created as a low-tech, user-friendly way for viewing and comizing maps and sharing them online or printing them for fieldwork. More anced functions include uploading geotagged photos and annotated maps so that y can be accessed online. Users should have basic familiarity with computers and an rnet connection.	^
WorldN	Man is an open source web mapping system that is currently under construction. It is	-
discove disciplir	o assist academic research and teaching as well as the general public and supports very, investigation, analysis, visualization, communication and archiving of multi- inary, multi-source and multi-format data, organized spatially and temporally.	
The fire	rst instance of WorldMap, focused on the continent of Africa, is called AfricaMap. Since	
geogra Harvar well as	aphic locations with different research foci, including metro Boston, East Asia, Vermont, rd Forest and the city of Paris. These web mapping applications are used in courses as s by individual researchers.	
Intro	oduction to the WorldMap Project	
WorldN of publ	Map solves the problem of discovering where things happen. It draws together an array olic maps and scholarly data to create a common source where users can:	
1. 2. 3	 Interact with the best available public data for a city/region/continent See the whole of that area yet also zoom in to particular places Accumulate both contemporary and historical data supplied by researchers and make it 	

7. NOTES

By clicking on the "Notes" tool, you can draw points, lines or polygons as the notification for events on the map window



8. GOOGLE EARTH



9. STREET VIEW

Click on any street to see the photograph taken on the street.



THANK YOU

For inquires and feedback, please contact us at one of the followings:



