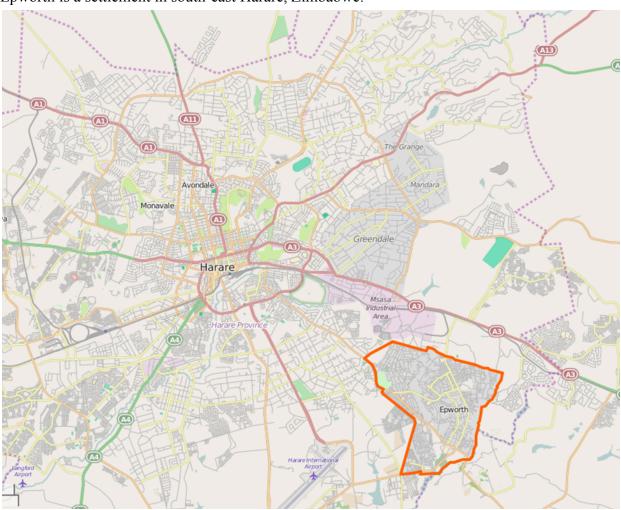
Mapping in Epworth - Field Papers

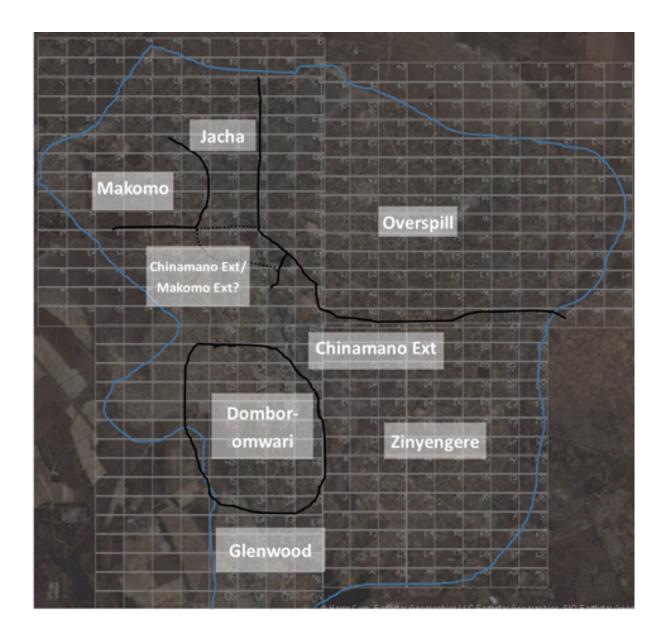
List of useful links

How to get started with Field Papers for Epworth
Dropbox of field papers
OSM Wiki Page

Epworth is a settlement in south-east Harare, Zimbabwe:



Epworth is made up of several areas, which are VERY ROUGH designations at the moment:



1. To get started:

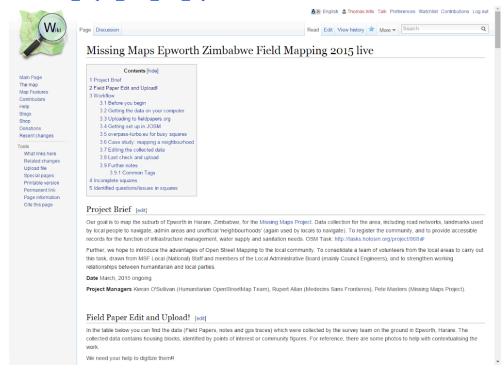
- 1. Choose a tile from the Wiki page to edit
- 2. Visit the 'How to get started with Field Papers in Epworth' page to set up JOSM
- 3. Start tagging! (see below)
- 4. When you finish your session, add what you've done to the wiki

2. How to Tag

Step 1: Choose your tile

There are many tiles which have been scanned in for completion. To keep track of which ones have been completed, started but not completed, or not even started there is a Wiki page with the information in a table:

https://wiki.openstreetmap.org/wiki/Missing Maps Epworth Zimbabwe Field Mapping 2015 live#Field Paper Edit and Upload



Scroll down to the table in the *Field Paper Edit and Upload!* section. There are four columns. The first is the Quarter in which the field paper in question is located. Epworth has been broken down into four adjacent grids, NW, NE, SW and SE. Each grid comprises several tiles whose location is described by a letter (latitude) and a number (longitude). The table rows are ordered by Quarter, and then by letter, also known as a 'pack'. Each pack row shows which tiles are available to be worked on. The third and fourth rows show the people who have worked on this pack and any comments they may have made, respectively.

Quarter	Pack & tiles surveyed	User	Notes		
NE	A	(e.g. Professor Your Name)	(any questions about this pack for the validators or subject matter experts)		
NE	B (B2)	Ralph Aytoun	B2 INCOMPLETE -plot numbers on plan go up to B108 but detailed survey list stops at B63. Reached plot B55 on survey list which is missing on plan so have not added house numbering or building material from here. Have added tag for brick:type=unburnt as this brick is unstable in heavy rain. I have put all tags on nodes for consistency although polygon houses are good in this area. Only B2 in this pack.		
NE	C (C1)	Matt Witchell	added C1 and C2		
NE	D (D1, D3)	Ralph Aytoun	D1 D3 Nodes Complete - Added nodes with detail, no boundaries added.		
NE	E (E1)	Nick Allen	Although the grid shows an E2, E3, E4 etc, there is only E1 in the packs		
NE	F (F6)	Daphne Allen	have started & will continue at mapathon on 21/07/15 - folder only has F6 in it. Now complete		
NE	G (G1)		23/07/15 - no map in folder so cannot see where to put the nodes. Leaving. Nick Allen		
NE	H (H8)	Nick Allen	23/07/15 all complete, except have not added the field area=E but everything else okay.		
NE	I (I5)	Nick Allen	03/08/15 attempted but given up! PLEASE REVIEW - Duplicated numbers on map & two sheets with B1 to about B13.		
NE	J (None)	Nick Allen	Nothing in dropbox		
NE	K (K8)	Nick Allen	Duplicated numbers and sheets making it difficult. Needs a review to work out which numbers to use.		
NE	L (None)				
NE	M (None)				
NE	N (N6)	Ralph Aytoun	23/07/2015. Folder only has N6. N6 Complete except ID-B17 and a bit of confusion with numbers bottom right corner.		
NW	A (None with survey)				
NW	B (None with				

Pick a tile from this list that isn't noted as already completed (I find it easiest to write it down because you'll need to for several of the steps coming up).

Now move on to the next step.

Step 2: Getting started with Field Papers in JOSM

UPDATE FOR 20TH OCTOBER:

We have Field Papers codes in the wiki page in the big table! Please use these.

If you have downloaded the Feld Papers plugin:

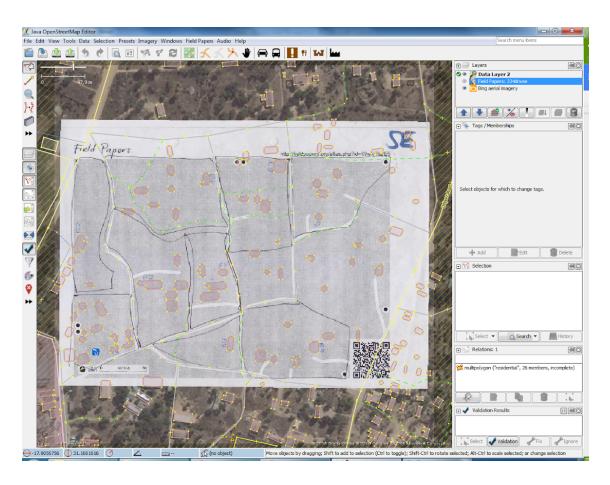
Use the codes found in the wiki page for each tile. You don't need to both uploading to Field Papers! So start the 'How to get started with Field Papers in Epworth' at Part 3, Step 4.

If you haven't: Just miss out Part 3 Steps 1-3

These instructions are available in a separate document - 'How to get started with Field Papers in Epworth' document. If you haven't read it, please do so now and follow the steps.

Step 3: Translating survey information into OSM tags

For this, I'll use the SE E5 tile as an example, but you can use a different tile. Mine looks something like this:



The survey looks like this:

-	Paper# Surv	eyors' Names		Smartphone	e# Date		
		Construction	Neighbourhoo	od/Street	Area	Ward	
BI	1598	Camman Bricks	MR Mh	langa	Chiamano	. 4	
B2		Conner Boricks	School &	Haft pr	Chimanana		
B3	1608	Cuman Bricks	Me J	ulians.	Chinamare		
84	1611	Camman Bricks	MR To	podzi.	Chinaman	04	
35	1608	Comman Brocks	Legich	manya	Chinana	04	
B6	1606	BNCKS	Mr Mc	bential	Climanan	0 4	
B7	1643A	Common Bricks		ube	Change	14	
88	1642	Comman	mr S		Children Orden	0 4	
B9	1638	Bricks	MR CI	Wrwer	Chimanand	4	
810					0		

Please read the section at the end of this document entitled *Tagging stuff- the tags* for an explanation of which tags to use in which circumstances.

Immediately, a few things pop out at us.

Firstly, there's loads of names of people! This is quite uncommon, but not something we can't deal with - they go in under the loc_name tag. They've used the Neighbourhood column because there's nowhere else to put the information. This means that the neighbourhood information has been s This isn't a massive deal - you just have to work out what the surveyor was trying to get across!

Secondly, the 'area' these buildings are in seems to be called 'Chinamano Origin' or 'Chinamano Original'. Although this isn't one of our hamlets, Chinamano is. So here' we can assume that 'Chinamano Origin' is a neighbourhood within the hamlet of Chinamano since the names are so similar. And we should put them all as 'Chinamano Origin' rather than 'Chinamano Original' because although we don't know which is correct, there's only one 'Original' and eight 'Origin' names on the survey.

Next, we see that most of the buildings have numbers, but not all of them do. That's okay because the building without a number is a school building. They all have construction materials recorded and are in Ward 4.

The ID# does not need to be recorded in JOSM - it is simply an ID used to match up the buildings on the hand-drawn map with those in the survey paper. They have no other meaning.

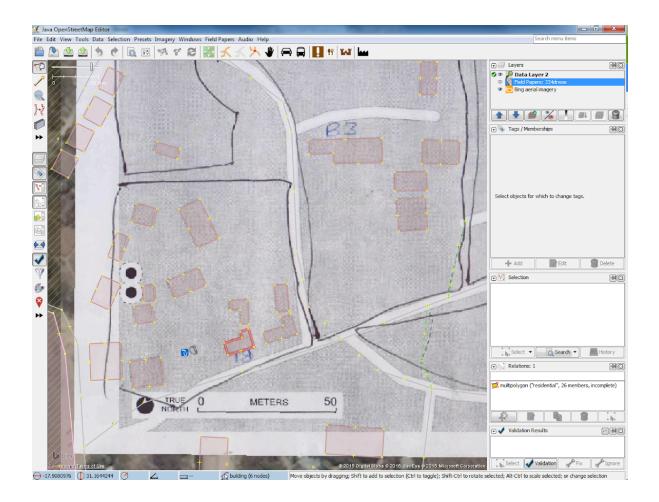
So now we know what the main tags will be:

source=survey
building=residential (except for B2)
building:material=brick (except for B9)
addr:ward=4
addr:neighbourhood=Chinamano Origin
addr:hamlet=Chinamano
name= a number (except in the case of B2)
loc name= someone's name (except for B2)

Now we have to put the information into JOSM. I find it easiest to work from the top downwards!

Step 4: Entering the tags into JOSM

Return to JOSM, with the field paper overlaid, to find B1:



Now we have to create a node in which to put the information. It appears that the building highlighted is the relevant one - it's quite large and is right by the B1 marker. To create a node,

click the draw nodes' button like this: in the top-left of JOSM, or press the A key on your keyboard. Your cursor should now turn to a crosshair.

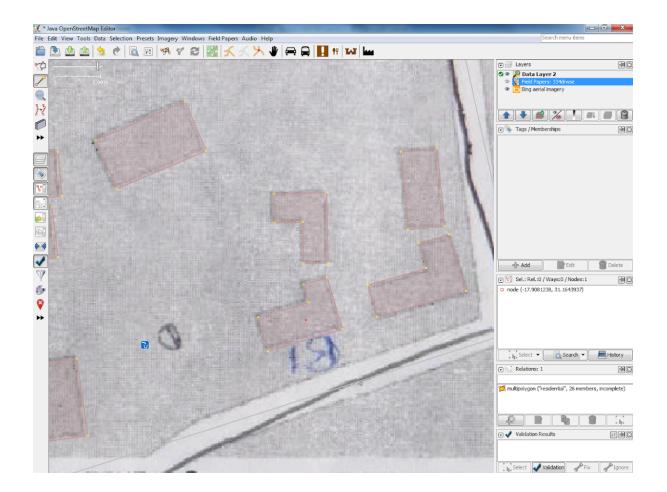
Please create new nodes within, but not attached to, the building you are tagging. This is the standard we are using at the moment.

Double click to add a node where the cursor crosshair is. You don't want the building in which you're placing the node to be highlighted when you do this. If you can't manage to un-highlight the building, zoom in two or three steps and try again. Go back to select mode by pressing S or

the button that looks like



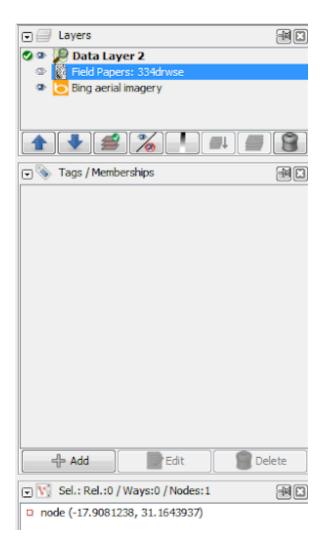
. The node should look something like a small red square:



It's red rather than yellow because it's automatically selected for editing. If you change to select mode, you can deselect the node and it will turn yellow. To select it again, ensure you're in select mode and single click on the node.

You can move the node when you're in select mode and have it selected by dragging it across the screen.

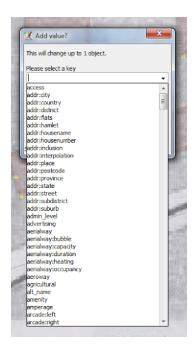
Now we need to add the tags to the node. To do this, ensure that your Tags/Memberships section is open. It is on the right hand side under layers and above Selection.



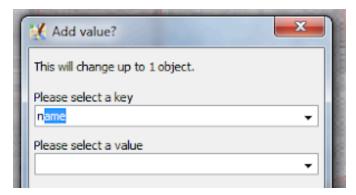
With the node selected, click the '+ Add' button and a box will appear, looking something like this:



This is where we add tags. The top field is for the tag type, and the bottom one is for the value of that tag. If you look at the drop-down menu you will see dozens of tag types:



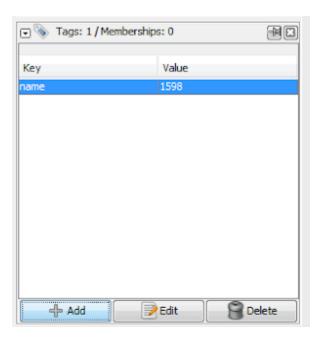
You can also just start typing one, and it may autofill the correct word:



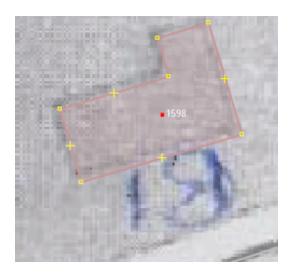
To select that tag type, either press Tab or click in the bottom box. Then, add the necessary value. In this case, it's 1598:



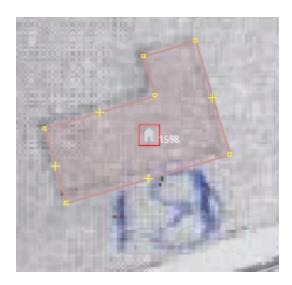
Click OK or hit Enter to confirm the new information. You will see it pop up in the Tags/Memberships section on the right hand side:



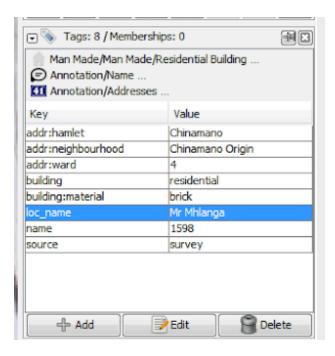
Depending on what type of tag it is, it may have modified the node's appearance too. In this case, the name appears next to the node:



Next we add the other values. building=residential also affects its appearance:

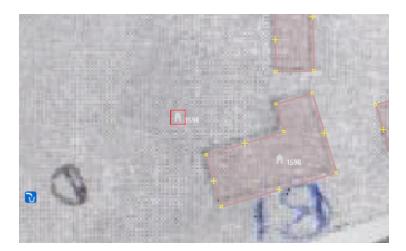


Eventually, the list of tags should looks something like this:

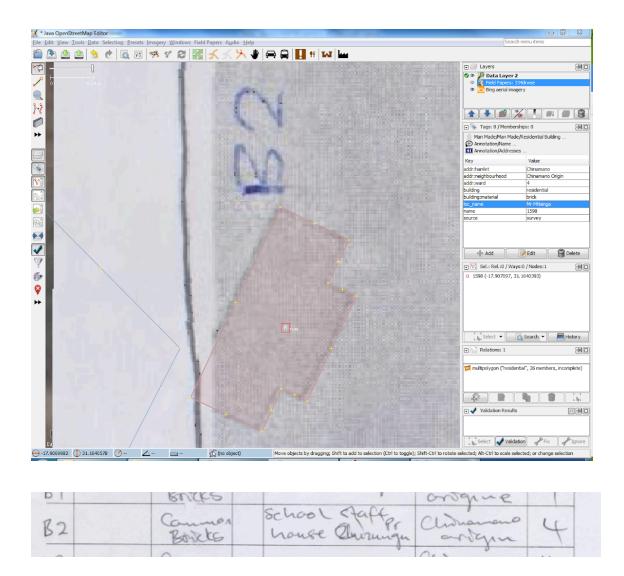


Well done! You've tagged your first building.

When you do your subsequent nodes, it is often easier to copy a node than to start from scratch again. For example, we can copy our recently-created node by selecting it, pressing Ctrl-C (Command-C on a Mac?), placing our cursor where we want to build the new node, and pressing Ctrl-V (Command-V) to create it:



It has all the same attributes as the original node except for its location. So you'll need to change some of the tags to update it to the relevant information. I've dragged the node to the correct place, in this case in the building B2:



It's still in Chinamano Origin (and therefore Chinamano too), and also still in Ward 4. It's made of bricks too, so none of these tags needs to change. We will need to change the name, the building type and remove the loc name tag.

To remove a tag, highlight it in the list of tags and click the delete button

To edit a tag, highlight it in the list and click the 'edit' button (no surprises there). The dialog box reappears, and you can now change whatever you need to, and then click OK to confirm the change.

Here, I've changed the name to 'School Staff House'. This could arguably go as a loc_name but I've put it in as a name as this is likely to be the primary identifier of the building. If it had a

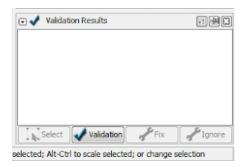
number like the local houses, the number would go under name and School Staff House under loc name.

Keep doing this with all the lines in your survey until you've finished it!

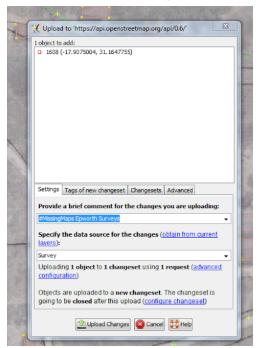
Step 5: Uploading your work

Now you need to upload your work to the server. Press the upload button in the top left of JOSM

You may get some validation errors - please fix these if you can! They will be detailed in the Validation box in the bottom right of JOSM:



Once those are dealt with, this screen should appear, with all of your work summarised:



This shows only one node being uploaded, but yours should show as many as you've created. Please write #MissingMaps Epworth Surveys in the comment box, and write Survey in the data source. If you've used Bing imagery for anything, include that as well, separating them with a semicolon and a space, i.e. Survey; Bing

Press Upload Changes to upload your changes. If you're not logged in, you may be asked to enter your OSM login details first.

Step 6: Updating the Wiki page

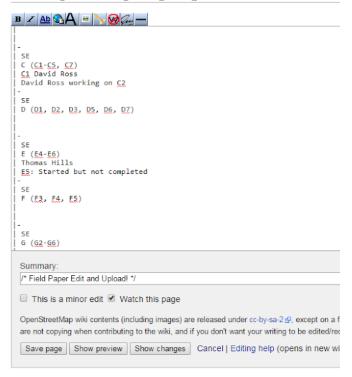
Now you need to tell people what you've done! The record is on the OSM Wiki site, for which you need a separate login, so you'll need to register for that if you haven't already. The page is here:

https://wiki.openstreetmap.org/wiki/Missing_Maps_Epworth_Zimbabwe_Field_Mapping_2015_live



Scroll down to Field Paper Edit and Upload! and click on the 'edit' button. The edit box, which is almost identical to that of normal Wikipedia, will appear. Scroll down to the row which represents your square (in this example it's SE E) and complete the details in a similar fashion to that shown here:

Editing Missing Maps Epworth Zimbabwe I



In other words, there's four columns: the first says which quadrant the information is from, the second is the letter designation (E in this case) and which squares are available. Put your name in the third column and your comment in the fourth one. The click 'show preview' to check what you've done, or click on Save Page to save your edit.

Well done - that's it!

Tagging stuff - the tags

Please create new nodes within, but not attached to, the building you are tagging. This is the standard we are using at the moment.

The hierarchy of 'informal' regions is:

Hamlet > Neighbourhood/Street > Building

Wards are a formal (official) designation and don't necessarily conform to the informal regions.

There are 15 hamlets that have been identified:

Overspill	Makomo Extension	Pamayuta/Pamajuta		
Muguta	Chinamano	Pentagon		
Muguta Extension	Chinamano Extension	Domboramwari		
Jacha	Zinyengere	Glenwood		
Makomo	Nyikavanhu	Glenwood Park		

These should be put in using the tag addr:hamlet e.g. addr:hamlet = Chinamano

All other regions are neighbourhoods. They should be put in using the tag addr:neighbourhood e.g. addr:neighbourhood = Zuidozenath . Note that neighbourhood is spelled the UK way!

Other tags that should be used are:

name =

This should be a number in the case of Epworth, e.g. 2114.

loc name =

This should contain any extra information. For example, the name of someone who lives there. Also put in information such as that a water tank is located here.

building =

This is what the building is being used for, e.g. building=residential.

If your building is under construction, use the tag building=construction and the additional tag construction=, e.g. construction=residential.

addr:ward =

Here, put the ward number. For example, addr:ward=4.

source=survey

Please add this to all nodes you add based on the field papers.

building:material =

This is the type of material the building is made out of. There is a list of common tags here: https://wiki.openstreetmap.org/wiki/Key:building:material

How can we handle data that don't make sense?

Remember - maps are an **interpretation of reality** and are a reflection of the mappers as well as what is actually on the ground! Your effort is vital.

Contextualise and interpret what you're seeing

- Consider other **entries next door** by same person if a house is in the same complex, it is probably in the same neighbourhood/ward
- **Personal style** look at other entries or papers by the same surveyor for clues to how they record information
- Consider **consecutive field papers** for greater regional context
- Some information should be under an "alternative name" (loc_name=) or other qualifier tag
 - E.g. a tuck shop can be put as a kiosk
- If something is crossed out, this is likely to be for a reason don't include it!

Consult other sources

- Consult base map data (e.g. if Chiremba Road runs past all of these, that's a hint!)
- Consult Mapillary images or other audio-visual results (e.g. "Experia" geotagged photos)

Importantly, **don't worry**! These maps are relatively rough, despite the number of addresses. They can be, and will be, refined by volunteers here and in Epworth.

Without formal administration of many of the areas, there are **no formal boundaries**. Even formal boundaries don't always count - how many of you officially live in an area called one thing but you call another?

If still in doubt, ask!