GVG, an agricultural information collection APP

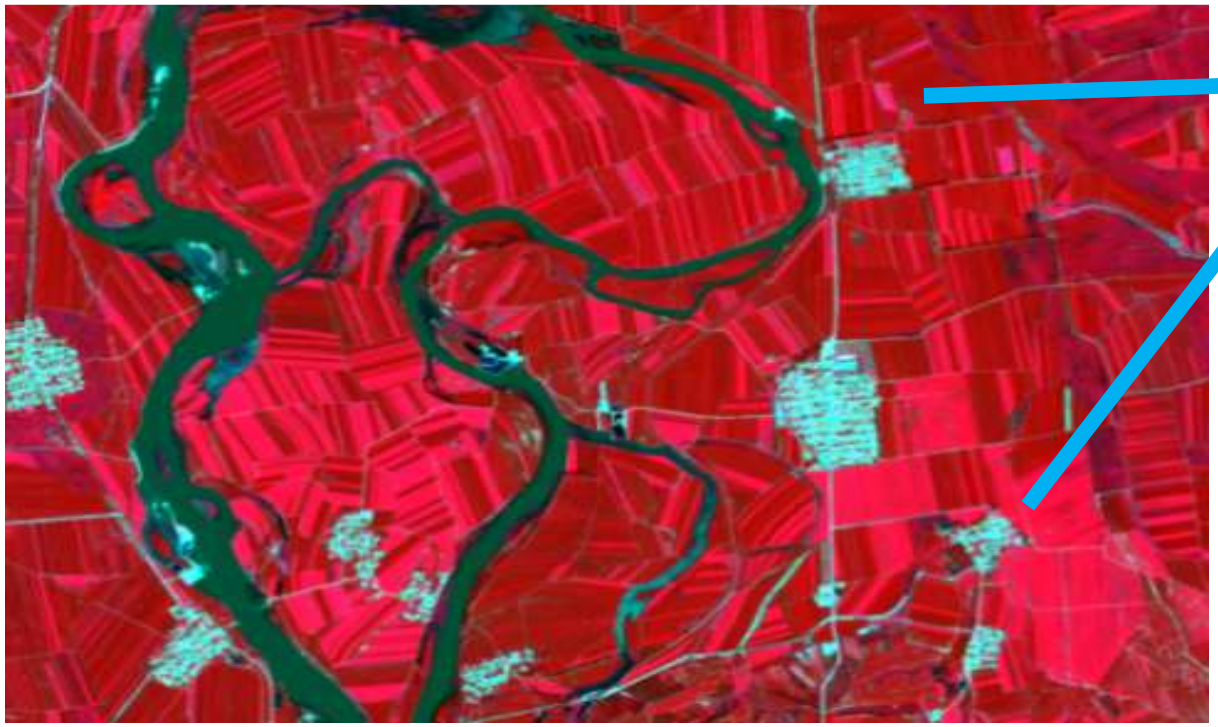
Miao Zhang, Hongwei Zeng, Fangming Wu, Bingfang Wu

Aerospace Information Research Institute, Chinese Academy of Sciences

Outline

- Background
- Development of GVG Software
- Tutorial of GVG APP
  - Installation
  - Registration and activate your account
  - Settings
  - Data collection, backup to cloud and export

- **Remote sensing can benefit agriculture a lot**
- **But can do more by integration with field survey data**



False color combination of S2 over Heilongjiang Province

What kind of vegetation? Crops or trees?

Field survey is needed

A efficient tool to collection field information?

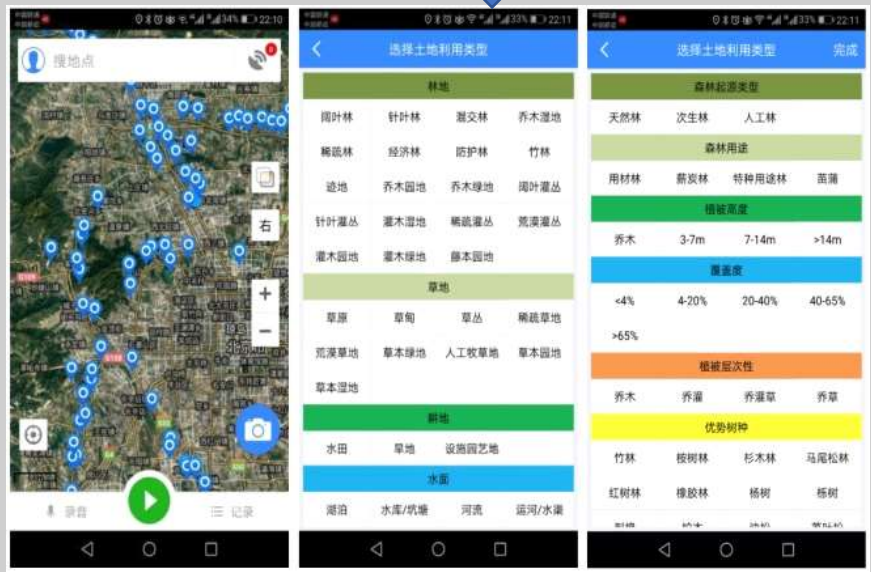
Background

Development of GVG software

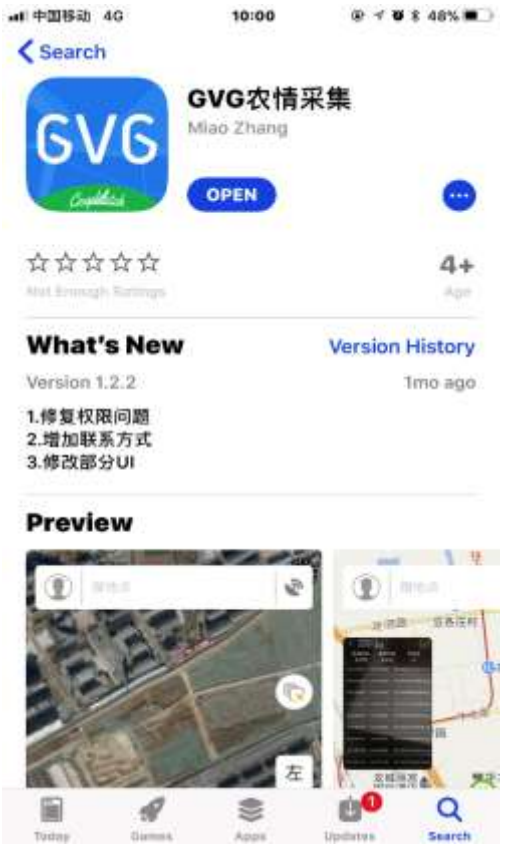
What is GVG stands for? GPS, Video, and GIS

Development of GVG software

To make it portable



GVG APP



Installation

Search ‘GVG’ on iOS store or Google Play store

Where to download:

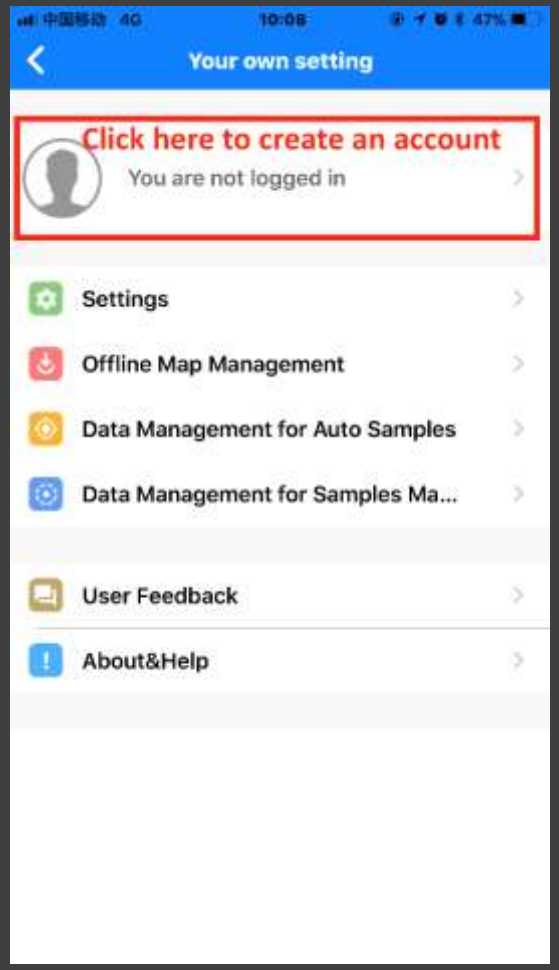
Google Play: https://play.google.com/store/apps/details?id=com.sysapk.gvg

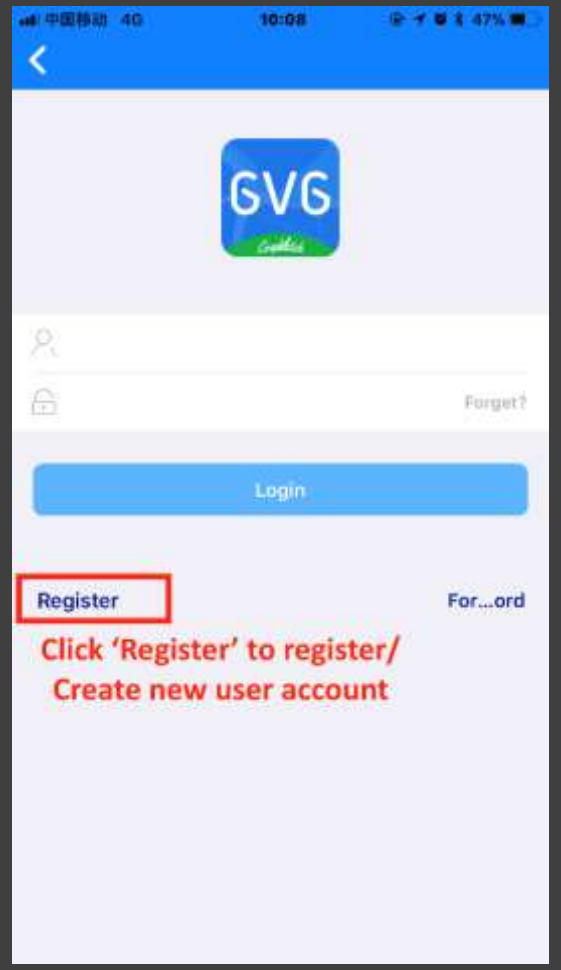
苹果App Store: https://itunes.apple.com/cn/app/gvg%E5%86%9C%E6%83%85%E9%87%87%E9%9B%86/id1244686128?mt=8

华为应用市场：http://appstore.huawei.com/app/C100239505

豌豆荚：http://www.wandoujia.com/apps-com.sysapk.gvg

PP助手：https://www.25pp.com/android/detail_7710762/





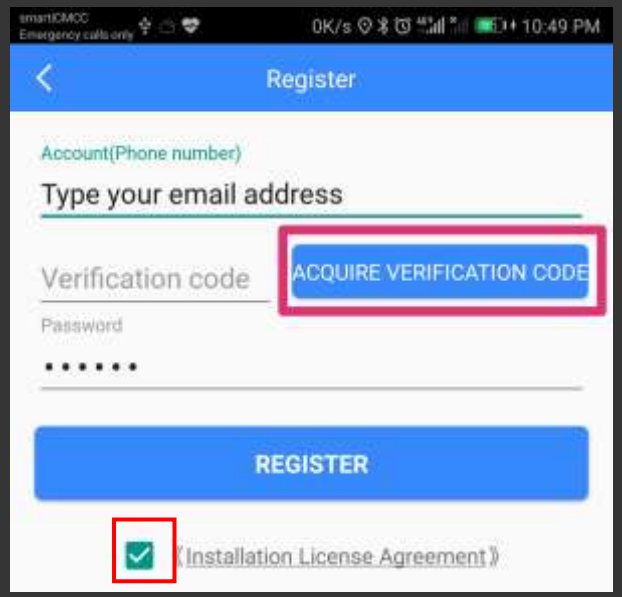
Registration

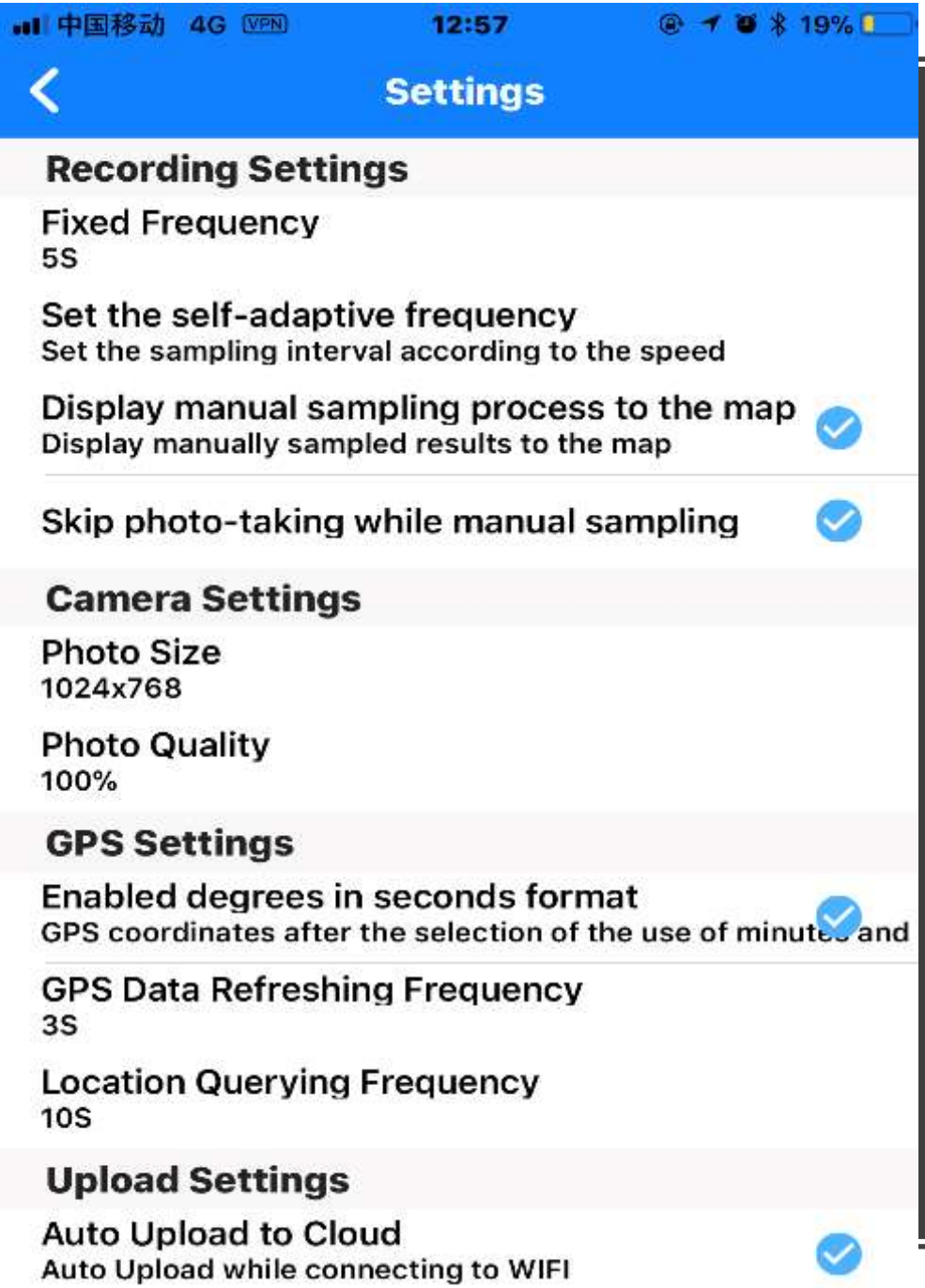
Registration and activate your account

- Register using your email address as your account
- Send an email to gvg@radi.ac.cn with your email account requesting activation
- Wait for activation until you get confirmed email and login

- Test account:

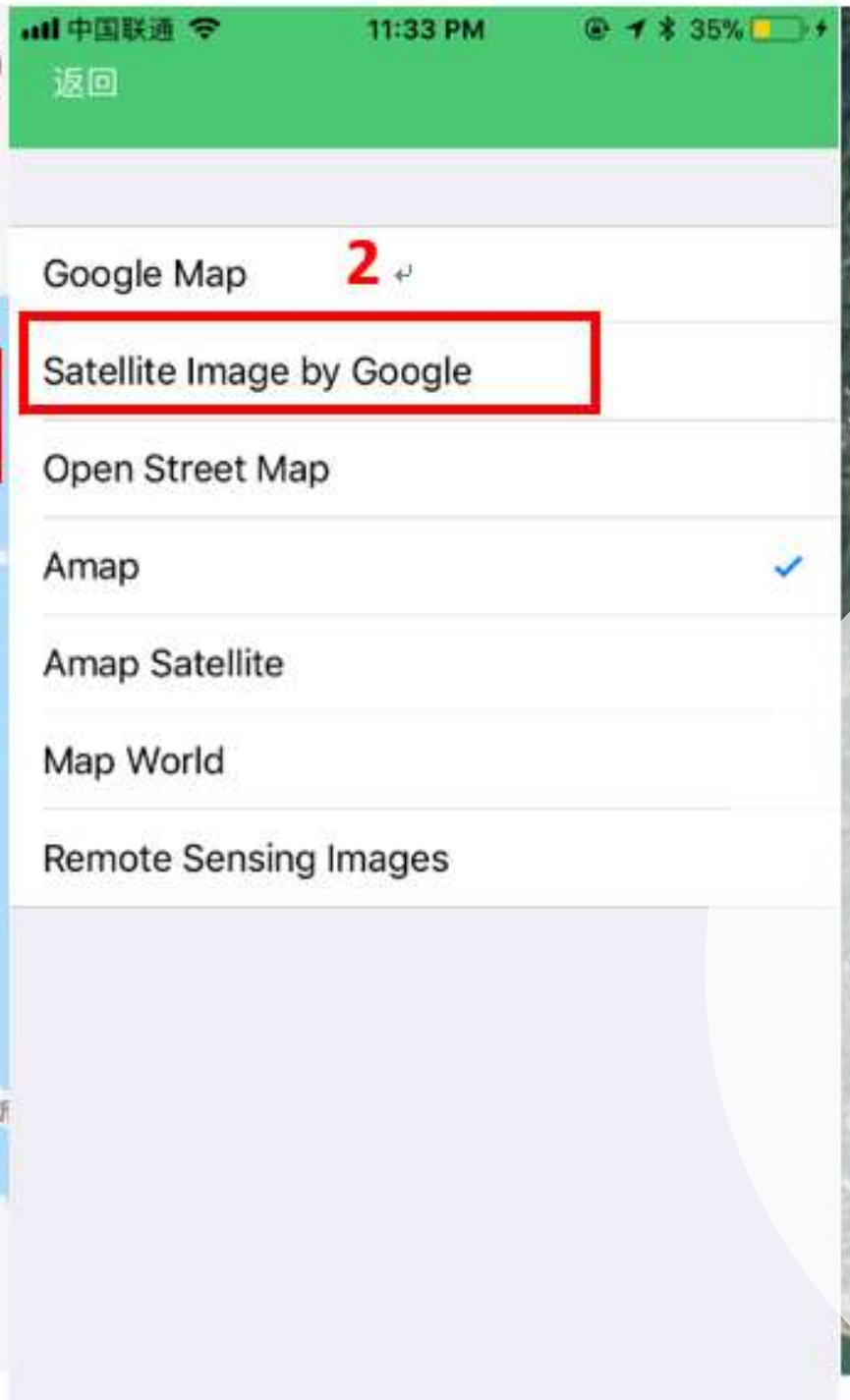
  User name: 13426023663
  Password: 666666

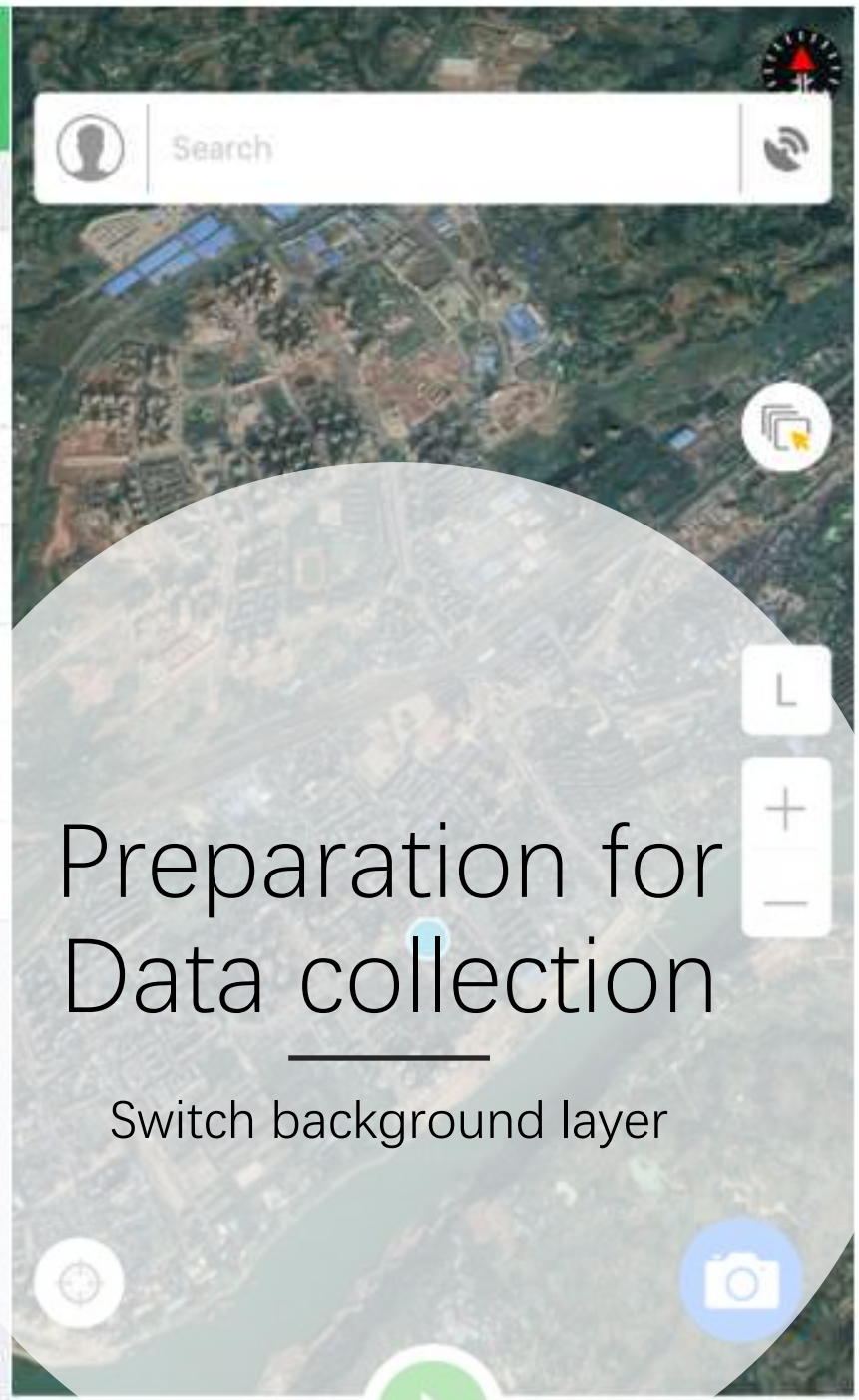




Settings

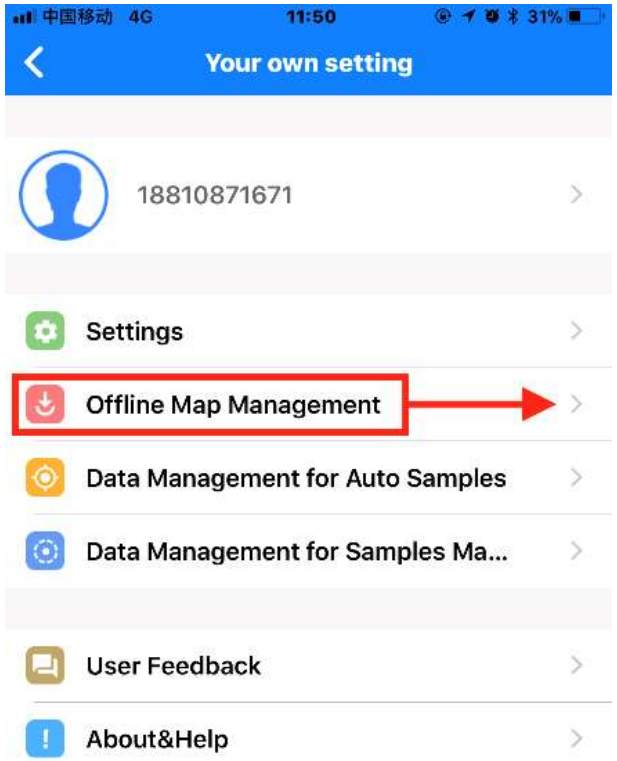
- four main settings, each one regarded to one task: Recording Settings, Camera Settings, GPS Settings and Update Settings.

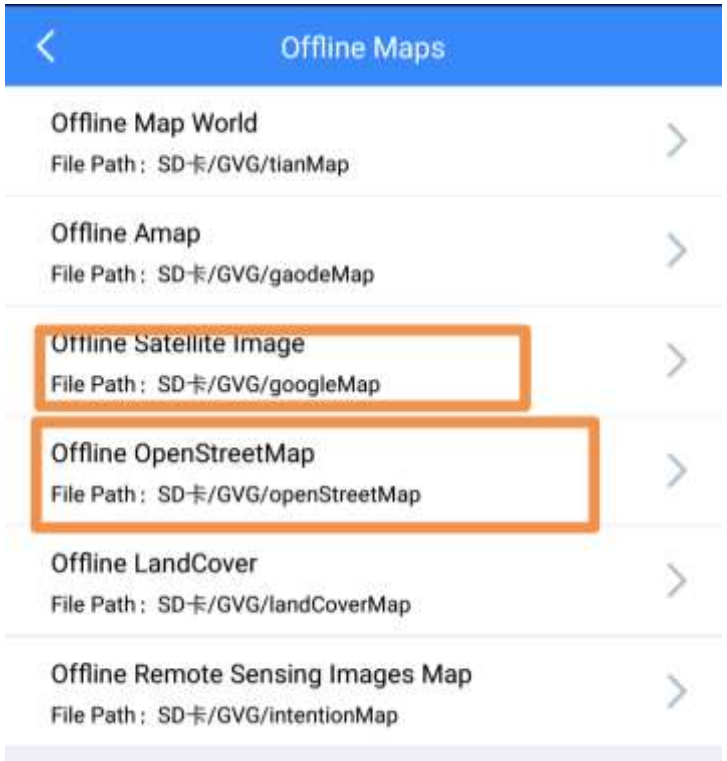




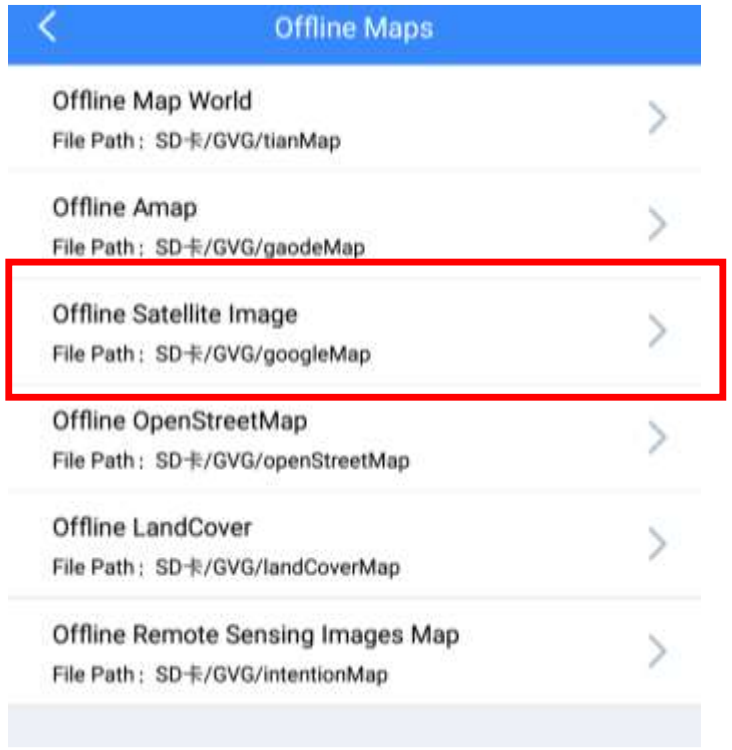
Preparation for Data collection

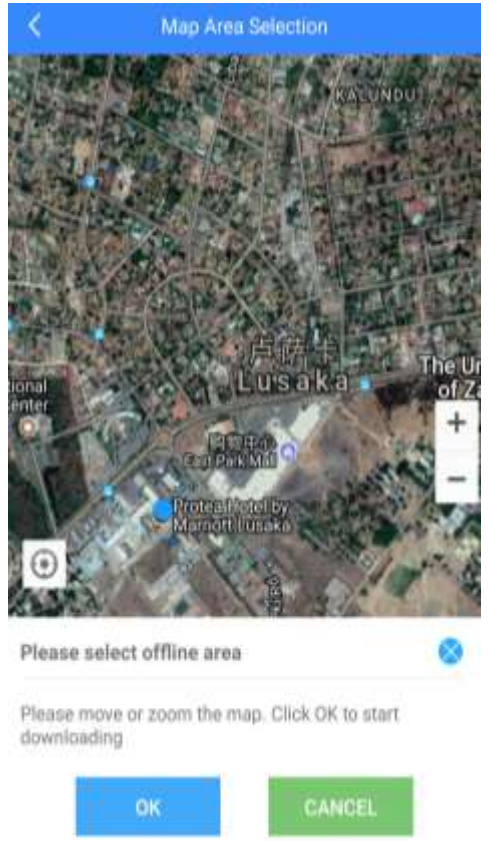
Switch background layer





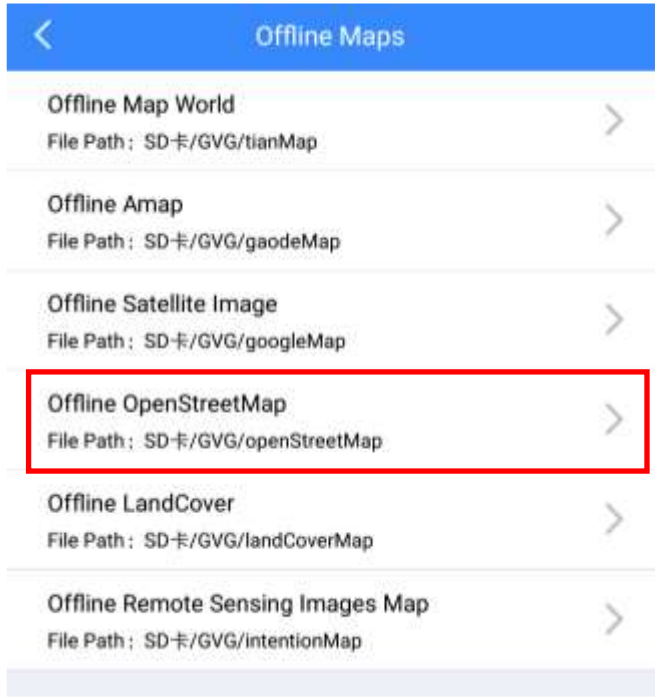
Offline Map Management

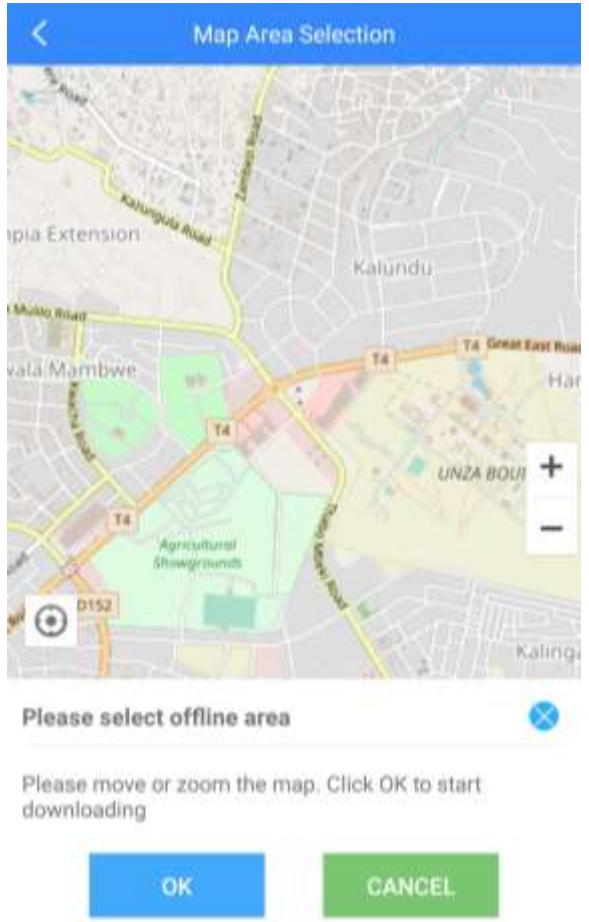




Offline Map Management

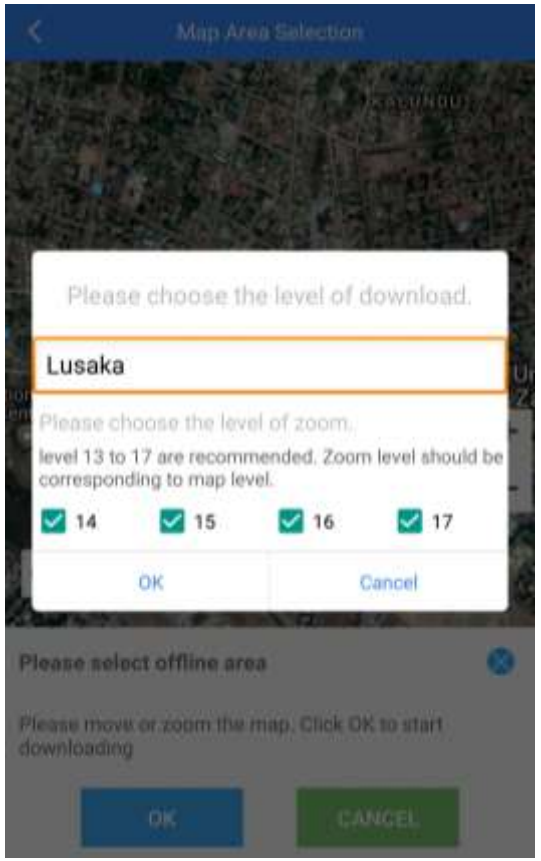
Google Satellite Image

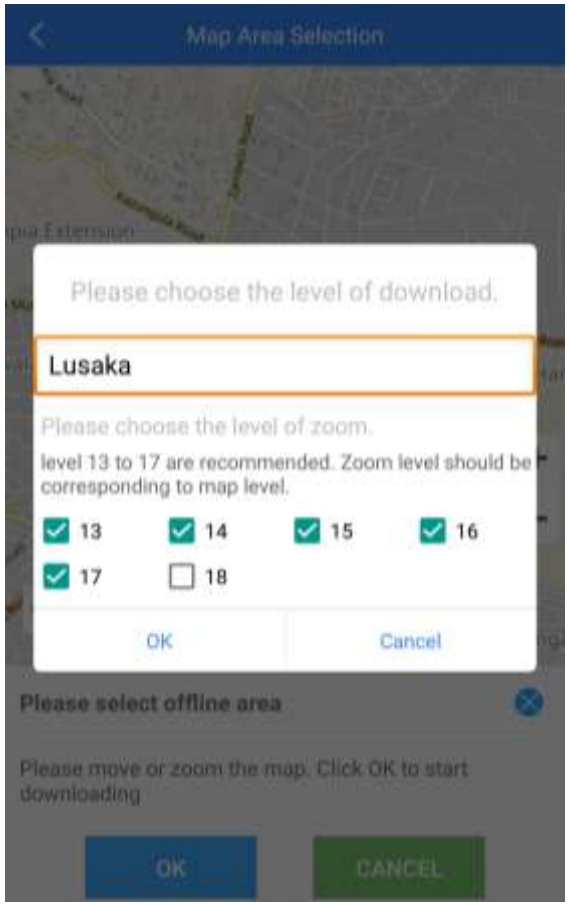


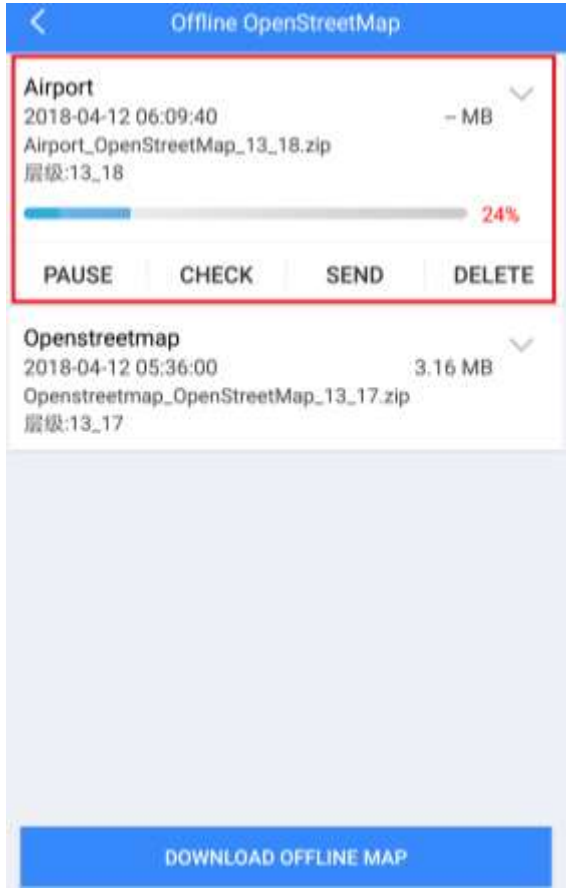


Offline Map Management

OpenStreetMap







Offline Map Management

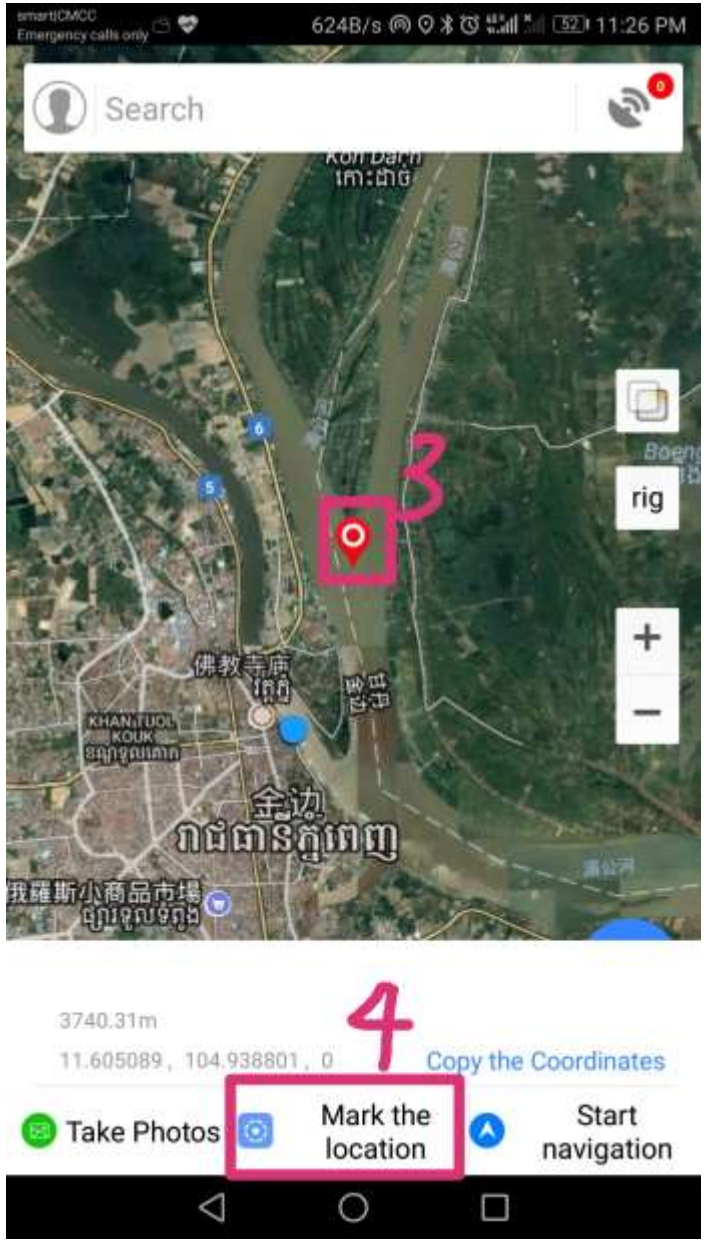
Start downloading

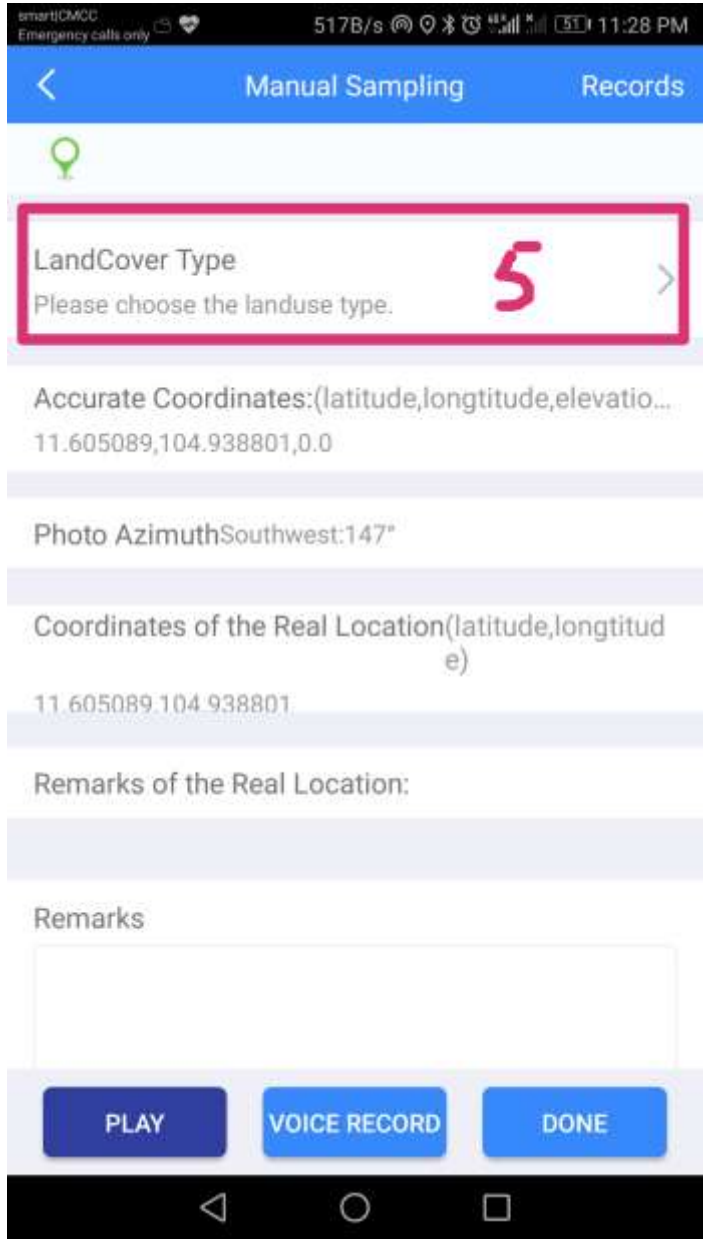
Data collection

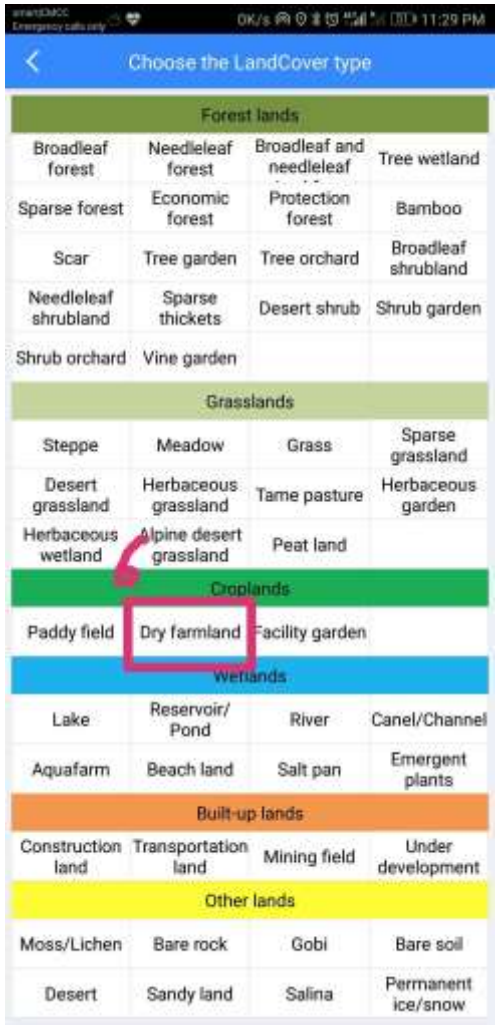
- Land use and land cover data
- Crop type proportion

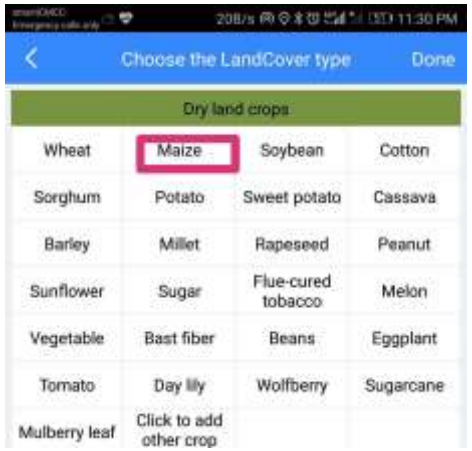
LULC Data collection

To mark the sample on the map, click and hold for seconds, click [4] to start the navigation. The [5] is Landcover Type selection part.









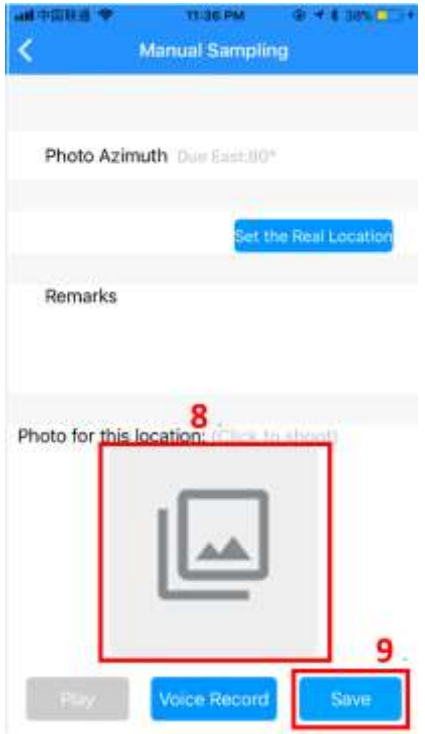
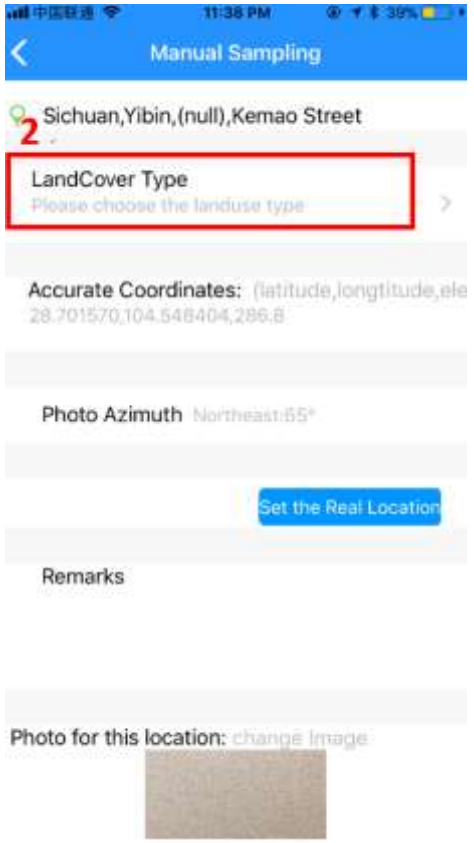
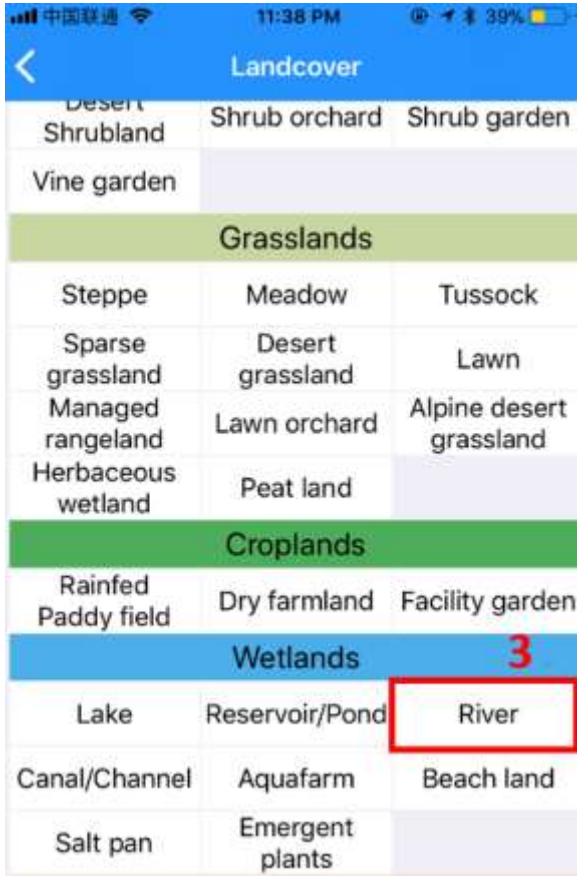


Photo can be also added [8]. After all, to click save button to keep your information saved [9].

Mark the sample





Another option to collect data

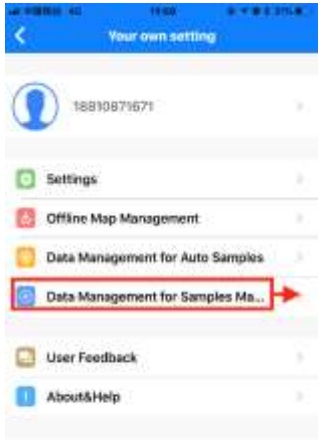
Take the photo first

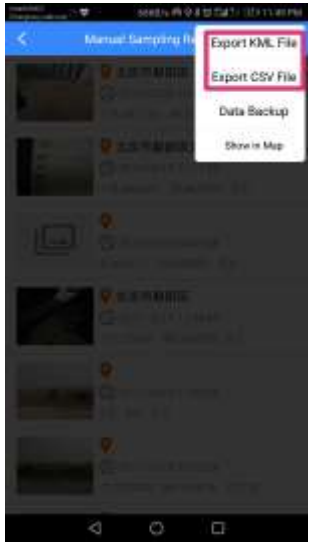
Crop type proportion

allows uses to record images automatically in every stated time as shown below

Backup your data to cloud and export to external files

- open the settings and Choose Data management for manual samples to backup your data
- After backup is done, points can be exported into KML or csv file





Search
Voice Record
Text Record

Thanks for your attention!