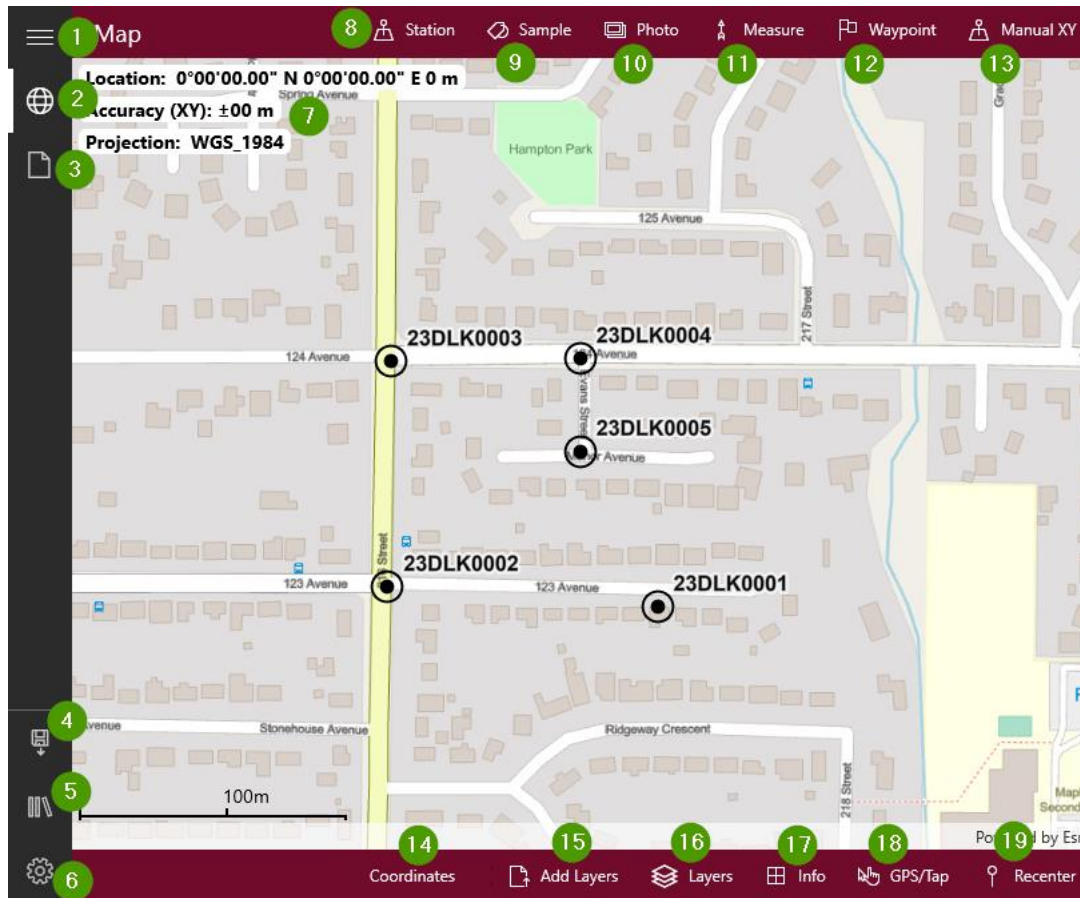


# GSC FIELD APP GUIDE

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## APPLICATION NAVIGATION / MAP PAGE



**Navigation Bar** → Summary of application pages.

1. **Navigation button:** Toggles the side navigation bar on or off.
2. **Map button:** Navigates to the map page.
3. **Field notes button:** Navigates to the field notes page.
4. **Backup button:** Backs up data to a pre-set location.
5. **Field books button:** Navigates to the field books page.
6. **Settings button:** Navigates to the application settings page.

**Map Header** → Quick tools that acquire a GPS location and popup appropriate information dialogs.

7. **Coordinates display:** Your coordinates, GPS precision and projection information.
8. **Station:** Opens a dialog to enter current visit information.

9. **Sample:** Opens a dialog to enter any sample related information. An empty station record will also be created.
10. **Photo:** Opens a dialog to enter photo-related information. An empty station record will also be created.
11. **Measure:** Opens a dialog to enter structure-related information. Empty station and earth material records will also be created (an earth material can have multiple related measurements).
12. **Waypoint:** Opens a waypoint dialog to enter brief notes. A waypoint is only a GPS location with a single note option. It can be used to enter geological observations between stations or to locate and describe drop bag locations.
13. **Manual XY:** Opens a dialog to allow manual entry of XY coordinates as Lat/Log or Easting/Northing.
14. **Coordinates** → Change how coordinates are displayed. Choice is between Degree Minutes Seconds (DMS), Decimal Degrees (DD) or Meters (UTM).
15. **Add Layers:** Adds a read-only background layer (.tpks) or geopackage (.gpkg).
16. **Layers:** Opens a fly-out menu that shows loaded layers. Each layer can be toggled ON/OFF, reordered, or deleted.
17. **Info:** Disables/enables map content information like background grid lines, current coordinates, and map scale.
18. **GPS/Tap:** Fly-out menu with GPS options: ON/OFF, re-center map content on current location. Navigation mode, compass mode.
19. **Recenter:** recenters the display on the collected data.

Disabling GPS will enable user to enter quick information (top bar) with a tap on the map content.

**Map Content** → Shows current location, added maps and other GIS-related information.

- **Green dot:** Current GPS location within a 10 m accuracy
- **Yellow dot:** Current GPS location between 10 and 30 m accuracy
- **Red dot:** Current GPS location with an accuracy lower than 30 m.
- **Circle around dot:** Current GPS location with an accuracy lower than 30 m.
- **Upper left text:**
  - Location coordinates in degrees, minutes, and seconds (DMS) with altitude in meters.
  - Accuracy of coordinates in meters.
- **Bottom left text:** Current map scale.

- **Clicking/Tapping on a station:** Opens a small bubble summary indicating the number of records already entered for each observation table (i.e., earth material, samples, photos, structures, etc.). Clicking/tapping on the Field Notes button will navigate to the selected station record in the field notes page.

## FIELD NOTES PAGE

Field Notes

Daily Traverses

2023-05-11

2023-05-05 1

Observation Themes

Station 2

23DLK0004  
aerial observation

23DLK0005

3

Earth Material

23DLK0004A  
carbonate  
hydrothermal

23DLK0004B  
websterite  
metaplutonic

23DLK0004C  
feldspar-quartz porphyry  
hypabyssal

Sample

23DLK0004B01  
hand, oriented  
PT estimate

23DLK0004B02  
chip sample  
geochemistry, stable isotope

23DLK0004B03  
core  
thin section, stained

23DLK0004B04  
multiple pieces, bag

4

5

6

Field Notes

Daily Traverses

2023-05-11

2023-05-05

Observation Themes

Station

23DLK0001  
surficial feature

23DLK0002  
visited outcrop

23DLK0003  
visited outcrop

Earth Material

23DLK0001A  
flint  
sedimentary

23DLK0001B  
troctolite  
metaplutonic

Sample 7

Structure 8

**Daily Traverses** → List of record dates.

1. **Click/tap** on the date to update the content of the observation themes section for that date.

**Observation Themes** → List of records for the selected date. Available record types are Station, Earth Material, Sample, Structure, Fossil, Mineral, Mineralization/Alteration, Paleoflow, Photo and Location.

2. **Theme bar:** Displays the theme name. Clicking/tapping expands the list of records. Shrinking the header list of record can prevent scrolling down the entire list of records. Coloured header means there is at least one record available. A greyed header means no records are available.
3. **Red square:** Indicates a record is missing mandatory fields. Mandatory fields are in bold and are followed by the \* symbol in the edit dialogs.
4. **Plus sign:** Add a record to the selected theme if the icon is coloured. If the icon is grey, no record can be added.
5. **Pencil:** Opens an edit dialog for the selected record.
6. **Trash can:** Deletes the selected record with its related child records.

7. **Greyed out theme:** There is no record available for the selected parent record.
8. **Coloured icons:** The button is active, and a new child record can be added to the parent record.

## THEME DIALOGS

Sample 23DLK0004B05 1

Close

Save

### Description

Type\*

hand, single

Purpose\*

geochemistry, Xtract

geochemistry, assay

geochemistry, Xtract

### Orientation

Format

right-hand rule

Azimuth

135

Dip/Plunge

55

Surface

upper

### General

Notes

1. **Alias ID:** A concatenation of the year, geologist code, station number and, in this case, earth material A and sample number 1.
2. **Mandatory fields:** Bolded and followed by the \* character. A record can be saved even though mandatory fields are not filled. A visual cue (coloured rectangle) will then appear in the field note page to remind you.
3. **List of values:** Available vocabulary for a chosen field. All the drop-down lists can be edited in the picklist editor, available in the Settings page.
4. **Multiple value fields:** Box containing the value(s) selected in the previous step. Each value can be moved up or down the list and deleted by a click/tap on the trash icon.
5. **Close/Exit:** Closes the dialog without any save. Any modifications will be lost.
6. **Save:** Saves changes made in the dialog and close the record.

## FIELD BOOKS PAGE

The screenshot displays the 'Field Books' application interface. At the top, a dark red navigation bar contains a back arrow, the title 'Field Books', and four action buttons: '+ New' (1), '✓ Open' (2), '✎ Edit' (3), and '🗑 Delete' (4). On the left, a dark gray sidebar features icons for a menu, globe, document, download, books, and settings. The main area shows two data entry cards. The left card, 'Station (5)' (5), has a dark red background and contains the text: 'Details', 'Klemp, Dianna L.', 'Backwater Bay', 'bedrock', '2023-05-05', and '23DLK0005'. The right card, 'Station (2)' (6), has a light gray background and contains: 'Details', 'dd, dd d.', 'r', 'surficial', '2023-05-04', and '23DDD0001'. Both cards feature a crossed-hammers icon. The bottom navigation bar includes three icons: a download arrow (7), a circular arrow (8), and an upgrade arrow (9), with labels 'Complete Backup', 'Restore / Add', and 'Upgrade' respectively.



Field Book Information Close Save

10

11

### Description

Work Type\*

Activity\*

Project

Bedrock

Backwater Bay

Rare Earth Initiative

12

---

### Project Leader

First Name

Middle Name

Last Name

Camilla

Gero

---

### Geologist

First Name\*

Middle Name

Last Name\*

Officer Code\*

Dianna

Louise

Klemp

DLK

---

### More

Station Start Number\*

1

Notes

**Field book page header** → Quick tools to interact with field books. A device can manage many field books, enabling multiple users or projects. A field book contains a database, maps and photos taken by the device.

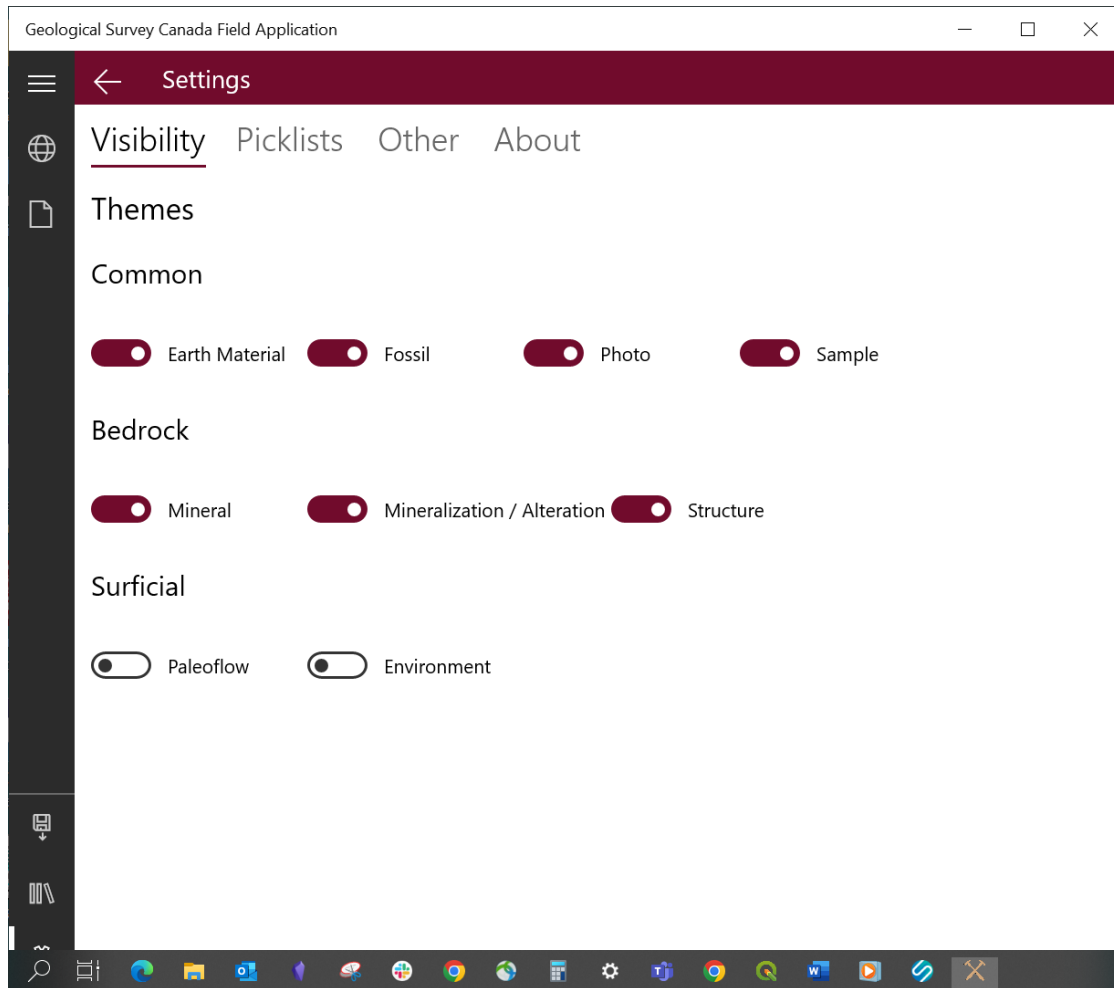
1. **New:** Creates a new field book.
2. **Open:** Opens a selected field book (refer to steps 8 and 9 below).
3. **Edit:** Opens the field book dialog to edit its metadata (i.e., geologist, project name, etc.).
4. **Delete:** Deletes a field book from the device. The GSC Field App will ask if you wish to make a backup of the field book in a backup location before it is deleted. An output zip archive contains database, maps, and photos.
5. **Coloured field book:** The currently active field book into which data are stored.
6. **Greyed out field book:** An inactive field book. Activate it by clicking/tapping on the Open icon (2).
7. **Complete Backup:** Creates a zip archive containing the database, loaded maps and photos related to the active field book. The application asks for location to save the zip file.

8. **Restore / Add:** The application will ask for a zip archive file containing at least a geopackage database and creates a new field book. Can also restore a full backup (refer to previous step 6) with database, maps, and photos.
9. **Upgrade:** Will upgrade the inner database schema of selected field book to latest available one, which is embedded in the application itself.

**Field books dialog** → Tools to interact with map content.

10. **Close/Exit:** Closes the dialog without any save. Any modifications will be lost.
11. **Save:** Save changes made in the dialog and close the record.
12. **Mandatory fields:** Bolded and followed by the \* character. A record can be saved even though mandatory fields are not filled. A visual cue (coloured rectangle) will then appear in the field note page to remind you.







## SETTINGS - VISIBILITY



**Visibility tab** → Settings for visibility with field notes page.

- **Themes:** Set of switches that hides/shows theme bars in the field notes page. The current view is for a bedrock project. By default, if Surficial is selected, bedrock themes are hidden in field notes and surficial themes are visible.

# SETTINGS - PICKLISTS



← Settings

Import Picklists 1

Visibility Picklists Other About

Station

Earth Mat.

Sample

Structure

Fossil

Paleoflow

Mineral

Min / Alt

Photo

Environ.

Station Theme

Close

Save

8

9

Select picklist

Observation Type

2

---

Add / Modify Term

aerial observation

→

Terms

aerial observation

✓

3

photograph only

✗

4

5

stratigraphic section

✗

remote ground observation

✓

surficial feature

✓

**visited outcrop**

✓

waypoint

✓

Reverse selection

6

Set as default

7

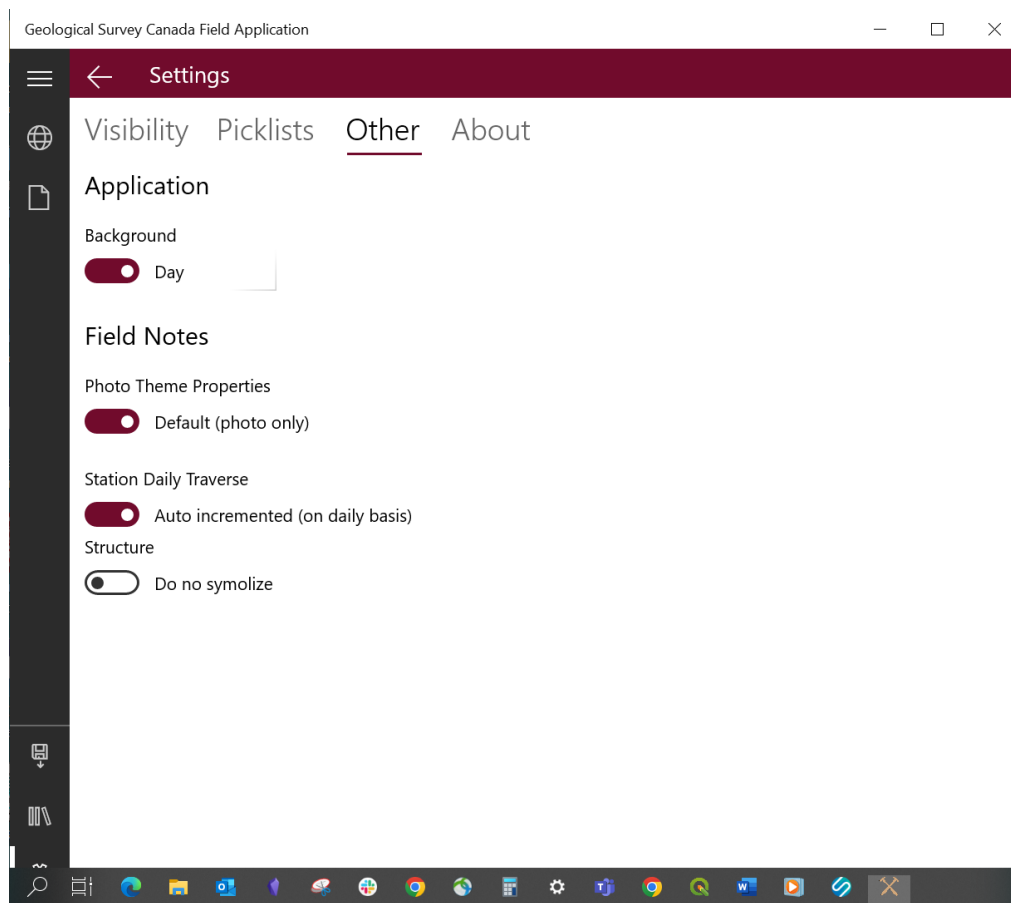
Default Visible ✓ Hidden ✗

**Picklists** → Allows the user to customize the picklists. Click/tap on a theme to open the picklist editor dialog box.

1. **Load picklist:** Load a picklist that comes from an external database (a geopackage .gpkg). This is a convenient tool to deploy the same picklists in all devices of the same project.
2. **Picklist editor:** Enables editing of picklists from a selected theme of records (stations, earth material, etc.)
3. **Select picklist:** Drop-down menu of available picklists for the selected theme.
4. **Green checkmark:** Indicates values set as visible. A click/tap will set it to hidden and show a red x.
5. **Red X:** Indicates values set as hidden. A click/tap will set it to visible and show a green checkmark.
6. **Reordering:** Select and drag a value up or down the list to set the order of appearance in the picklist.

7. **Reverse selection:** Reverse visibility/hidden properties of selected values. Hidden values become visible and visible values become hidden.
8. **Set as default:** Set the default value of the field associated with the selected picklist. This is a convenient tool to speed up data entry when a specific value is selected in most of the cases.
9. **Close/Exit:** Close the dialog without any save. Any modifications will be lost.
10. **Save:** Save changes and close the record.

## SETTINGS - OTHER



**Other** → Selection of options for application configuration.

**Application background:** Day versus night colors. Day option displays white background with black foreground text. Night displays dark grey to black background with white text foreground. Use night mode on the device while in bright sunshine. Use the day mode in low light situations.

**Field notes photo theme properties:** Transforms the photo dialog into a “document” theme allowing more fields and options. Allows other documents to be associated with a photo theme record such as PDF files, XRF records, etc.

**Station Daily Traverse:** Option to automatically increment traverse numbering daily.

**Structure:** If turned on, this toggle will show a bedrock structural symbol on the map page, surrounding its related station. Click on the symbol to see more information, like dip and azimuth values.