Hiking with OSM

How to use and contribute to hiking data with OpentStreetMap

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PLAN

1 Intro

2 Use OSM

3 Contribute to OSM

1 Intro

Node networks

In Isère the routes are described according a Node Network (Réseau de Carrefours en français), it is not the case everywhere.

Pré Boiteux
alt. 1640 m.
Cabane de Bachasson 1,0 km 0h20
Col de Porte 2,8 km 1h15
0h20 1,0 km Habert de Chamechaude
1h55 4,4 km Le Sappey Eglise
Belvédère Roche rousse 0,5 km 0h15
Prudence : Falaises abruptes
9

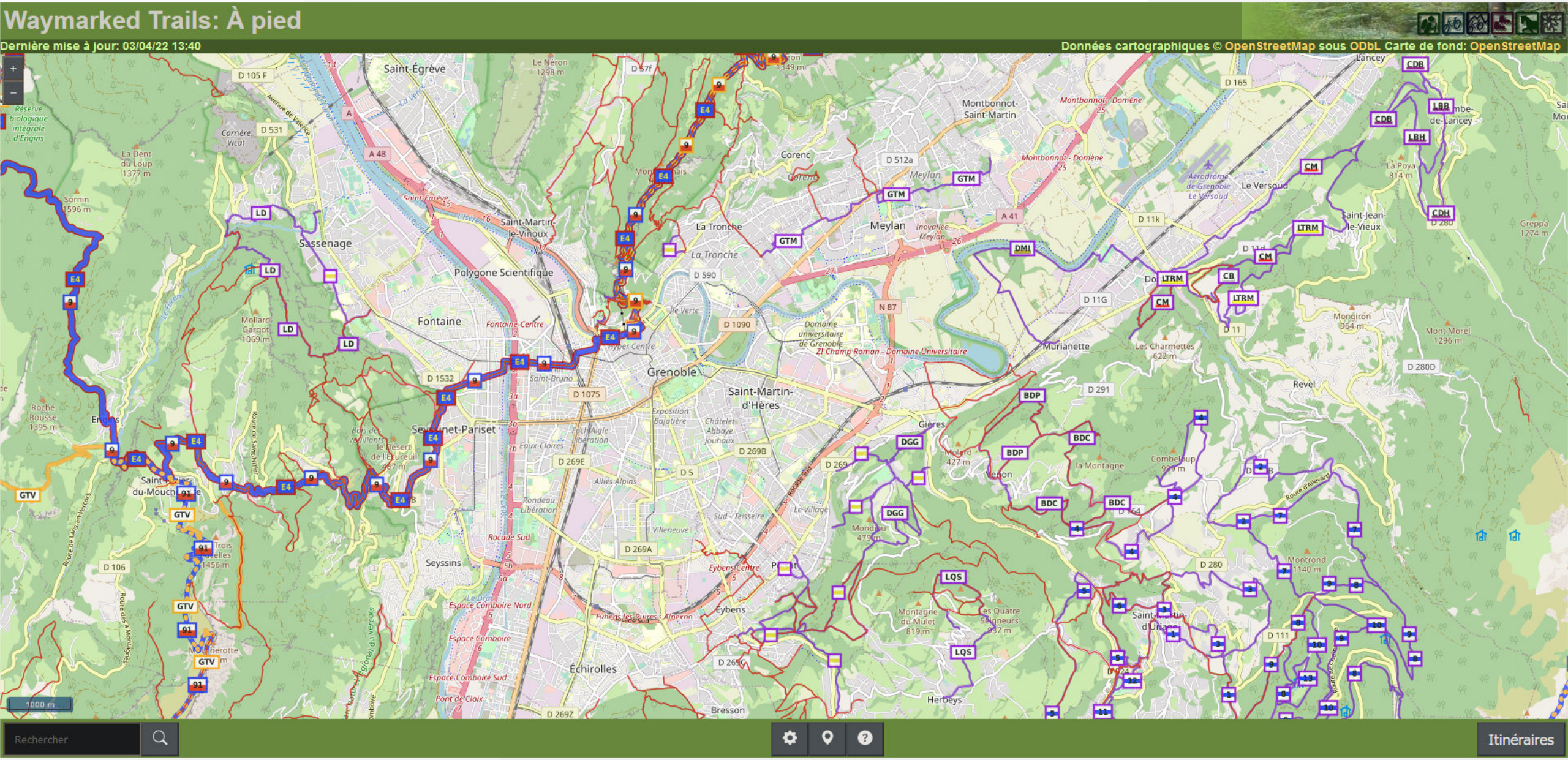
Haute Jarrie
alt. 384 m
← 7.06 km TAVERNOLLES
← 4.06 km ECHIROLLES VILLAGE
← 2.96 km CLOS JOUVIN
VIZILLE 6.11 km →
MONTCHABOUD 6.01 km →
BASSE JARRIE 5.64 km →
CLOS JOUVIN 5.33 km →
Le Mollard 0.50 km →
← 2.42 km BRESSON
← 0.23 km Le Plâtre
Château de Bon Repos 0.95 km →
← 0.70 km Etang de Haute Jarrie

L'Escandille
Alt. 1090 m
Gève
1h 25 4.2 km
Les Olivets
5 mn 0.4 km
Autrans
40 mn 2.1 km →
Les Eperouses
15 mn 1 km →
Balisage des itinéraires de randonnées suivre

2 Use OSM

💻 WaymarkedTrails - global view

WaymarkedTrails displays the data for some thems like hikings.


Waymarked Trails: À pied
Dernière mise à jour: 03/04/22 13:40
Données cartographiques © OpenStreetMap sous ODbL Carte de fond: OpenStreetMap
Grenoble
Saint-Martin-d'Hères
Fontaine
Sassenage
Échirolles
Meylan
Seyssinet-Pariset
Seyssins
Eybens
Gières
Murianette
Le Versoud
Saint-Égrève
Rechercher
Itinéraires
1000 m

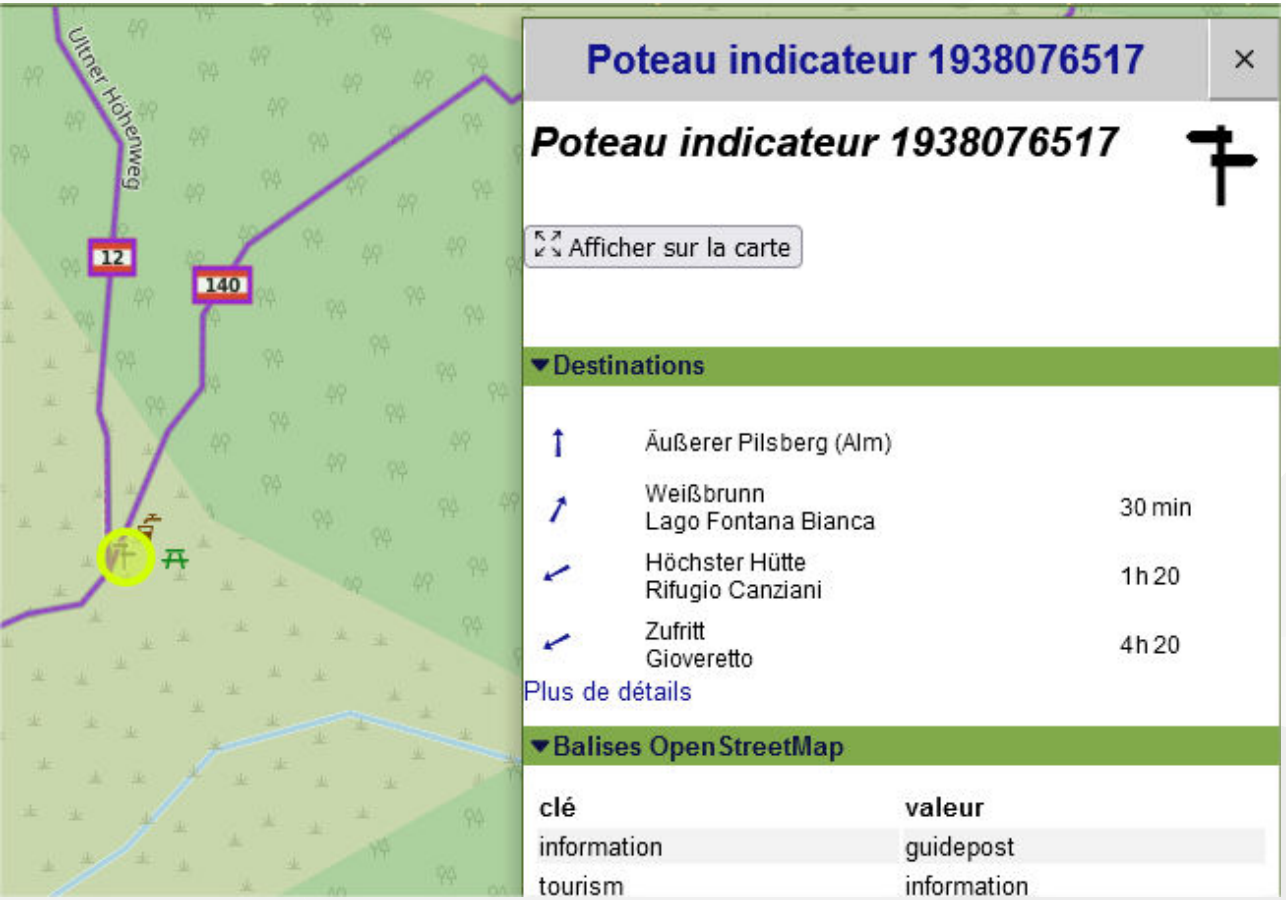
💻 WaymarkedTrails - hiking legend

The hikings routes are rendered according their types

- Red : Node networks
- Purple : Itinerary
- Blue bold : European route
- Red bold : Other major route (Ex: Saint-Jacques de Compostelle routes)
- Orange bold : Round Trip (EX: Grand Tour du Vercors)

💻 WaymarkedTrails - data

We can click on a route to inspect the OSM object.



Poteau indicateur 1938076517

Poteau indicateur 1938076517

Afficher sur la carte

Destinations

↑	Äußerer Pilsberg (Alm)	
↗	Weißbrunn Lago Fontana Bianca	30 min
↙	Höchster Hütte Rifugio Canziani	1 h 20
↙	Zufritt Gioveretto	4 h 20

Plus de détails

Balises OpenStreetMap

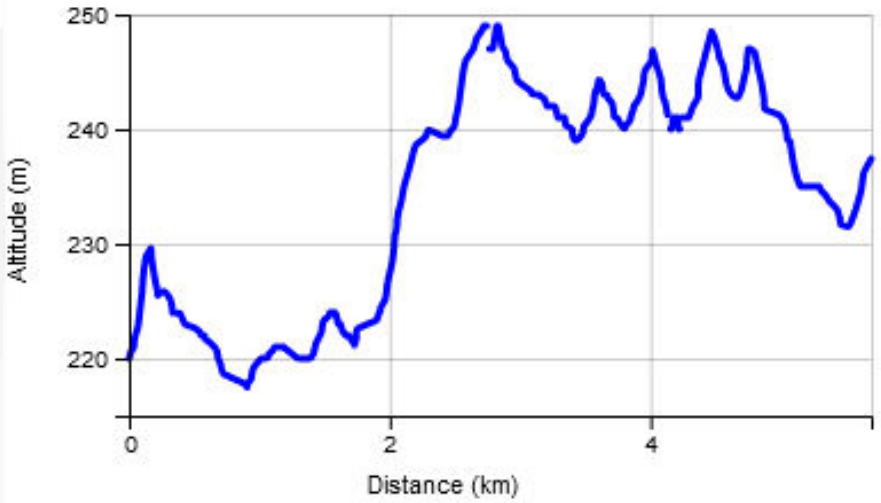
clé	valeur
information	guidepost
tourism	information

Relation 8220056

Grande Traverse de Meylan GTM

Longueur cartographiée: 5.6 km
Opérateur: Ville de Meylan

Profil d'altitude



Dénivelé total: ↗ 20m ↘ 0m

Balises OpenStreetMap

clé	valeur
name	Grande Traverse de Meylan
network	lwn
operator	Ville de Meylan
route	hiking
type	route

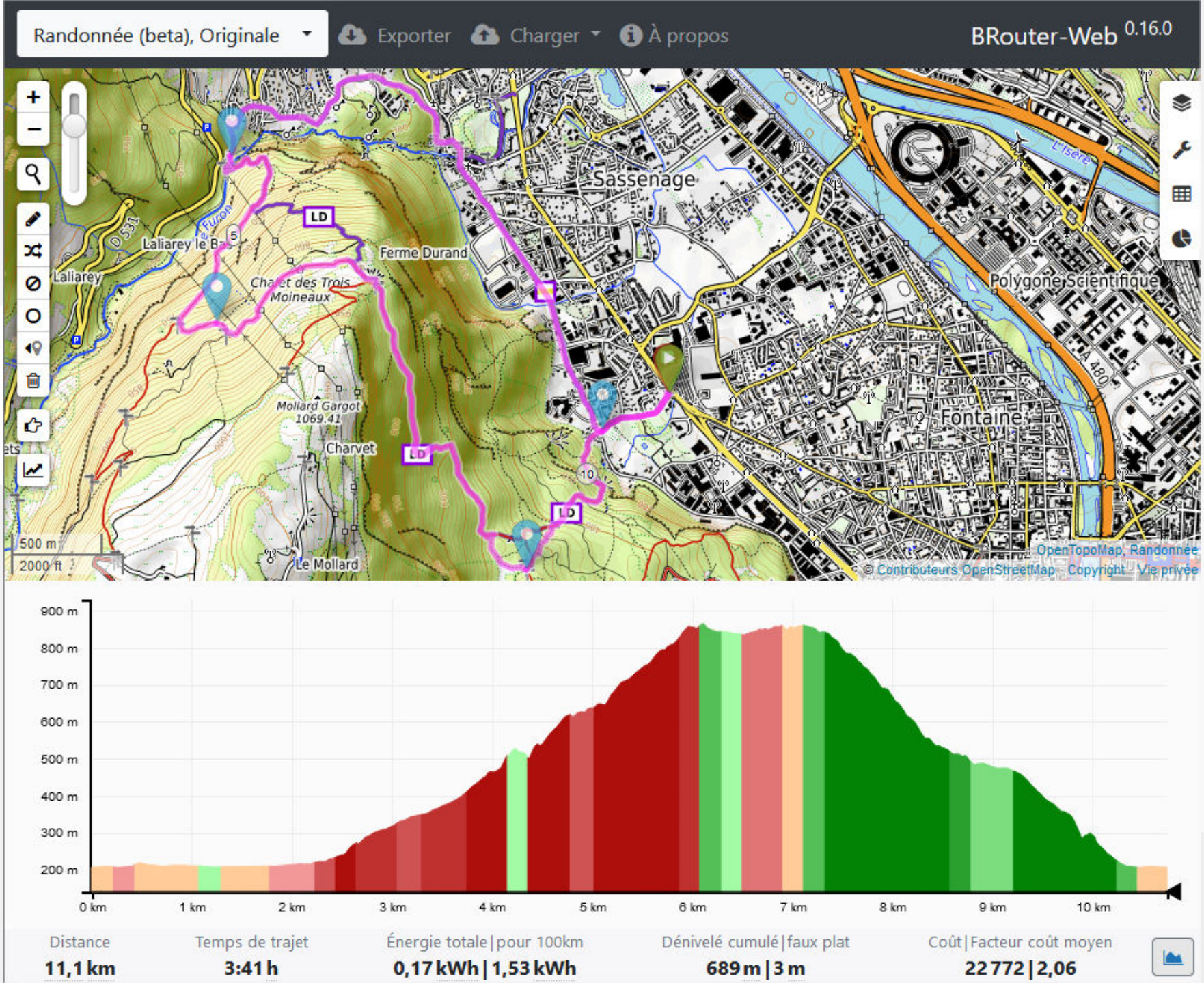
💻 Brouter

Brouter allow to plan trip for several mean of transport.

It has a hinking beta mode and uses the WaymarkedTrails layer among others.

⚠️ Computation are done on all the paths, not only the hiking paths.

We can export the GPX track.


Randonnée (beta), Originale
Exporter
Charger
À propos
BRouter-Web 0.16.0
Sassenage
Laliarey le B.
Laliarey
Ferme Durand
Chalet des Trois Moineaux
Mollard Gargot 1069.41
Charvet
Le Mollard
Polygone Scientifique
Fontaine
LD
500 m
2000 ft
OpenTopoMap, Randonnée
© Contributeurs OpenStreetMap · Copyright · Vie privée
900 m
800 m
700 m
600 m
500 m
400 m
300 m
200 m
0 km
1 km
2 km
3 km
4 km
5 km
6 km
7 km
8 km
9 km
10 km
Distance
11,1 km
Temps de trajet
3:41 h
Énergie totale | pour 100km
0,17 kWh | 1,53 kWh
Dénivelé cumulé | faux plat
689 m | 3 m
Coût | Facteur coût moyen
22 772 | 2,06

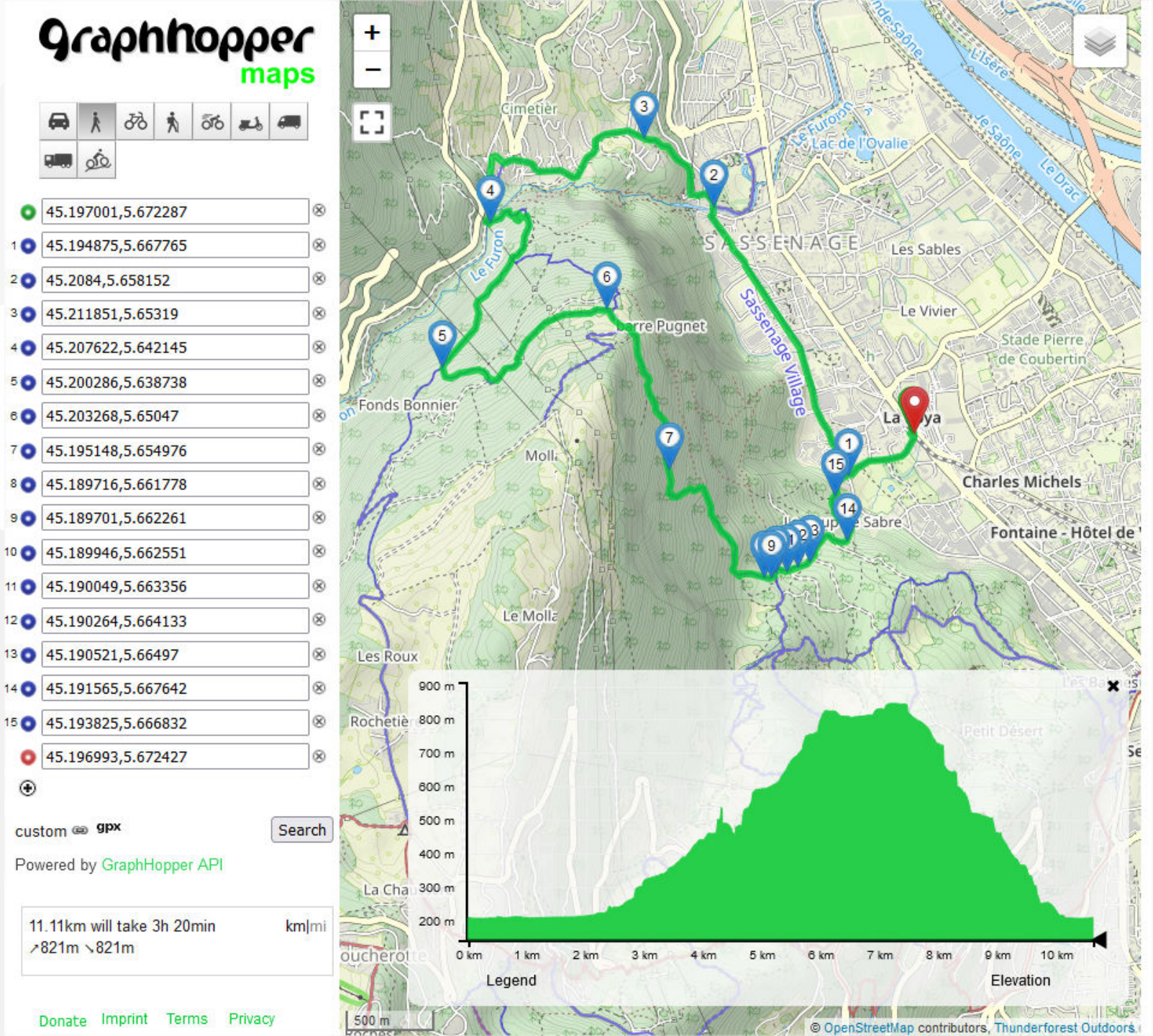
💻 GraphHopper

GraphHopper allow to plan trip for several mean of transport.

It doesn't use WaymarkedTrails layer but Thunderforest Outdoors where we see the hiking routes.

⚠️ Computation are done on all the paths, not only the hiking paths.

We can export the GPX track.


Graphhopper
maps
45.197001,5.672287
1 45.194875,5.667765
2 45.2084,5.658152
3 45.211851,5.65319
4 45.207622,5.642145
5 45.200286,5.638738
6 45.203268,5.65047
7 45.195148,5.654976
8 45.189716,5.661778
9 45.189701,5.662261
10 45.189946,5.662551
11 45.190049,5.663356
12 45.190264,5.664133
13 45.190521,5.66497
14 45.191565,5.667642
15 45.193825,5.666832
45.196993,5.672427
custom gpx
Search
Powered by GraphHopper API
11.11km will take 3h 20min
↗821m ↘821m
km|mi
Donate Imprint Terms Privacy
Cimetière
Le Furon
Lac de l'Ovalie
SASSENAGE
Les Sables
Le Vivier
Stade Pierre de Coubertin
Sassenage Village
Fonds Bonnier
Charles Michels
Fontaine - Hôtel de
Le Molla
Les Roux
Rochetière
La Cha
Petit Désert
900 m
800 m
700 m
600 m
500 m
400 m
300 m
200 m
0 km 1 km 2 km 3 km 4 km 5 km 6 km 7 km 8 km 9 km 10 km
Legend
Elevation
500 m
© OpenStreetMap contributors, Thunderforest Outdoors

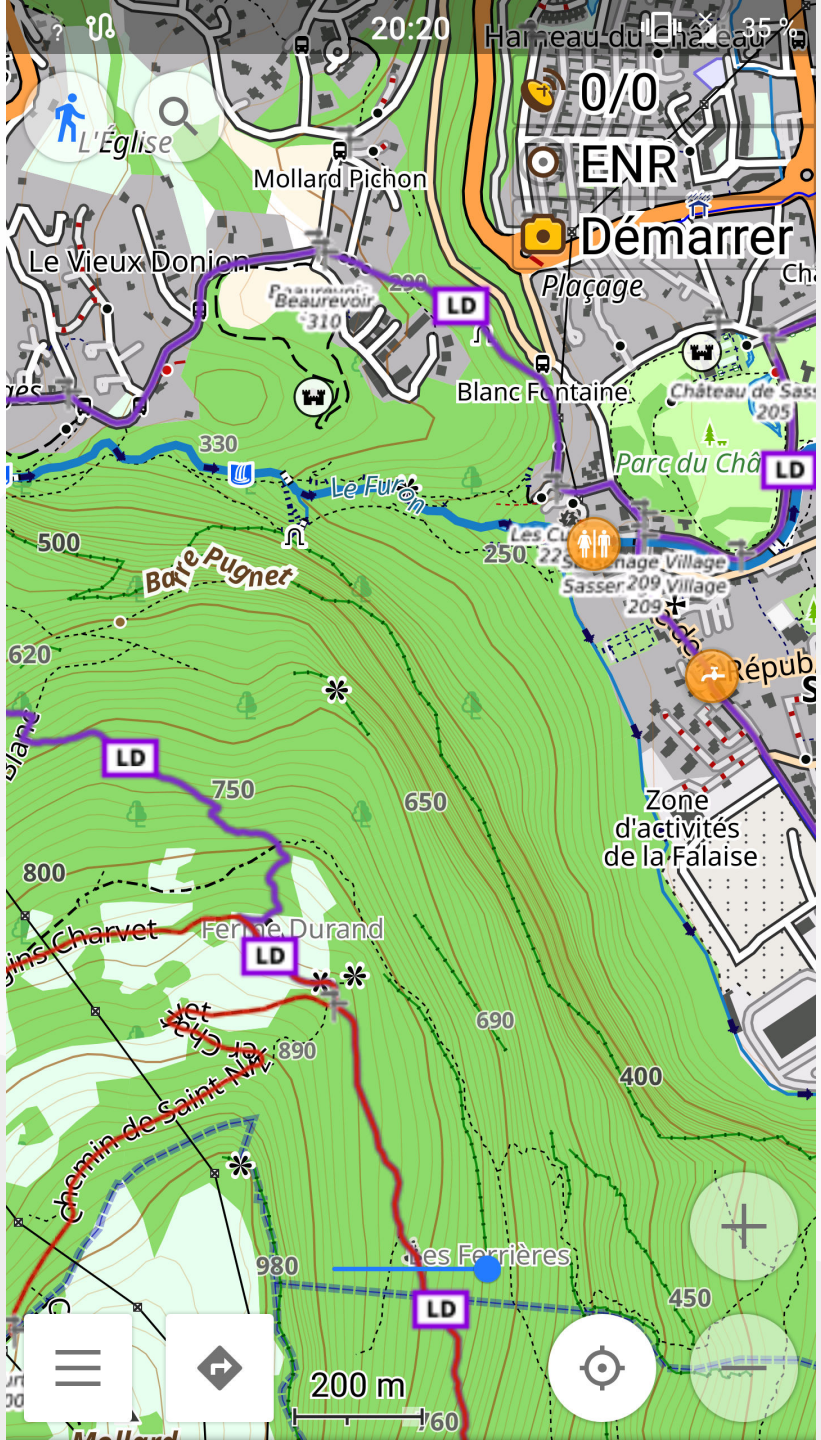
OsmAnd

Download map to see them offline
(with no download limit with OpenSource version downlable with FDroid).

You can set several profile, and so dedicate one for hiking.

OsmAnd - WaymarkedTrails

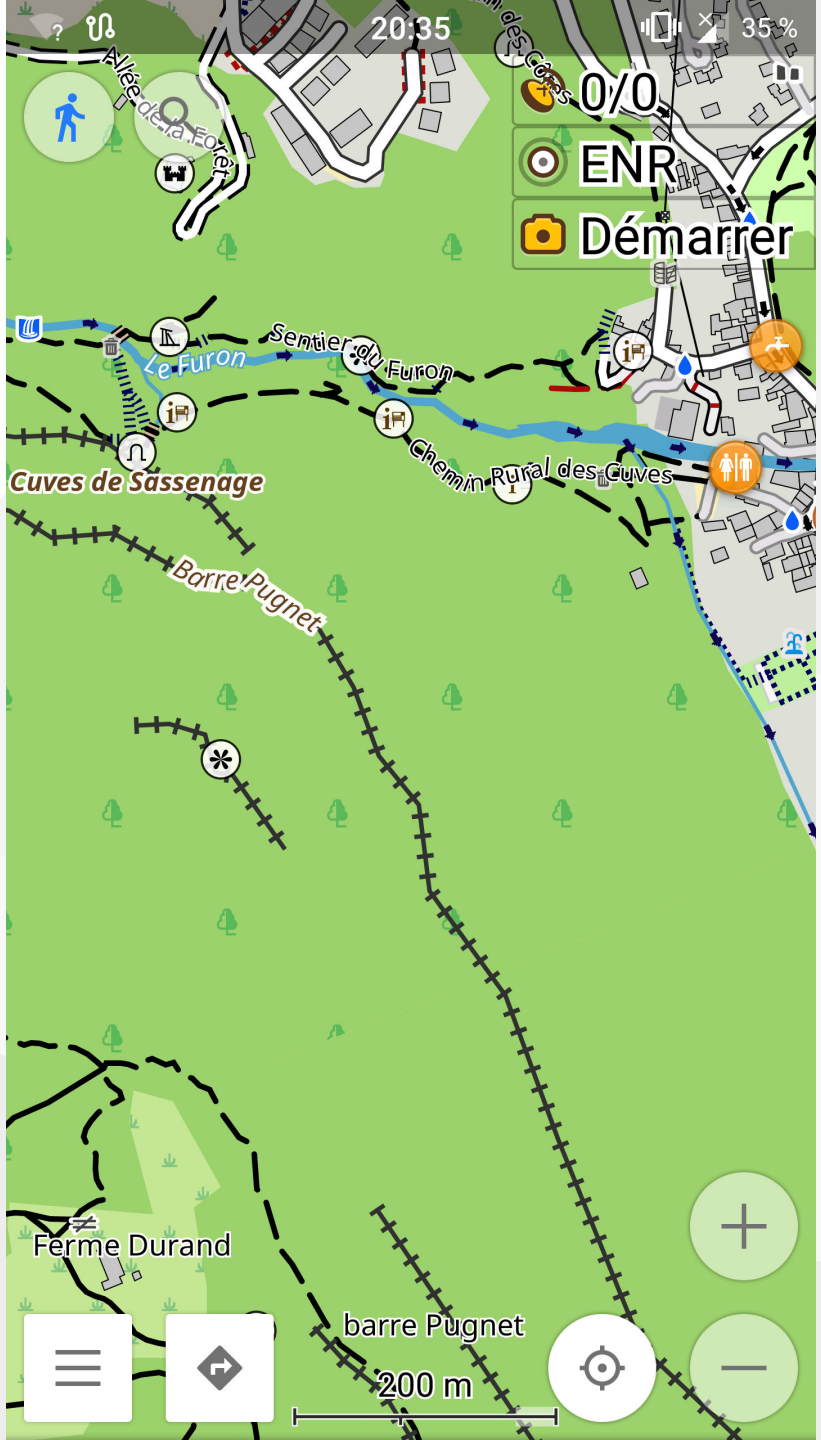
We can add WaymarkedTrails in the overlayer of a map with the Topo style.



OsmAnd - Hinking Style

A contributor on the OSM Plein Air Telegram shared a hike style.

It uses the tags *trail_visibility* and *sac_scale*.



📱 OsmAnd - Load GPX track

We can load the GPX track we have generated with Brouter, GraphHopper, ...
or found on the internet.

Simply put the file on your smartphone and open it with OsmAnd.

You can change the track color in the map settings.

3 Contribute to OSM

📷 Photos

You can take geolocalised photos of guideposts and upload them to some websites.

- Wikimedia Commons : a cetegory by department, for example for Isère's guideposts
- Mapillary

💻 JOSM

Noob friendly guide

Several concepts :

- Guidepost
- Node of the network
- Route between nodes
- Network (a Community of Municipalities + an activity = a network)

Work in progress on the way to map and on the mapping completion in France.

💻 OpenData in Isère

- Métropole :
  - Tracks
  - Guideposts
- Department

Appendix

- Groupe Telegram Plein Air
- Tutoriel d'installation d'OSMAnd et de traces GPX
- OsmAnd hike style
- On OSM wiki:
  - Projet Plein Air
  - Réseaux de carrefours
  - Randonnée pédestre
  - OsmAnd

💡 Any question ?

- Feel free to contact us by private message:
  - On OSM:
    - https://www.osm.org/user/NicolasGrosjean
    - https://www.osm.org/user/Binnette
  - On the Wiki:
    - https://wiki.openstreetmap.org/wiki/User:grosjen
    - https://wiki.openstreetmap.org/wiki/User:Binnette