

```

In[*]:= dir = "C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike";
imgs = FileNames["*.jpg", dir]

Out[*]=
{C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_140242.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_140426.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_140633.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_141316.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_141508.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_141743.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_142503.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_142750.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_143517.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_144203.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_144423.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_144831.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_145645.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_145824.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_150532.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_150608.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_150711.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_150757.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_150929.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_151759.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_152532.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_153845.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_154134.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_154824.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_154915 (0) .jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_155040.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_155314.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_155813.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_155904.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_161619.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_161808.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_162144.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_162429.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_162738.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_162804.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_163150.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_163620.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_163635.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_163804.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_163852.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_164108.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_164412.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_164429.jpg,
C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\20260123_165030.jpg,

```

```
C:\drorbn\Album\2026.01.23_Le_Sepey_to_Aigle_Hike\20260123_165111.jpg,
C:\drorbn\Album\2026.01.23_Le_Sepey_to_Aigle_Hike\20260123_165318.jpg,
C:\drorbn\Album\2026.01.23_Le_Sepey_to_Aigle_Hike\20260123_165603.jpg,
C:\drorbn\Album\2026.01.23_Le_Sepey_to_Aigle_Hike\20260123_165938.jpg,
C:\drorbn\Album\2026.01.23_Le_Sepey_to_Aigle_Hike\20260123_170419.jpg,
C:\drorbn\Album\2026.01.23_Le_Sepey_to_Aigle_Hike\20260123_170759.jpg}
```

```
In[ ]:= Import[#, "Exif"] & /@ imgs[1]
Out[ ]:= {
  {
    GPSLatitudeRef → North, GPSLatitude → 46.3568°, GPSLongitudeRef → East,
    GPSLongitude → 7.05298°, GPSAltitudeRef → Above sea level, GPSAltitude → 992 m,
    ImageWidth → 512, ImageLength → 288, Compression → JPEG (old-style), Make → samsung,
    Model → Galaxy S24, Orientation → <|CameraTopOrientation → Top, Mirrored → False|>,
    XResolution → 72, YResolution → 72, ResolutionUnit → Inch, Software → S921WLS4CYL1,
    DateTime → Fri 23 Jan 2026 14:02:42, JPEGInterchangeFormat → 998,
    JPEGInterchangeFormatLength → 45385, YCbCrPositioning → Centered,
    ExposureTime →  $\frac{110091}{250000000}$  s, FNumber → f/1.8, ExifTag → 240,
    ExposureProgram → Program, GPSTag → 746, ISOSpeedRatings → 25, ExifVersion → 2.20,
    DateTimeOriginal → Fri 23 Jan 2026 14:02:42, DateTimeDigitized → Fri 23 Jan 2026 14:02:42,
    ShutterSpeedValue →  $\frac{110091}{250000000}$  exposure values, ApertureValue →  $\frac{169}{100}$  exposure values,
    BrightnessValue →  $\frac{489}{50}$ , ExposureBiasValue → 0 exposure values,
    MaxApertureValue → 1.69 exposure values, MeteringMode → Center-weighted average,
    FlashInfo → <|FlashUsed → False, FlashFiringStatus → No strobe return detection function,
      FlashMode → Missing[Unknown], FlashFunctionPresent → True, RedEyeCorrection → False|>,
    FocalLength → 5.4 mm, SubSecTime → 384, SubSecTimeOriginal → 384,
    SubSecTimeDigitized → 384, FlashpixVersion → 1.00, ColorSpace → Uncalibrated,
    PixelXDimension → 4000, PixelYDimension → 2252, ExposureMode → Automatic,
    WhiteBalance → Automatic, DigitalZoomRatio → 1, FocalLengthIn35mmFilm → 23 mm,
    SceneCaptureType → Standard, ImageUniqueID → F50XLPE00SM|> }
}
```

```
In[ ]:= Import[#, "Exif"] ["GPSLongitude"] & /@ imgs[1]
Out[ ]:= {7.05298°}

In[ ]:= Lookup[Import[#, "Exif"], {"GPSLatitude", "GPSLongitude"}] & /@ imgs[1]
Out[ ]:= {{46.3568°, 7.05298°}}
```

```

In[*]:= GeoPosition[Lookup[Import[#, "Exif"], {"GPSLatitude", "GPSLongitude"}]] & /@ imgs
Out[*]=
{GeoPosition[{46.3568, 7.05298}],
 GeoPosition[{46.3565, 7.05467}], GeoPosition[{46.3552, 7.05527}],
 GeoPosition[{46.3532, 7.05346}], GeoPosition[{46.3524, 7.052}],
 GeoPosition[{46.3515, 7.05081}], GeoPosition[{46.3482, 7.04647}],
 GeoPosition[{46.3466, 7.04624}], GeoPosition[{46.3432, 7.04496}],
 GeoPosition[{46.341, 7.04432}], GeoPosition[{46.3406, 7.04336}],
 GeoPosition[{46.3388, 7.04298}], GeoPosition[{46.3368, 7.03942}],
 GeoPosition[{46.3366, 7.03882}], GeoPosition[{46.3327, 7.03932}],
 GeoPosition[{46.3326, 7.03941}], GeoPosition[{46.3323, 7.0391}],
 GeoPosition[{46.332, 7.03894}], GeoPosition[{46.3325, 7.03796}],
 GeoPosition[{46.3323, 7.03135}], GeoPosition[{46.3285, 7.02515}],
 GeoPosition[{Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}],
 GeoPosition[{Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}],
 GeoPosition[{46.3227, 7.01265}],
 GeoPosition[{46.3222, 7.0126}], GeoPosition[{46.3223, 7.01165}],
 GeoPosition[{46.3213, 7.0099}], GeoPosition[{46.3197, 7.00573}],
 GeoPosition[{46.3196, 7.00538}], GeoPosition[{46.3165, 6.98991}],
 GeoPosition[{46.3162, 6.98892}], GeoPosition[{46.3166, 6.98686}],
 GeoPosition[{46.3161, 6.98588}], GeoPosition[{46.3156, 6.98378}],
 GeoPosition[{46.3157, 6.9837}], GeoPosition[{46.3162, 6.98275}],
 GeoPosition[{46.3168, 6.97956}], GeoPosition[{46.3168, 6.97951}],
 GeoPosition[{46.3171, 6.97906}], GeoPosition[{46.3171, 6.97875}],
 GeoPosition[{46.3169, 6.97737}], GeoPosition[{46.3161, 6.97535}],
 GeoPosition[{46.3162, 6.97526}], GeoPosition[{46.3148, 6.97597}],
 GeoPosition[{46.3147, 6.97638}], GeoPosition[{46.3143, 6.97484}],
 GeoPosition[{46.3159, 6.97354}], GeoPosition[{46.3163, 6.97153}],
 GeoPosition[{46.3183, 6.96908}], GeoPosition[{46.3189, 6.96774}]}

In[*]:= res = 800;
fs = FileNames["*.gpx", dir]
data = DeleteCases[
  Union@Table["Geometry" /. Import[f, "Data"], {f, fs}],
  GeoPosition[_, None]], ∞
];
map0 = GeoGraphics[{Red, data}, GeoScaleBar → "Kilometers", ImageSize → res];
AllTracks = Get["C:\\drorbn\\Album\\Summaries\\AllTracks.m"];
Out[*]=
{C:\\drorbn\\Album\\2026.01.23_Le_Sepey_to_Aigle_Hike\\2026-01-23_2760354320_Le
 Sépey to Aigle Hike.gpx}

» C:\\drorbn\\Album\\Summaries
» C:\\Users\\drorb

```

```

In[ ]:= GeoMarker[
  GeoPosition@Lookup[Import[#, "Exif"], {"GPSLatitude", "GPSLongitude"}]
] & /@ imgs

Out[ ]:=
{GeoMarker[GeoPosition[{46.3568, 7.05298}]], GeoMarker[GeoPosition[{46.3565, 7.05467}]],
GeoMarker[GeoPosition[{46.3552, 7.05527}]], GeoMarker[GeoPosition[{46.3532, 7.05346}]],
GeoMarker[GeoPosition[{46.3524, 7.052}]], GeoMarker[GeoPosition[{46.3515, 7.05081}]],
GeoMarker[GeoPosition[{46.3482, 7.04647}]], GeoMarker[GeoPosition[{46.3466, 7.04624}]],
GeoMarker[GeoPosition[{46.3432, 7.04496}]], GeoMarker[GeoPosition[{46.341, 7.04432}]],
GeoMarker[GeoPosition[{46.3406, 7.04336}]], GeoMarker[GeoPosition[{46.3388, 7.04298}]],
GeoMarker[GeoPosition[{46.3368, 7.03942}]], GeoMarker[GeoPosition[{46.3366, 7.03882}]],
GeoMarker[GeoPosition[{46.3327, 7.03932}]], GeoMarker[GeoPosition[{46.3326, 7.03941}]],
GeoMarker[GeoPosition[{46.3323, 7.0391}]], GeoMarker[GeoPosition[{46.332, 7.03894}]],
GeoMarker[GeoPosition[{46.3325, 7.03796}]], GeoMarker[GeoPosition[{46.3323, 7.03135}]],
GeoMarker[GeoPosition[{46.3285, 7.02515}]], GeoMarker[GeoPosition[
  {Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}]], GeoMarker[
  GeoPosition[{Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}]],
GeoMarker[GeoPosition[{46.3227, 7.01265}]], GeoMarker[GeoPosition[{46.3222, 7.0126}]],
GeoMarker[GeoPosition[{46.3223, 7.01165}]],
GeoMarker[GeoPosition[{46.3213, 7.0099}]], GeoMarker[GeoPosition[{46.3197, 7.00573}]],
GeoMarker[GeoPosition[{46.3196, 7.00538}]], GeoMarker[GeoPosition[{46.3165, 6.98991}]],
GeoMarker[GeoPosition[{46.3162, 6.98892}]], GeoMarker[GeoPosition[{46.3166, 6.98686}]],
GeoMarker[GeoPosition[{46.3161, 6.98588}]], GeoMarker[GeoPosition[{46.3156, 6.98378}]],
GeoMarker[GeoPosition[{46.3157, 6.9837}]], GeoMarker[GeoPosition[{46.3162, 6.98275}]],
GeoMarker[GeoPosition[{46.3168, 6.97956}]], GeoMarker[GeoPosition[{46.3168, 6.97951}]],
GeoMarker[GeoPosition[{46.3171, 6.97906}]], GeoMarker[GeoPosition[{46.3171, 6.97875}]],
GeoMarker[GeoPosition[{46.3169, 6.97737}]], GeoMarker[GeoPosition[{46.3161, 6.97535}]],
GeoMarker[GeoPosition[{46.3162, 6.97526}]], GeoMarker[GeoPosition[{46.3148, 6.97597}]],
GeoMarker[GeoPosition[{46.3147, 6.97638}]], GeoMarker[GeoPosition[{46.3143, 6.97484}]],
GeoMarker[GeoPosition[{46.3159, 6.97354}]], GeoMarker[GeoPosition[{46.3163, 6.97153}]],
GeoMarker[GeoPosition[{46.3183, 6.96908}]], GeoMarker[GeoPosition[{46.3189, 6.96774}]]]

In[ ]:= Rasterize[
  map = GeoGraphics[{
    GeoMarker[
      GeoPosition[{1, 1} * Lookup[Import[#, "Exif"], {"GPSLatitude", "GPSLongitude"}]],
      Graphics@Rasterize[Import[#, RasterSize → res],
        "Scale" → 0.0075
      ] & /@ imgs,
    Thickness[0.0016], Blue, AllTracks, Thickness[0.0024], Red, data
  ]},
  GeoScaleBar → "Kilometers",
  ImageSize → res,
  GeoRange → (GeoRange /. Options[map0])
],
  RasterSize → res
]

```

LatitudeLongitude: GeoPosition[{Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}] is not a valid location specification.

GeoMarker: GeoPosition[{Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}] is not a valid GeoMarker coordinate specification.

LatitudeLongitude: GeoPosition[{Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}] is not a valid location specification.

GeoMarker: GeoPosition[{Missing[KeyAbsent, GPSLatitude], Missing[KeyAbsent, GPSLongitude]}] is not a valid GeoMarker coordinate specification.

Out[]=



In[]:= **Export**["C:\\drorbn\\Album\\Summaries\\PathWithImages.png", map]

Out[]=

C:\\drorbn\\Album\\Summaries\\PathWithImages.png