

## Run

```

In[*]:= $AlbumDirectory = "C:\\drorbn\\Album\\2026.03.08_Bruce_Hike_45-_Bognor_-_North";

In[*]:= res = 800;
fs = FileNames[$AlbumDirectory <> "/*.gpx"];
fs = Complement[fs,
  Union[
    StringReplace[{"@.gpx" -> ".gpx", "@.kml" -> ".kml"}] /@
    Select[fs, StringPart[#, -5] == "@" &]
  ]
];
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"];

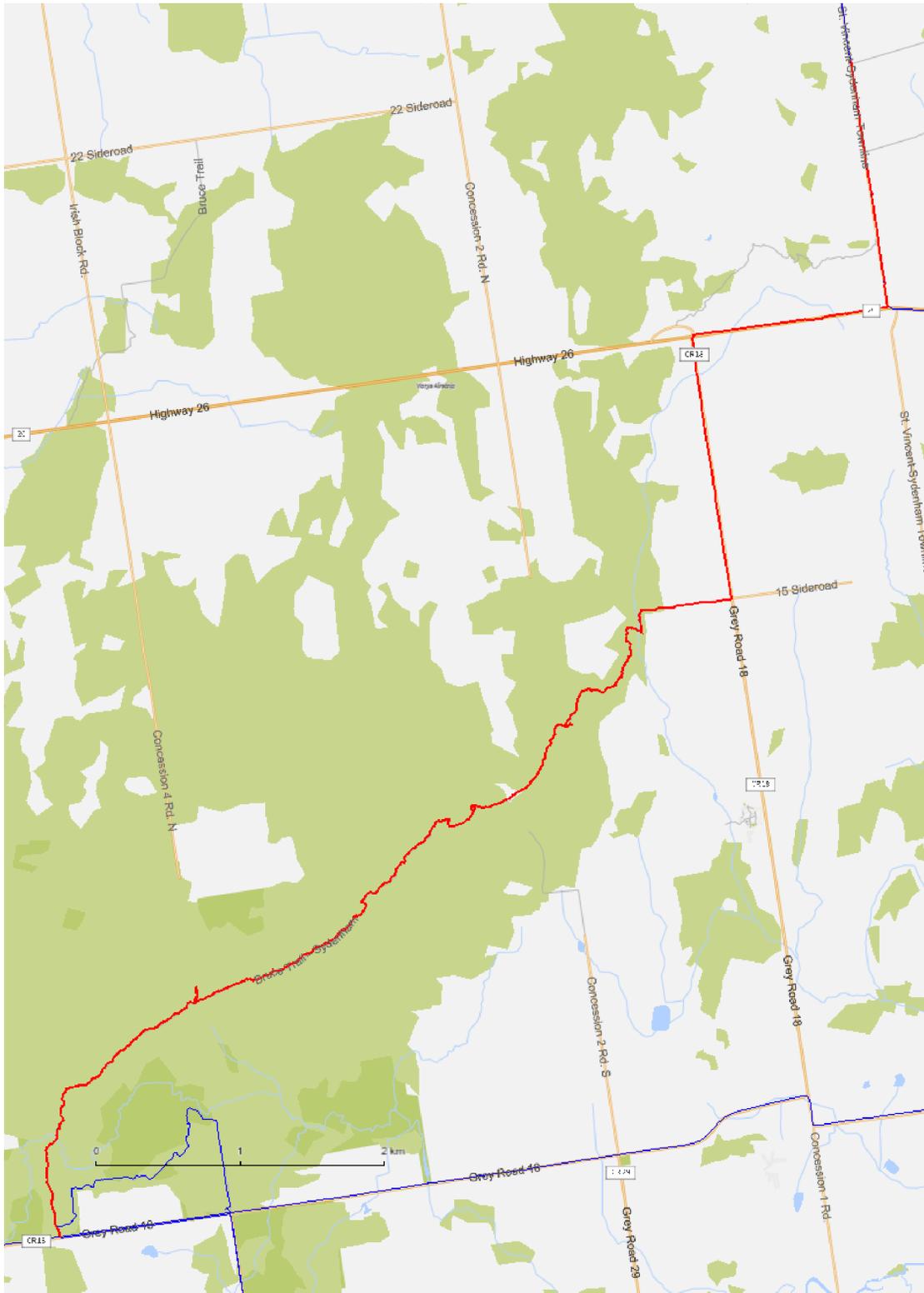
Out[*]:=
{C:\drorbn\Album\2026.03.08_Bruce_Hike_45-_Bognor_-_North\2026-03-08_2818605124_Bruce
  Hike_45_ Bognor - North.gpx}

» C:\drorbn\Album\Summaries
» C:\drorbn\Album\Summaries

In[*]:= Rasterize[
  map = GeoGraphics[{Thickness[0.0016], Blue, AllTracks, Thickness[0.0024], Red, data},
    GeoScaleBar -> "Kilometers",
    ImageSize -> res,
    GeoRange -> (GeoRange /. Options[map0])
  ],
  RasterSize -> res
];
Export[$AlbumDirectory <> "/Path%.png", map];

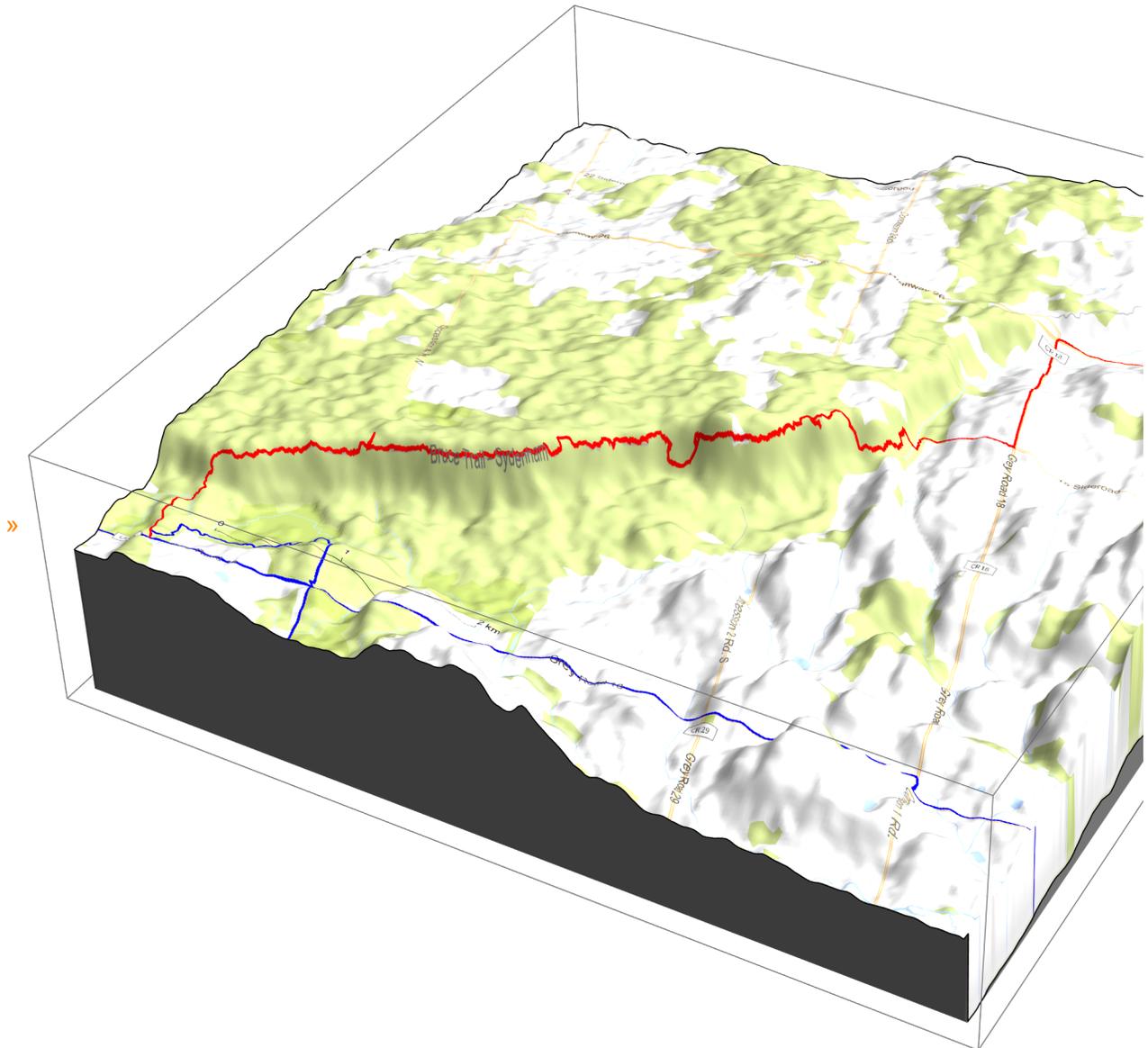
```

Out[ ] =





```
In[*]:= map3D = Echo@ResourceFunction["GeoElevationGraphics3D"] [  
  {Thick, Blue, AllTracks, Red, data},  
  GeoGridRangePadding → 0,  
  GeoScaleBar → "Kilometers",  
  ImageSize → res,  
  GeoRange → (GeoRange /. Options[map0])  
];  
Export[$AlbumDirectory <> "/Path3D.png", map3D]
```



Out[\*]=

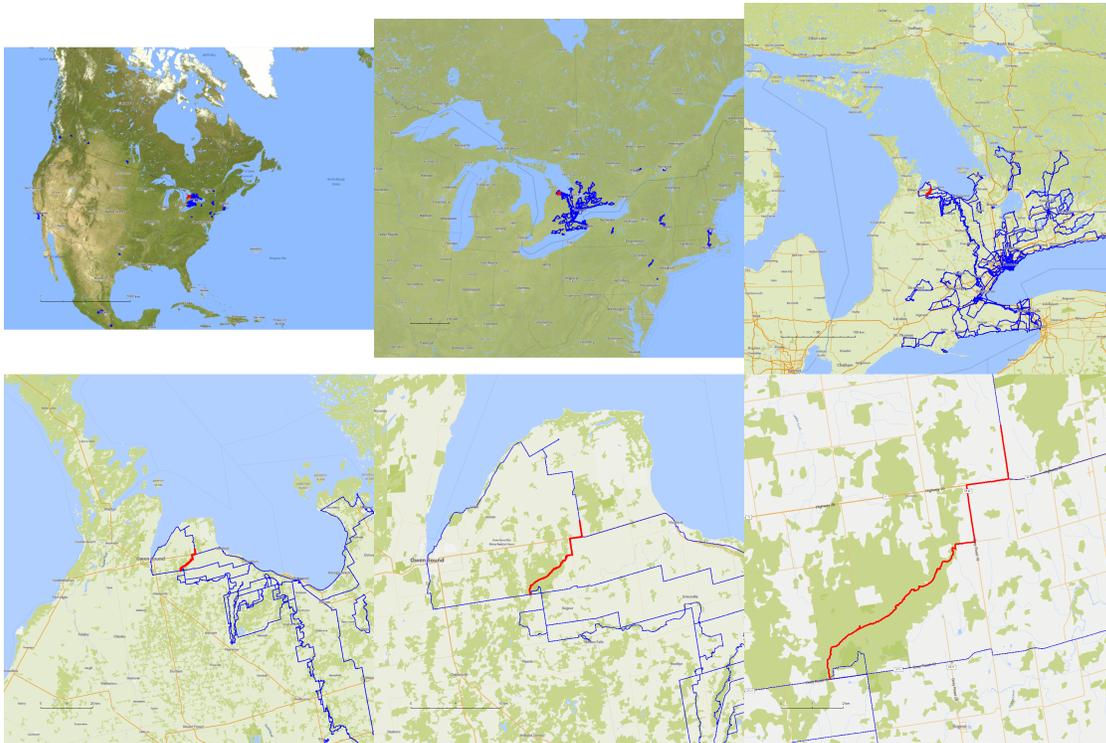
C:\drorbn\Album\2026.03.08\_Bruce\_Hike\_45-\_Bognor\_-\_North/Path3D.png

```

In[*]:= PathsLocation = Module[{R = 3000, r = 6, n = 6, res = 1000},
  ImageAssemble[
    Partition[#, 3] &@Table[
      Rasterize[
        GeoGraphics[
          {Blue, Thickness[(2 n - k) / 4000], AllTracks, Red, Thickness[(2 n - k) / 1500], data},
          GeoCenter → Mean@Cases[data, GeoPosition[L_List] ⇒ Mean[L], ∞],
          GeoRange → Quantity[R (r / R)(k-1) / (n-1), "Kilometers"],
          GeoScaleBar → "Kilometers",
          ImageSize → res
        ],
        RasterSize → res
      ],
      {k, n}],
    "Fit", Background → White]
  ]
Export[$AlbumDirectory <> "/PathLocation.png", PathsLocation]

```

Out[\*]=



Out[\*]=

C:\drorbn\Album\2026.03.08\_Bruce\_Hike\_45-\_Bognor\_-\_North/PathLocation.png

```

In[*]:= imgs = FileNames["*.jpg", $AlbumDirectory];
map = GeoGraphics[{
  GeoMarker[
    GeoPosition[{1, -1} * Lookup[Import[#, "Exif"], {"GPSLatitude", "GPSLongitude"}]],
    Graphics@Rasterize[Import[#, RasterSize -> res],
      "Scale" -> 0.0075
    ] & /@ imgs,
  Thickness[0.0016], Blue, AllTracks, Thickness[0.0024], Red, data
}],
GeoScaleBar -> "Kilometers",
ImageSize -> res,
GeoRange -> (GeoRange /. Options[map])
]
Export[$AlbumDirectory <> "/PathWithImages.png", map]

```

**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.

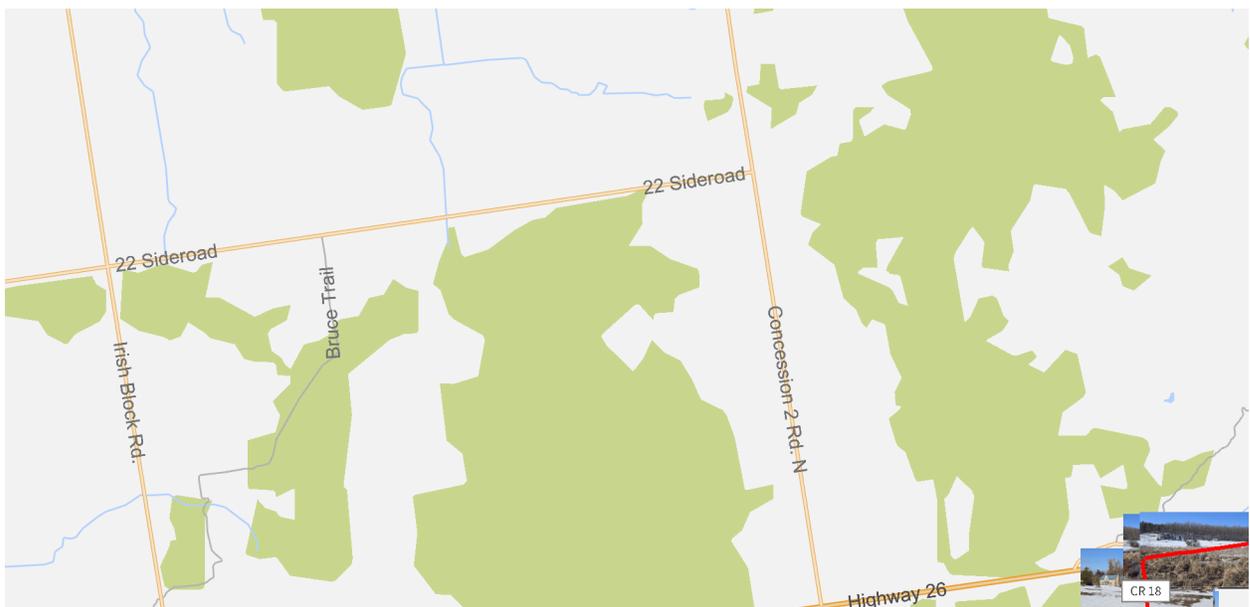
**LatitudeLongitude:** GeoPosition[{Missing[KeyAbsent, GPSLatitude], -Missing[KeyAbsent, GPSLongitude]}] is not a valid location specification.

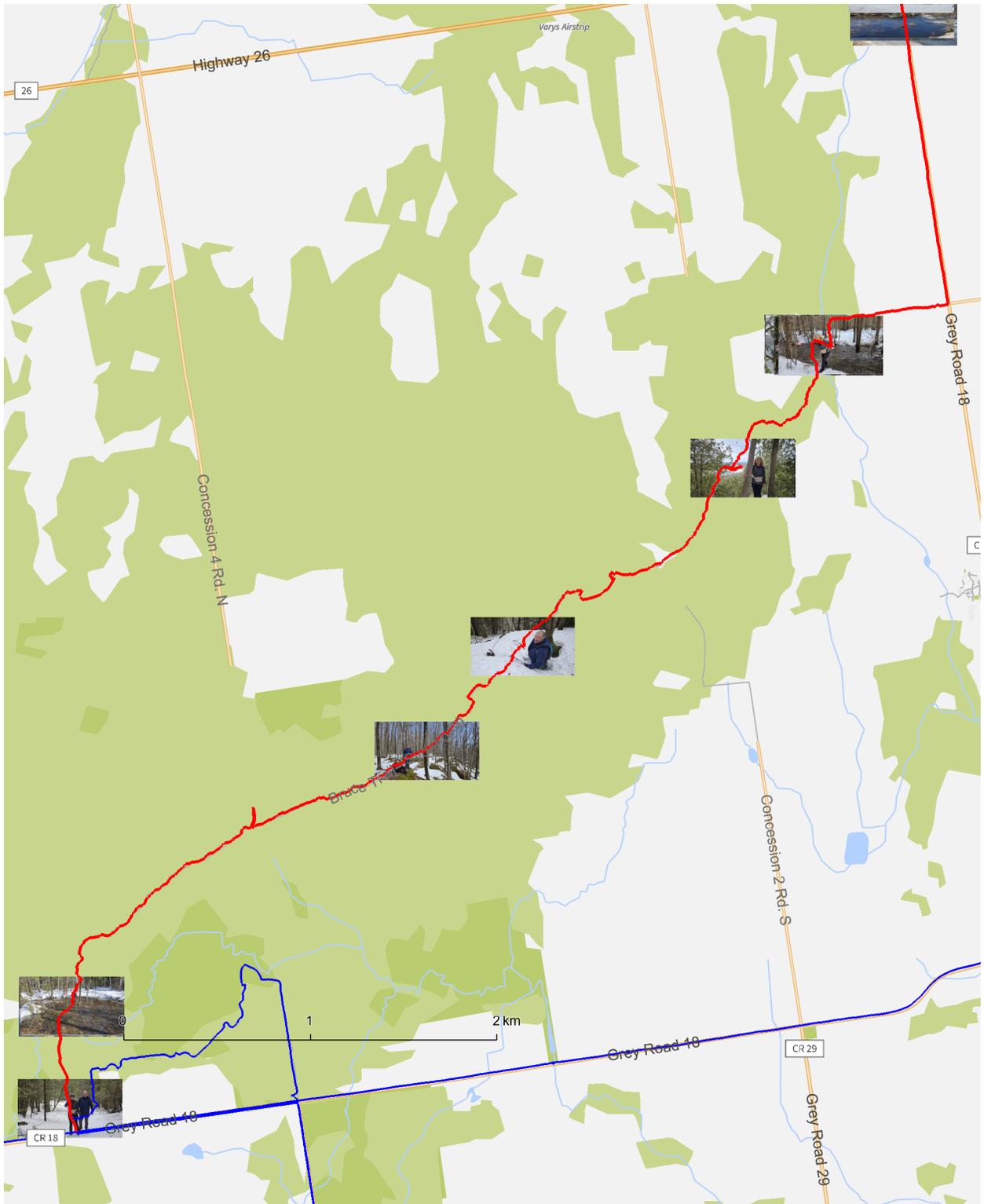
**General:** Further output of LatitudeLongitude::invloc will be suppressed during this calculation.

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

**General:** Further output of GeoMarker::invpts will be suppressed during this calculation.

Out[\*]=





Out[\*]=

C:\drorbn\Album\2026.03.08\_Bruce\_Hike\_45-\_Bognor\_-\_North/PathWithImages.png

## Image Directory

```
If[Head[PensieveDirectives] === List,
  ImageComments = "ImageComments" /. PensieveDirectives, ImageComments = {}];
(Interpretation[ImageResize[Import@#, 400], #] → (# /. ImageComments /. (# → ""))) & /@
FileNames["*.jpg" | "*.jpeg" | "*.png" | "*.mp4", $AlbumDirectory]
```

## Export

13.6km with Olga and Lev . The first 8.6km in about 50cm of virgin snow (not previously walked on by others) where every step was a struggle; also including a few overflowing streams (yesterday's temps were above 10C!) where we had to wade through icy water . Then the last 5km were a roadside walk, yet with great views . A tough but lovely day!

```
PensieveDirectives = {
  "TitleNotes" →
  "13.6km with Olga and Lev. The first 8.6km in about 50cm of virgin snow (not
  previously walked on by others) where every step was a struggle; also
  including a few overflowing streams (yesterday's temps were above
  10C!) where we had to wade through icy water. Then the last 5km were
  a roadside walk, yet with great views. A tough but lovely day!",
  "ImageComments" → {}
}
```