

Google Earth

Eine kurze Übersicht

Hardo Müller

Snowflake Software



Google Earth Home

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Google Earth – Explore, Search and Discover

New - [The Illuminated Continent](#): African imagery and articles from National Geographic featured in Google Earth.

Want to know more about a specific location? Dive right in -- Google Earth combines satellite imagery, maps and the power of Google Search to put the world's geographic information at your fingertips.



- Fly from space to your neighborhood. Type in an address and zoom right in.
- Search for schools, parks, restaurants, and hotels. Get driving directions.
- Tilt and rotate the view to see 3D terrain and buildings.
- Save and share your searches and favorites. Even add your own annotations.

Google Earth

Free

Google Earth puts a planet's worth of imagery and other geographic information right on your desktop. View exotic locales like Maui and Paris as well as points of interest such as local restaurants, hospitals, schools, and more.

- [Get Google Earth](#) (Free Version)
- [Learn more](#)



Google Earth Plus

\$20*

Google Earth Plus is an optional upgrade adding GPS device support, the ability to import spreadsheets, drawing tools and better printing.

Google Earth Pro

\$400*

For professional and commercial uses, Google Earth Pro is the ultimate research, presentation and collaboration tool for location information.

[Get Google Earth](#)

Free Version



Click image to enlarge preview.

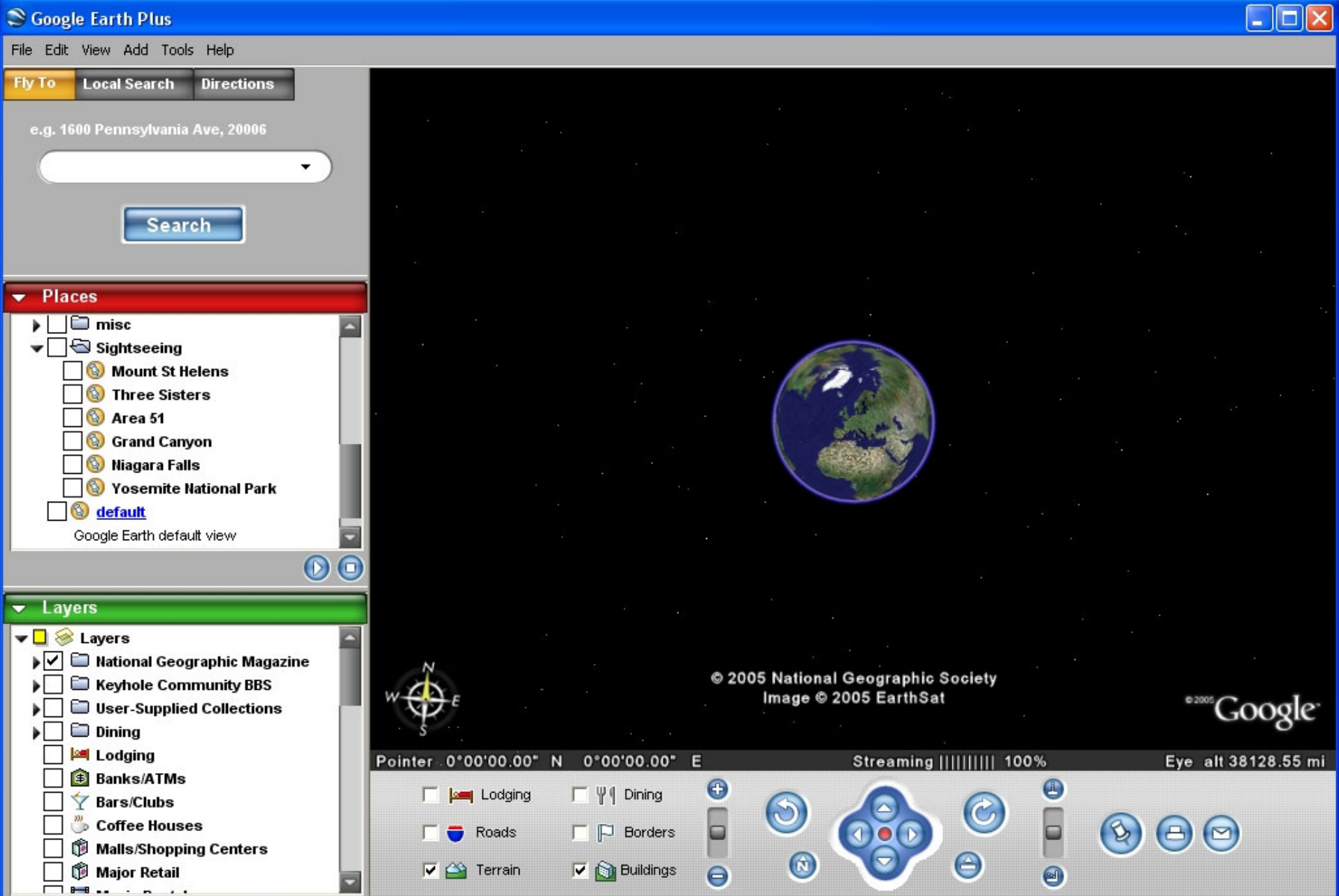
- [Hurricane Katrina Imagery](#)

But wait...there's more

- [Product tour](#)
- [Sightseeing - top spots](#)
- [Product comparison chart](#)
- [Google Earth Community](#)

Was ist Google Earth?

- 3D Viewer
 - Zentrale Datenbank
 - DGM
 - Textur (Luft-/Satellitenbilder auf DGM)
 - Gebäude (Zur Zeit einzelne US-Städte)
 - Diverse Vektordaten
 - Straßen, Grenzen, Markante Punkte, etc.



e.g. 1600 Pennsylvania Ave, 20006

Search

Places

- ☐ misc
- ☒ Sightseeing
 - ☐ Mount St Helens
 - ☐ Three Sisters
 - ☐ Area 51
 - ☐ Grand Canyon
 - ☐ Niagara Falls
 - ☐ Yosemite National Park
- ☐ default

Google Earth default view

Layers

- ☒ Layers
- ☒ National Geographic Magazine
- ☐ Keyhole Community BBS
- ☐ User-Supplied Collections
- ☐ Dining
- ☐ Lodging
- ☐ Banks/ATMs
- ☐ Bars/Clubs
- ☐ Coffee Houses
- ☐ Malls/Shopping Centers
- ☐ Major Retail



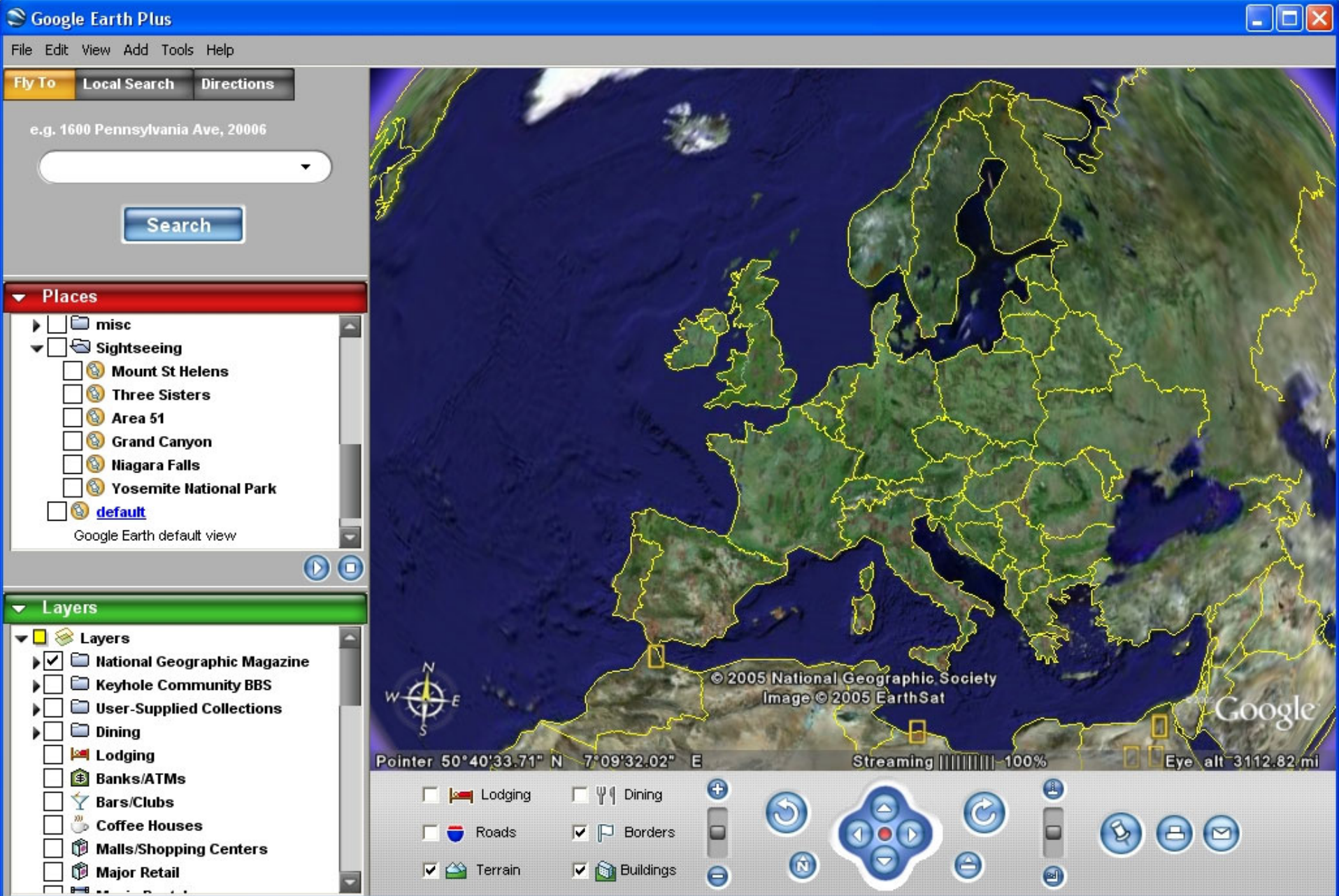
Pointer 34°09'38.93" N 54°03'32.96" E

Streaming ||||| 100%

Eye alt 7242.91 mi

- | | |
|---|---|
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| <input type="checkbox"/> Roads | <input checked="" type="checkbox"/> Borders |
| <input checked="" type="checkbox"/> Terrain | <input checked="" type="checkbox"/> Buildings |





Fly To Local Search Directions

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Google Earth default view

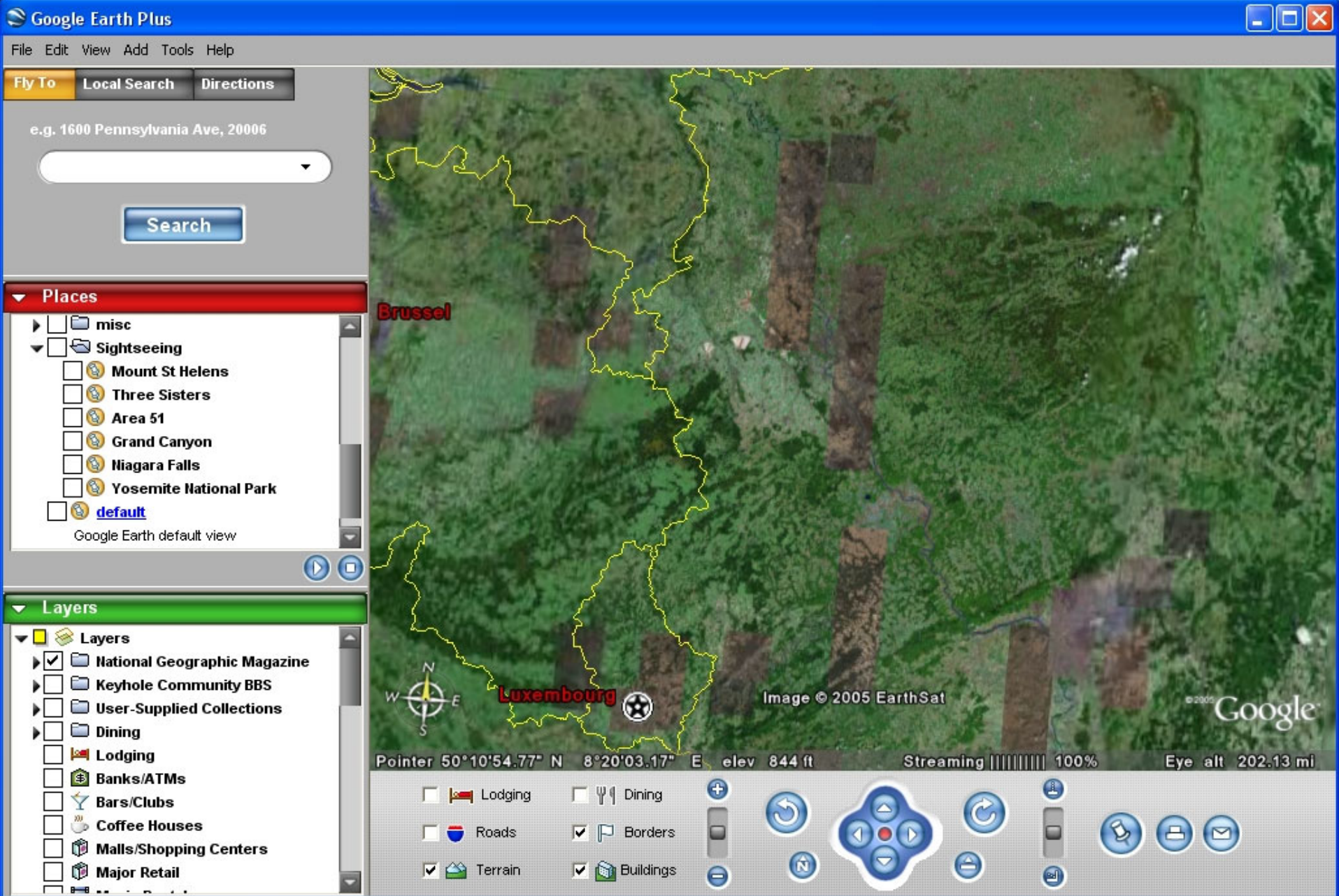
Layers

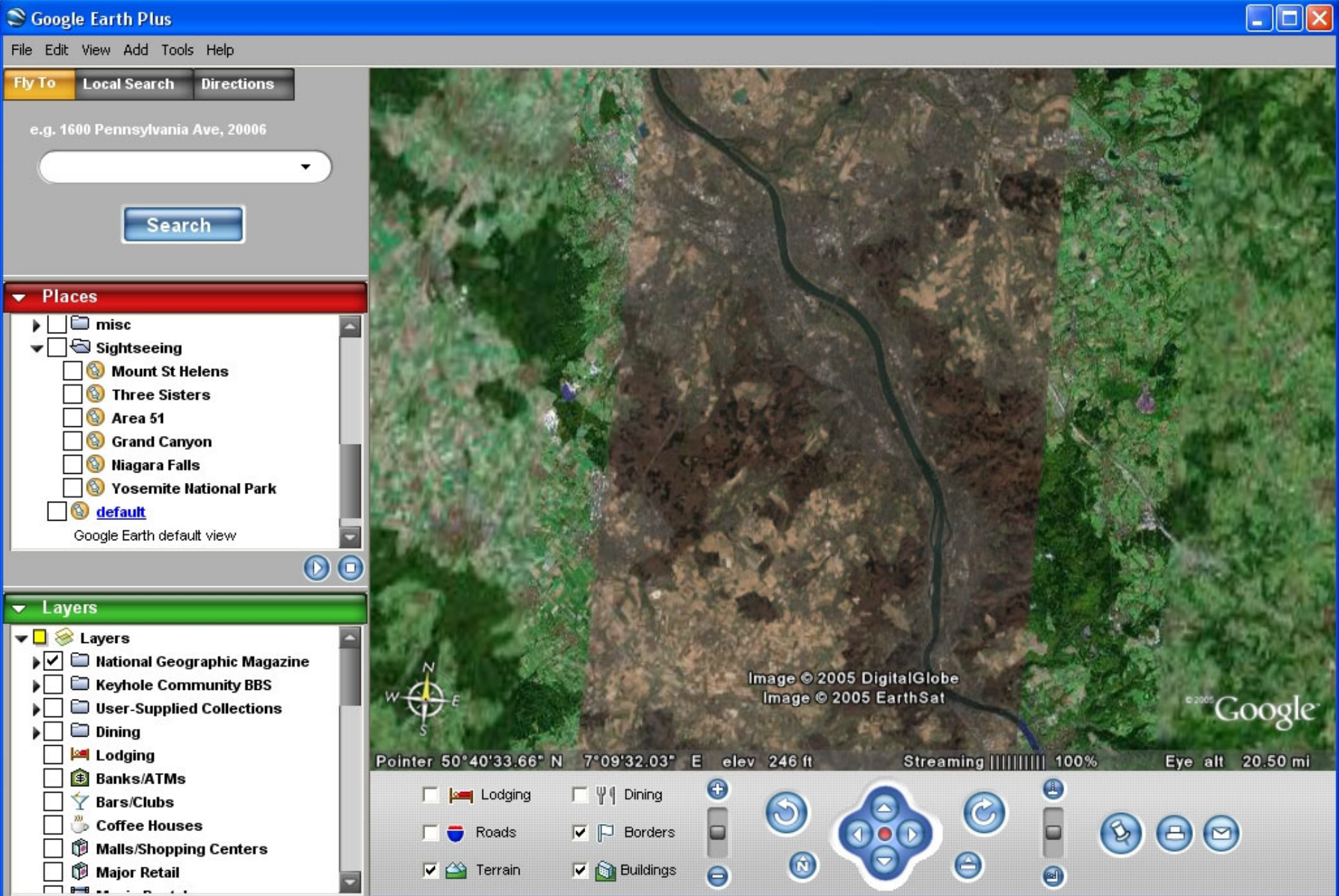
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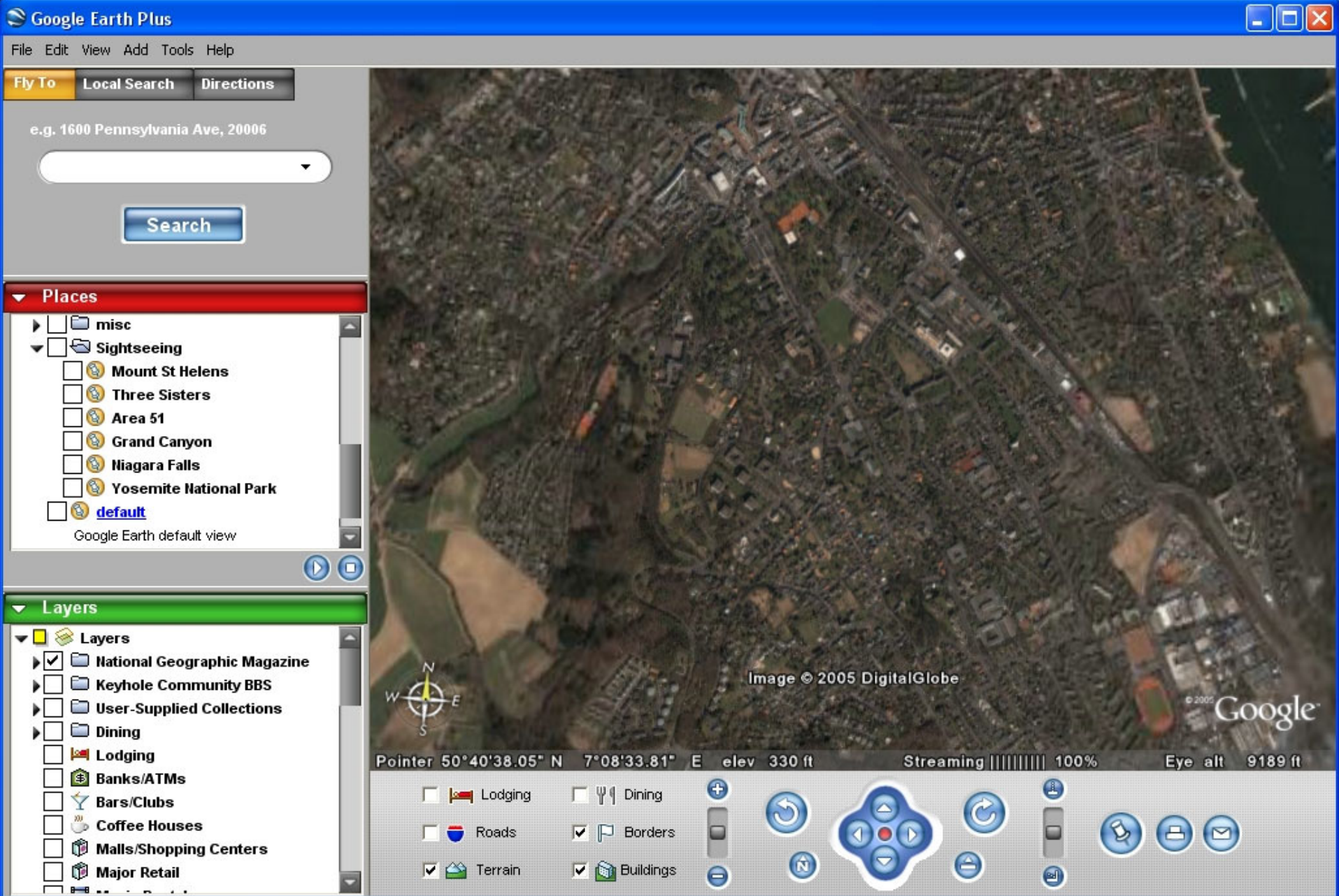


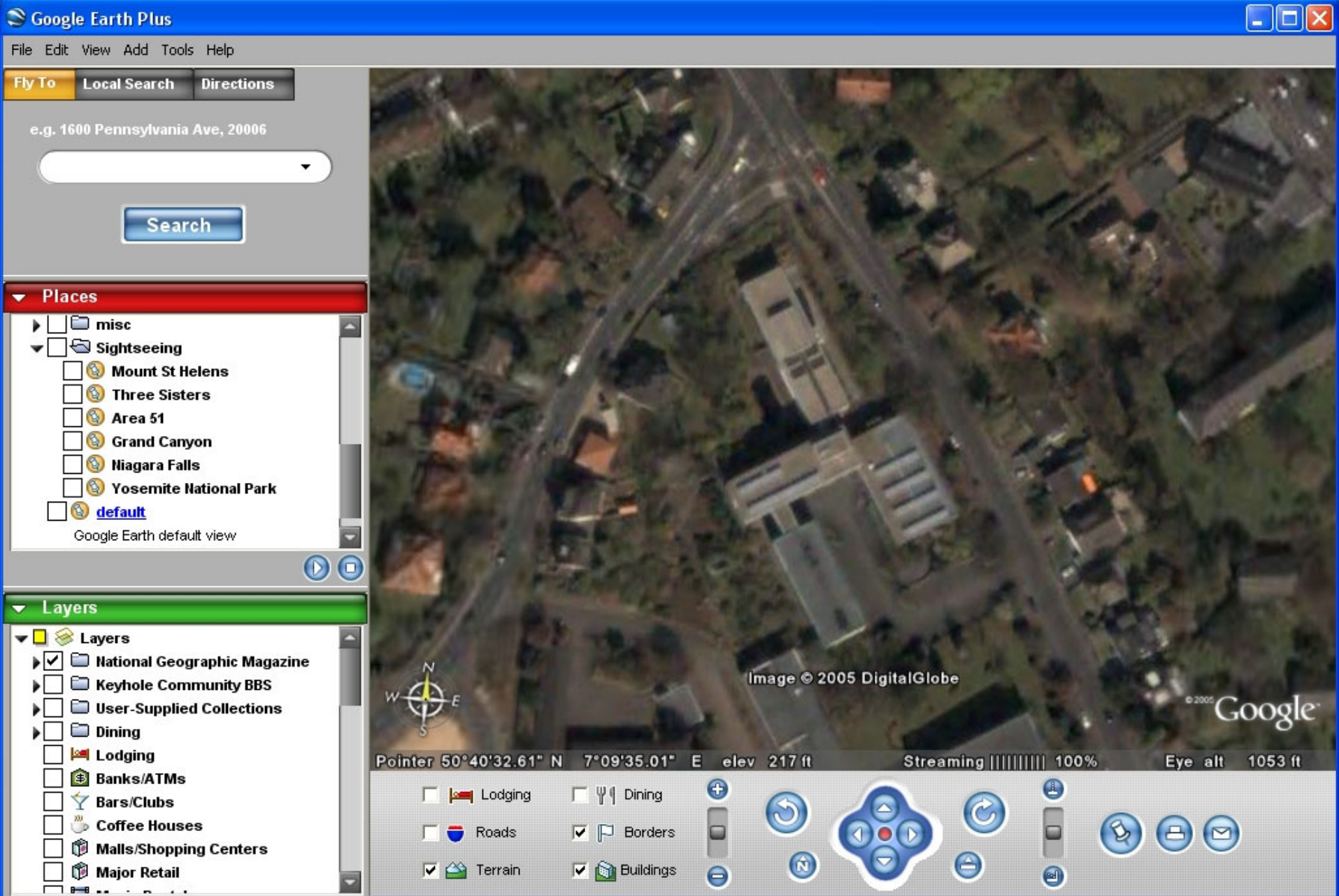
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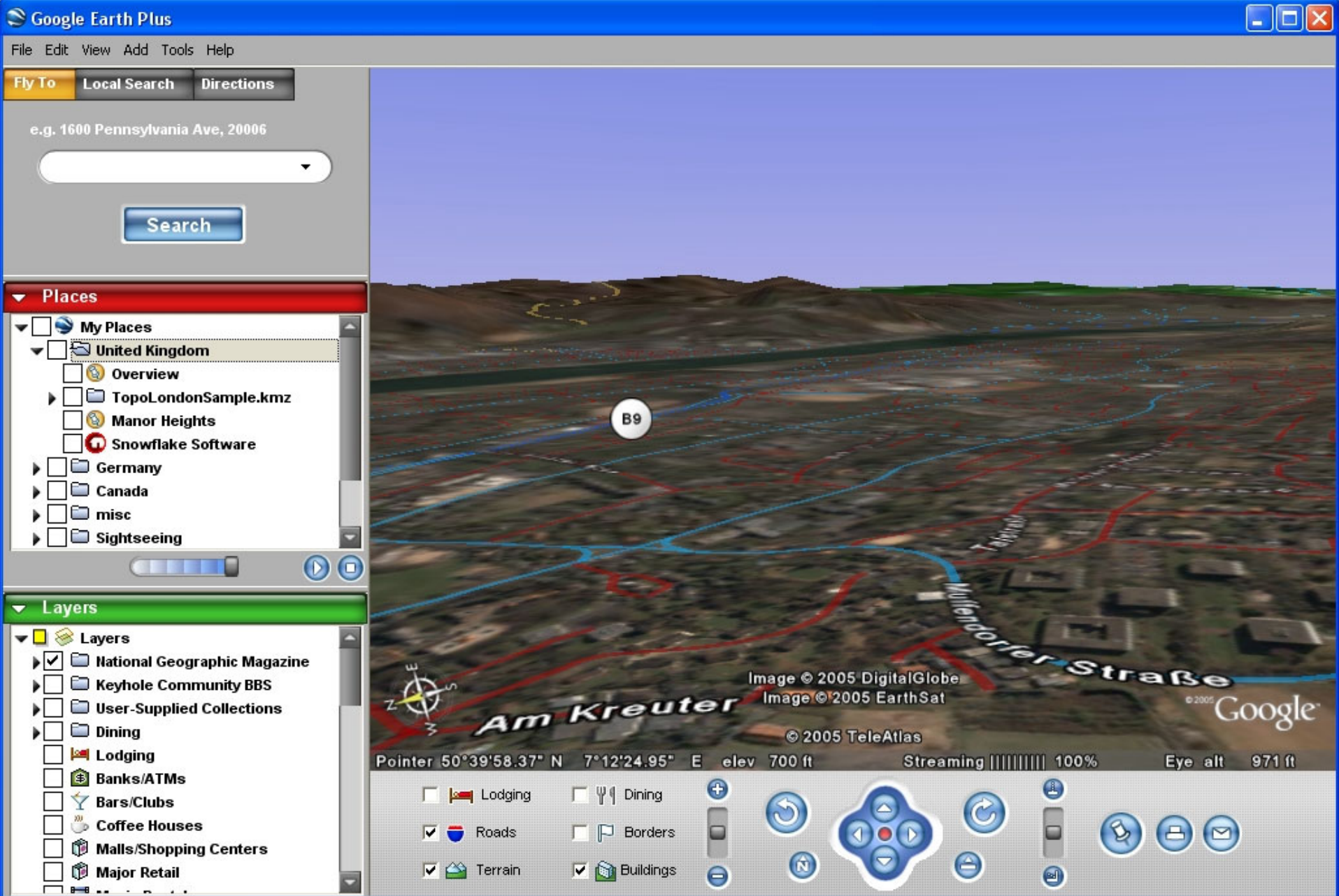


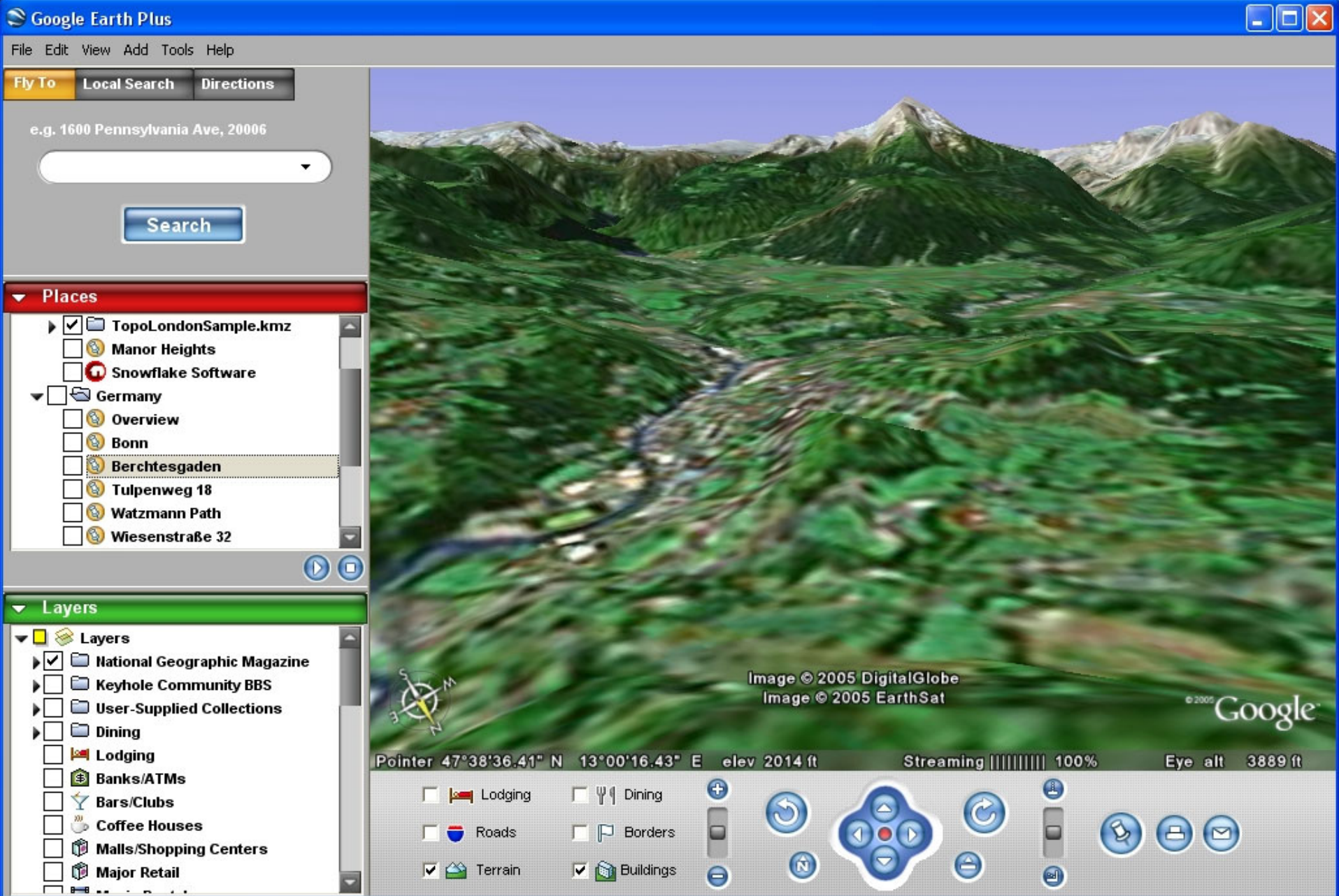












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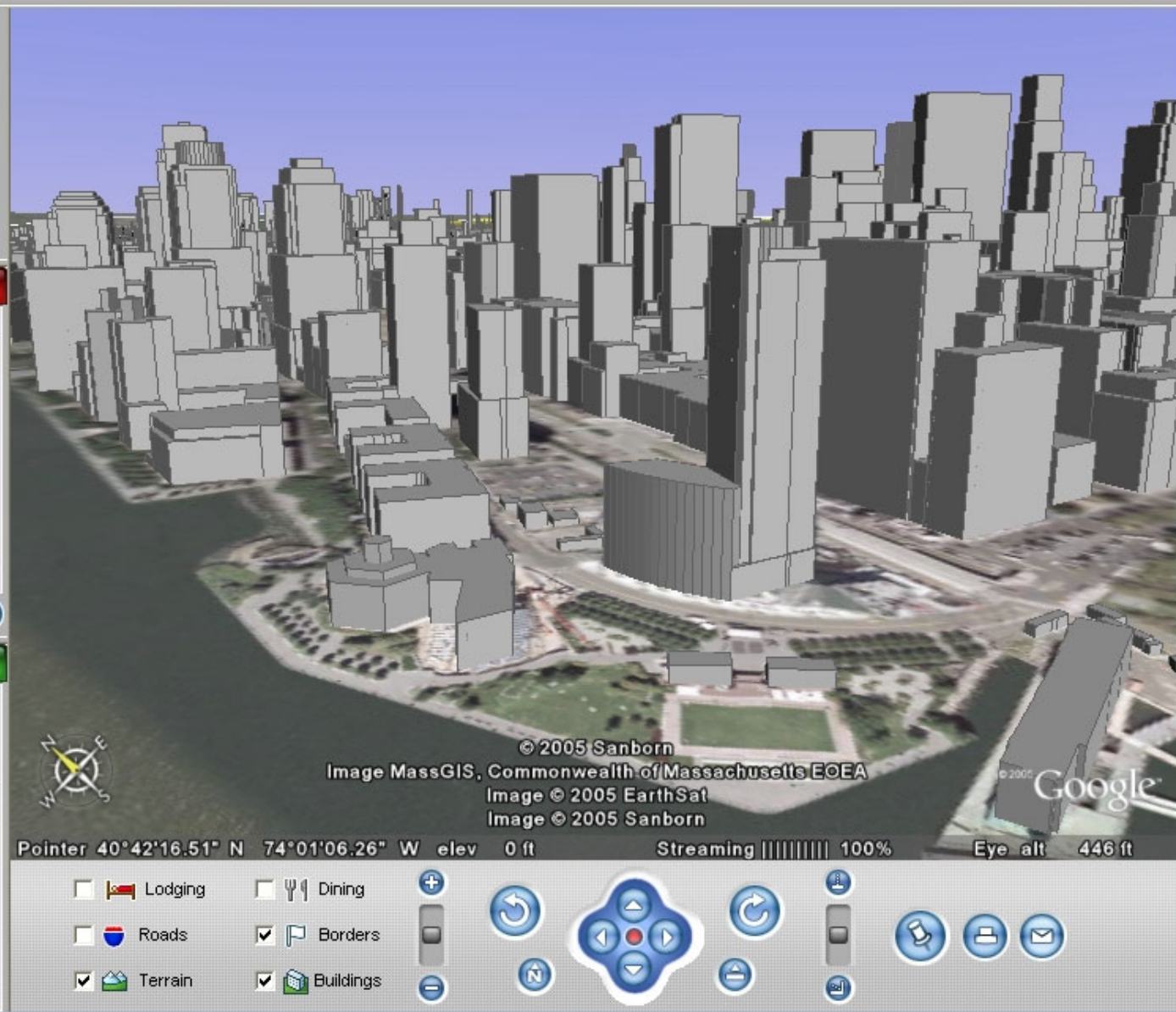
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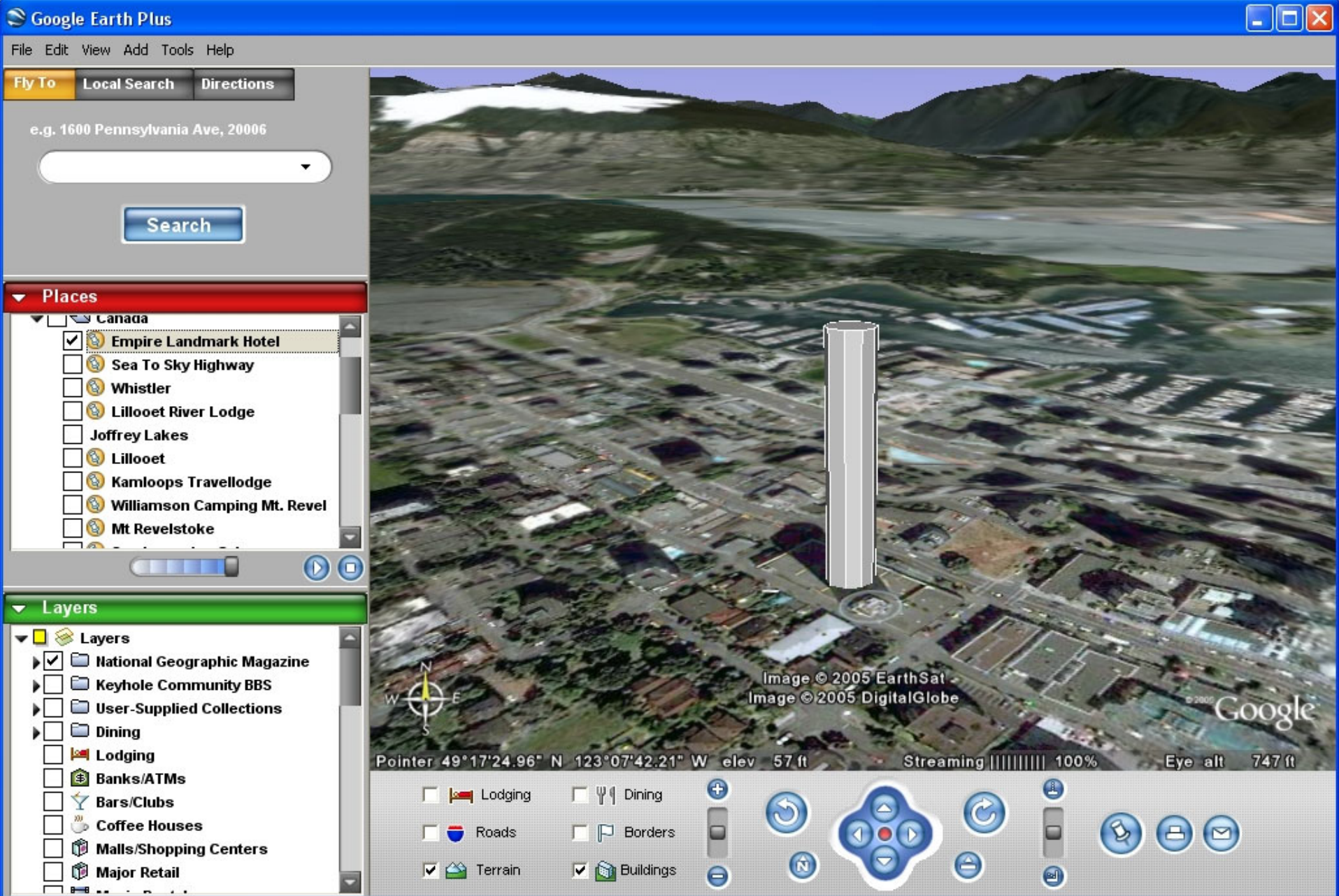
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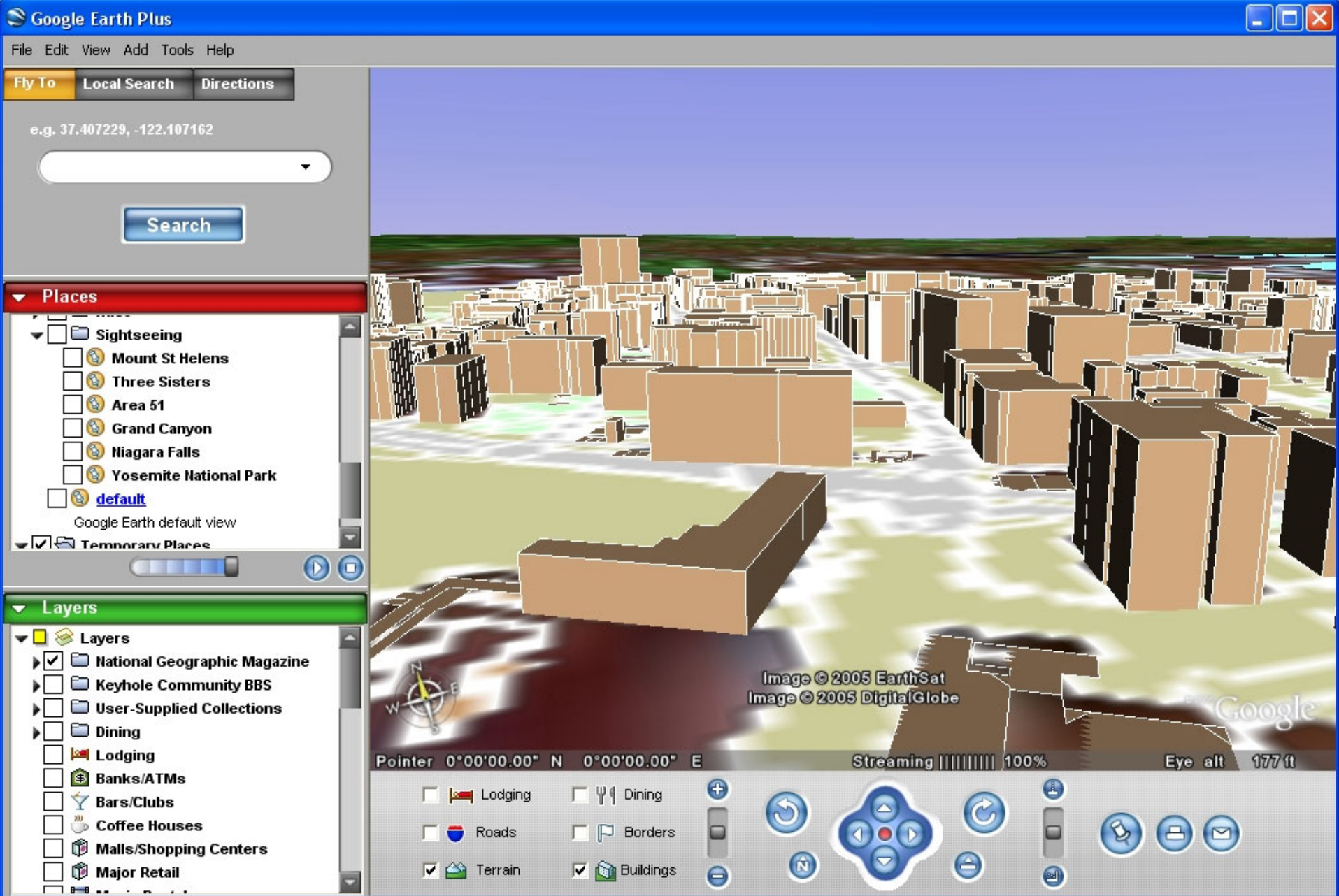


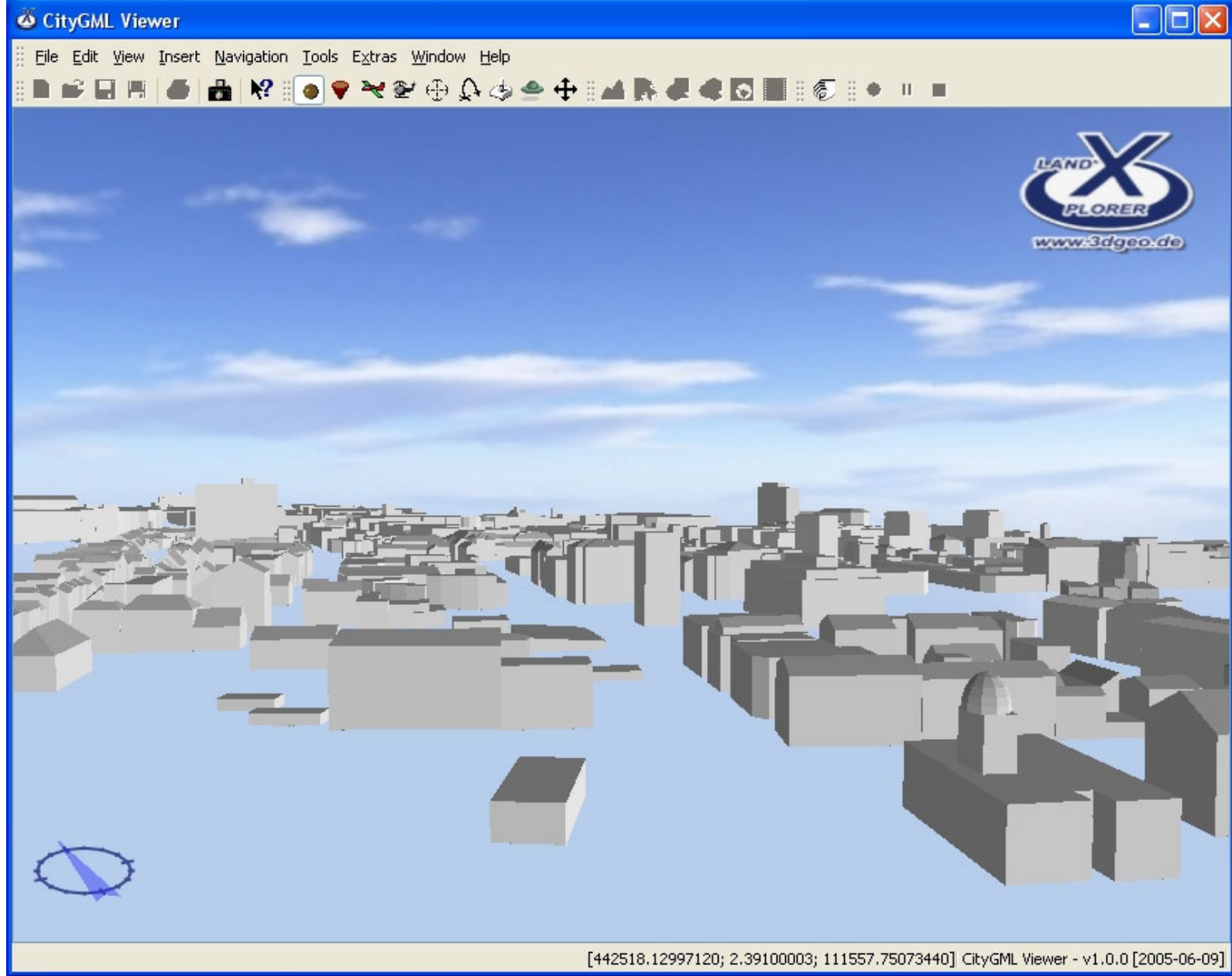
Weitere Eigenschaften?

- Routenplaner
- KML – Editor und Viewer
 - KML = Keyhole Markup Language
 - Konzipiert für Overlays
 - Punkte, Linien, Pfade, Polygone
 - Einfache 3D Objekte (Polygone mit Höhenangabe)
 - Viele Style Optionen (Farben, Opazität, etc.)
 - Ähnlich zu GML2, aber kein GML









Anwendungsfälle

- Suche nach Dienstleistungen
- Reiseplanung
- Routenplanung
- Nachrichten mit Geo-Bezug
- Werbung



Google Earth und OGC Standards

- KML – GML
 - KML ist ähnlich, aber kein GML
- Integration von WFS, WMS
 - Eingeschränkt möglich über Network Links
- CityGML ?
 - CityGML bzw. GML 3 wird z. Zt. nicht unterstützt
 - Zukunft hängt von Google's Motiven ab



Offene Fragen

- Wie entwickelt sich das Verhältnis Google/OGC?
- Folgen andere mit ähnlichen Tools(Microsoft, Amazon, etc.)?
- Welche Auswirkungen hat diese Entwicklung auf SDI/GDIs?
- Was bedeutet das für die SIG3D?