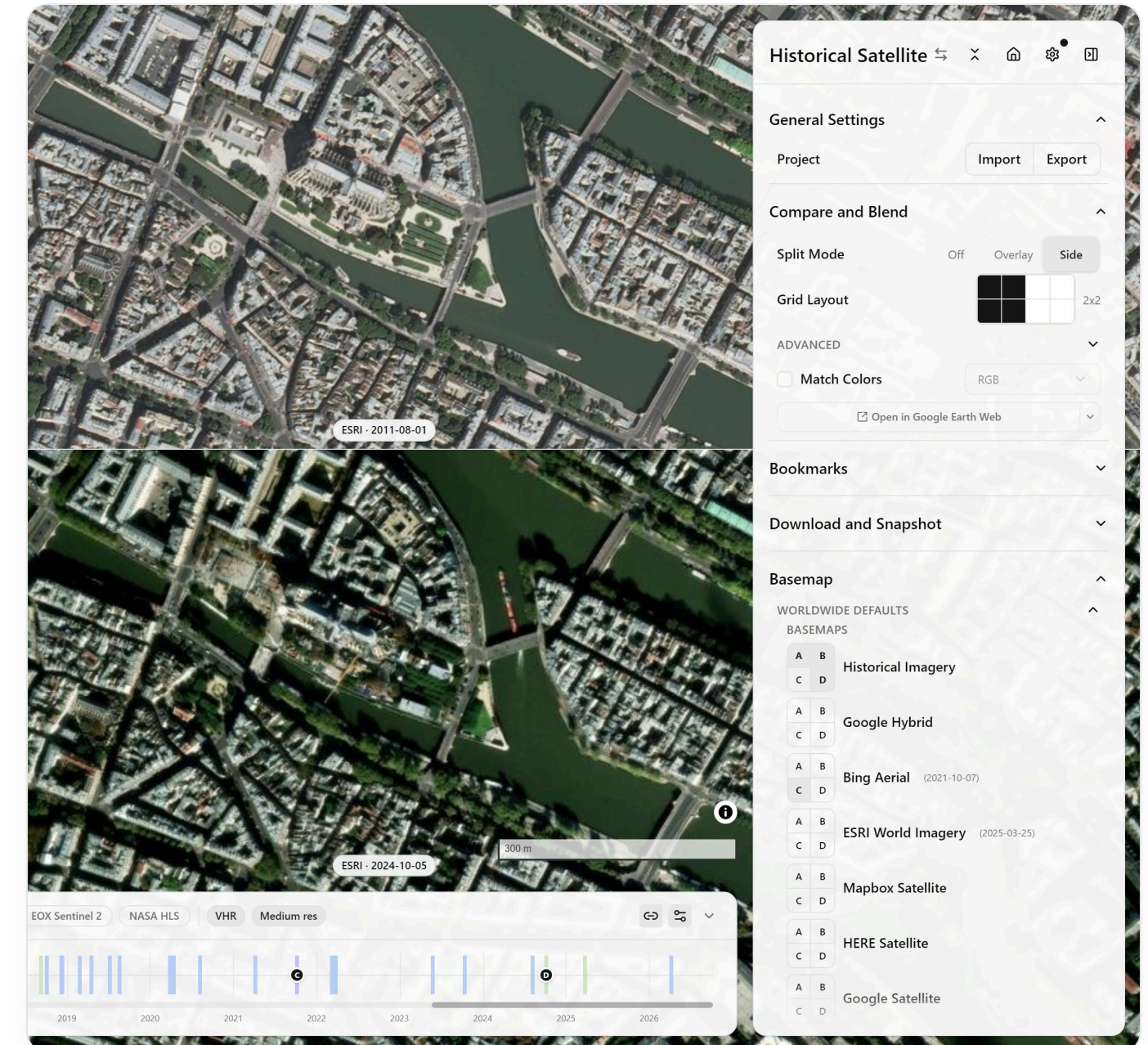


One timeline, every archive

Satellite, aerial and old-map archives that answer a browser, scrubbed by date, compared side by side.



The timeline's own sources

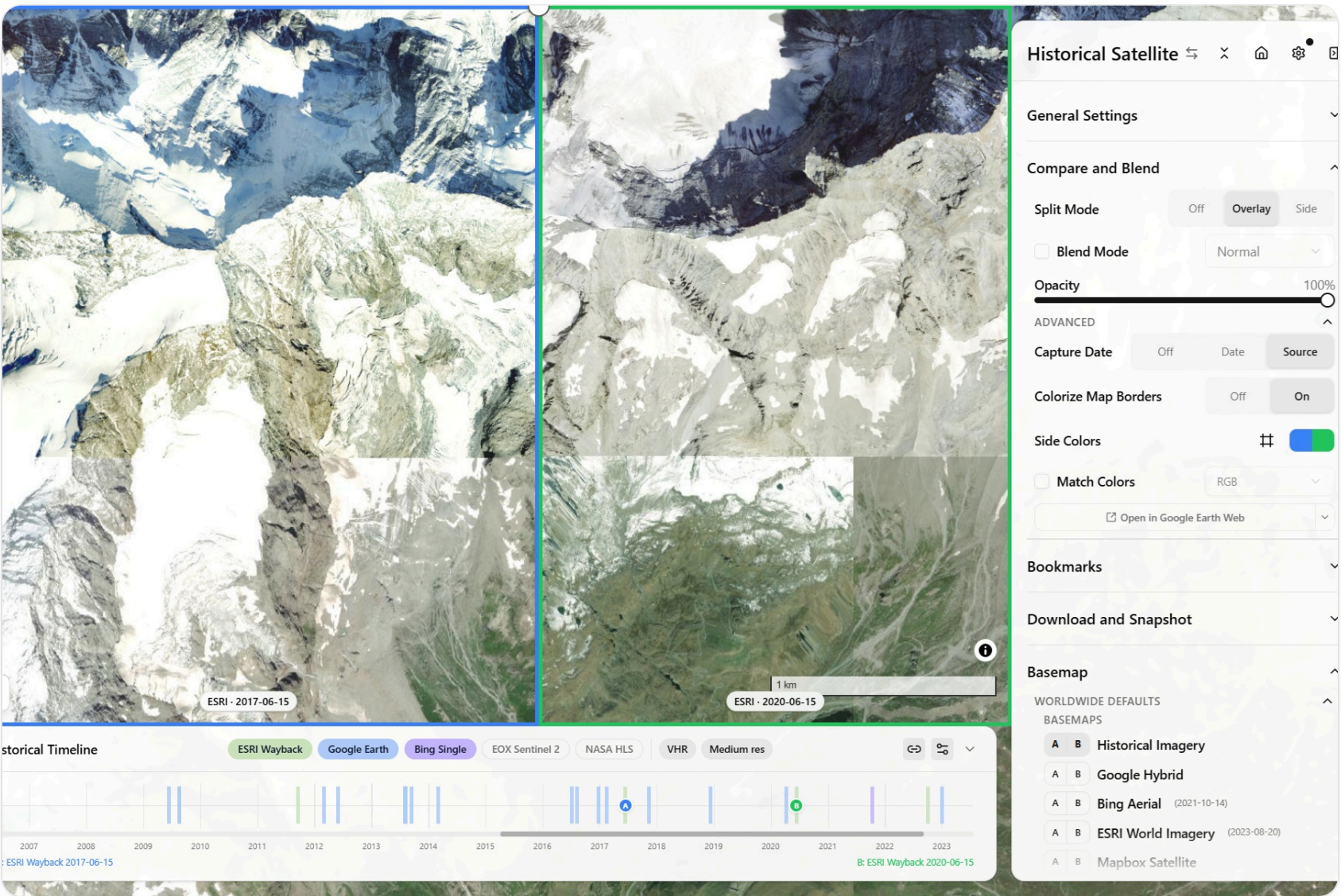
ESRI Wayback dated releases of World Imagery since 2014; release, mosaic and per-tile capture date are three different dates.

Google Earth Historical gehist://, a reverse-engineered quadtree (Iconem GE_TimeMachine); dates live inside each tile, often back to the early 2000s.

Bing Aerial one current capture, no archive.

Planet monthly mosaics with an API key.

NASA HLS · Sentinel-2 · Landsat WELD 1983-2000 medium resolution, behind the Medium res pill.



The timeline panel under the map

A handle per view, a tick per capture

Ticks one per real capture at the view's centre, in the source's colour.

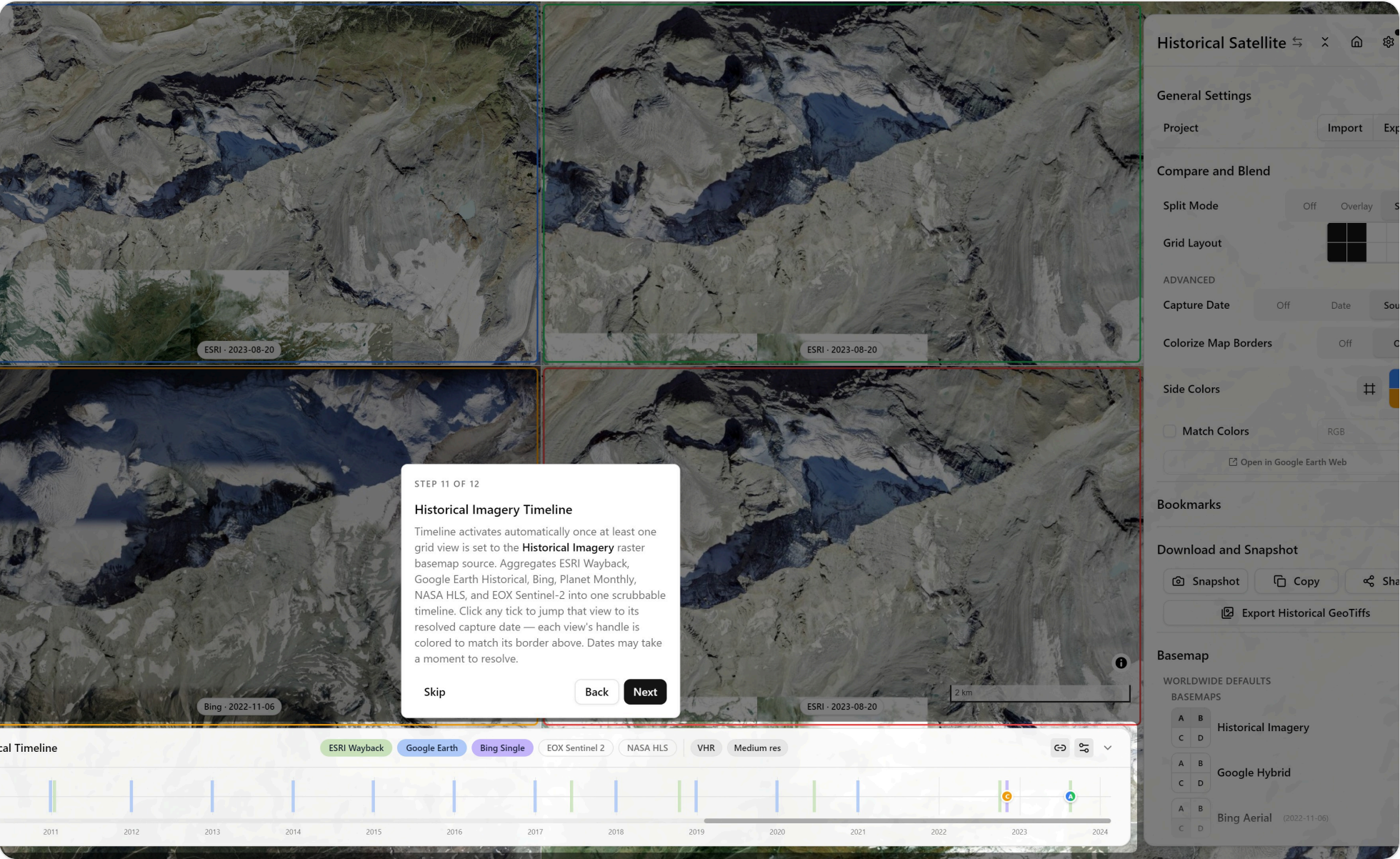
Handles one per view A to H, dragged to a date; the view's basemap follows.

Pills toggle providers; VHR by default, Medium res on demand.

Zoom wheel zooms the track around the cursor, a gutter below pans the window.

Catalogs the button after the pills opens the tree on the next slides.

Date pill on each view: source and capture date, as shown in snapshots.



Scrubbing capture dates across providers

Four root groups, queried per view

■ Post-crisis open data OpenAerialMap · Maxar Open Data · Vantor Open Data · NOAA Emergency Response · Planet disaster data	■ Community indexes OSM Editor Layer Index · NextGIS QMS · ArcGIS Online · CORONA Atlas (CAST)	■ National catalogs IGN Remonter le temps · swisstopo · Kartverket · about 70 national, regional and city archives	■ Old maps, warped Allmaps · Map Warper · Wikimaps Warper · SLUB Kartenforum · USGS historical topo	
69 national sources added, about 1,502 dated layers	~1,300 ELI layers with a capture date, 1840s to today	~9,000 SLUB georeferenced old maps of Germany	279 CORONA KH-4 mosaics, 1963-72, Middle East	~57,000 David Rumsey maps, through Allmaps

Every checked catalog is asked for the view as the camera settles; its items become ticks. Selection travels in the link: [timelineCatalogs](#).

STAC searches, COGs drawn through TiTiler

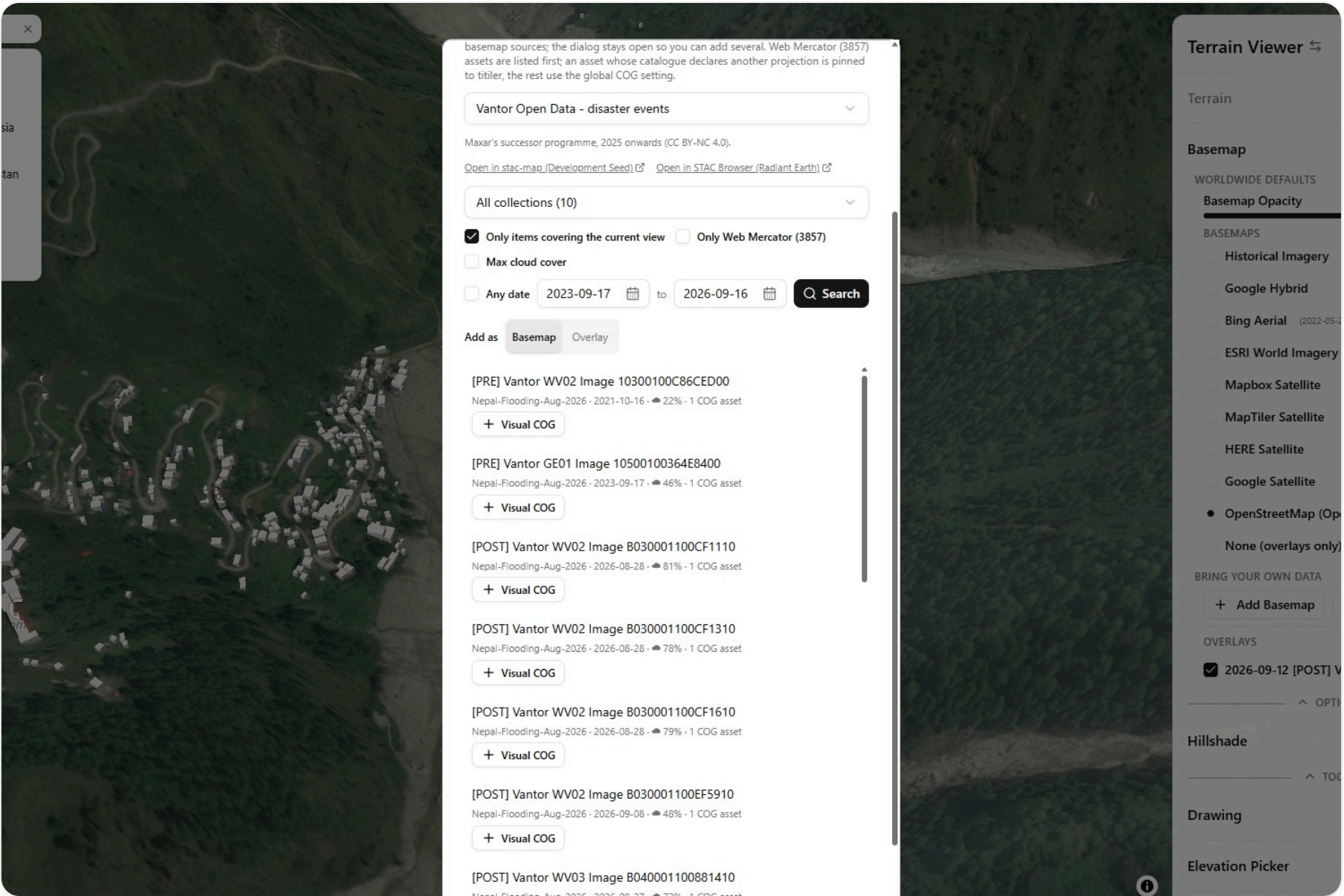
HOT STAC api.imagery.hotosm.org/stac, searched with the view's bbox: OpenAerialMap, Maxar, Vantor, NOAA.

One tick per acquisition items of one date and flight grouped; the tile under the centre is drawn.

Planet disaster data a static STAC on source.coop, no search API: a session index of every extent, about 10 s, then filtered.

Within the timeline window passes the window to the STAC datetime filter.

Any STAC a custom catalog on the timeline is the planned extension of the same mechanism.



Vantor open data over the 2026 Nepal flooding, each scene addable as basemap or overlay

The registries OSM editors already keep

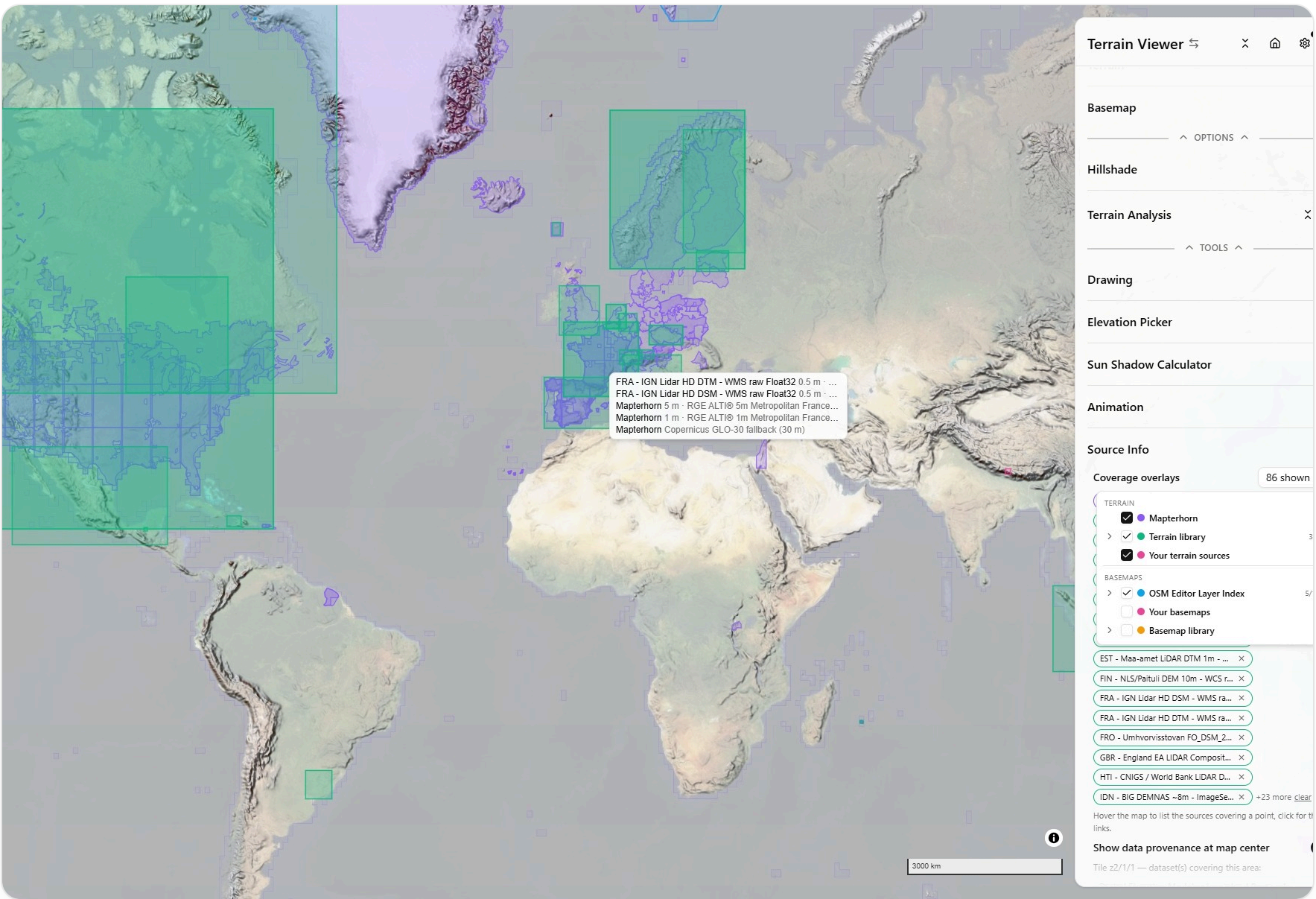
OSM Editor Layer Index ~1,500 agency services with licence recorded, bundled and bumped weekly; a tick for every dated layer whose real polygon touches the view.

NextGIS QMS TMS and WMS services whose declared extent touches the view, as footprints.

ArcGIS Online public image and map services found by bbox, sized to the view, dated from title or tags.

CORONA Atlas CAST's GeoServer, block index baked in since the list sends no CORS header.

Coverage first the same index entries draw as outlines before loading, with hover and click lists.



Mapterhorn, library bounds and ELI footprints over Europe, with the hover list

About seventy archives, one sub-heading per country

France	IGN: Cassini 1756-1815, État-major 1820-66, 1950-65 mosaic, every yearly ortho since 2000, SPOT, Pléiades; CRAIG, DataGrandEst	Norway	Kartverket Amtskart 1826-1916
Switzerland	SWISSIMAGE since 1926; Dufour, Siegfried, Landeskarte since 1844; Basel 1615-, Zürich, Geneva	Italy	Lombardy GAI 1954, Tuscany 1954-, Piedmont 1852-, South Tyrol 1858-, Sardinia 1940-
Germany	NRW 1951-2024 (73), Baden-Württemberg 1960-, Bavaria, Berlin 1953-, Hamburg, Saxony 1922-	North America	NYC 1924-, Washington DC 1791-, Toronto 1931-, Ottawa 1928-, Seattle 1936-, Iowa by decade
Spain	PNOA histórico 1956-, Madrid 1927-2009 (186 layers), Catalonia, Basque Country, Navarre 1929-	Asia · Oceania	Japan GSI 1936-90, Taiwan maps 1895-, NSW 1943-2013
Austria · Belgium	Vienna 1938-, Tyrol 1940-, Vorarlberg 1930-; NGI maps 1869-1994 (110), Flanders 1571-	How	one tile at the centre per layer, or the agency's flight index (NRW, Bavaria, Tyrol); identical years deduplicated

■ Old maps, digitised and warped

Scanned sheets, placed from their control points

Allmaps IIF maps with a Georeference Annotation, warped on the GPU from control points and mask; Leiden, TU Delft, BnF, Leventhal, Internet Archive, David Rumsey.

Map Warper · **Wikimaps Warper** rectified maps by bbox, a tick at 1 January of the depicted year.

SLUB Kartenforum Messtischblätter, topographic maps, city plans, by publication year.

USGS historical topo every edition of every quad since 1884, from Esri's image service.

Not reachable from a browser Old Maps Online, Library of Congress, Rumsey MapRank: no CORS, Cloudflare. Their maps arrive through Allmaps instead.



OSM 3D buildings over a Vantor post-event overlay, Nepal

Hover a tick: the card

Source and date first: "ELI 2020", "OAM 2023-04-18".

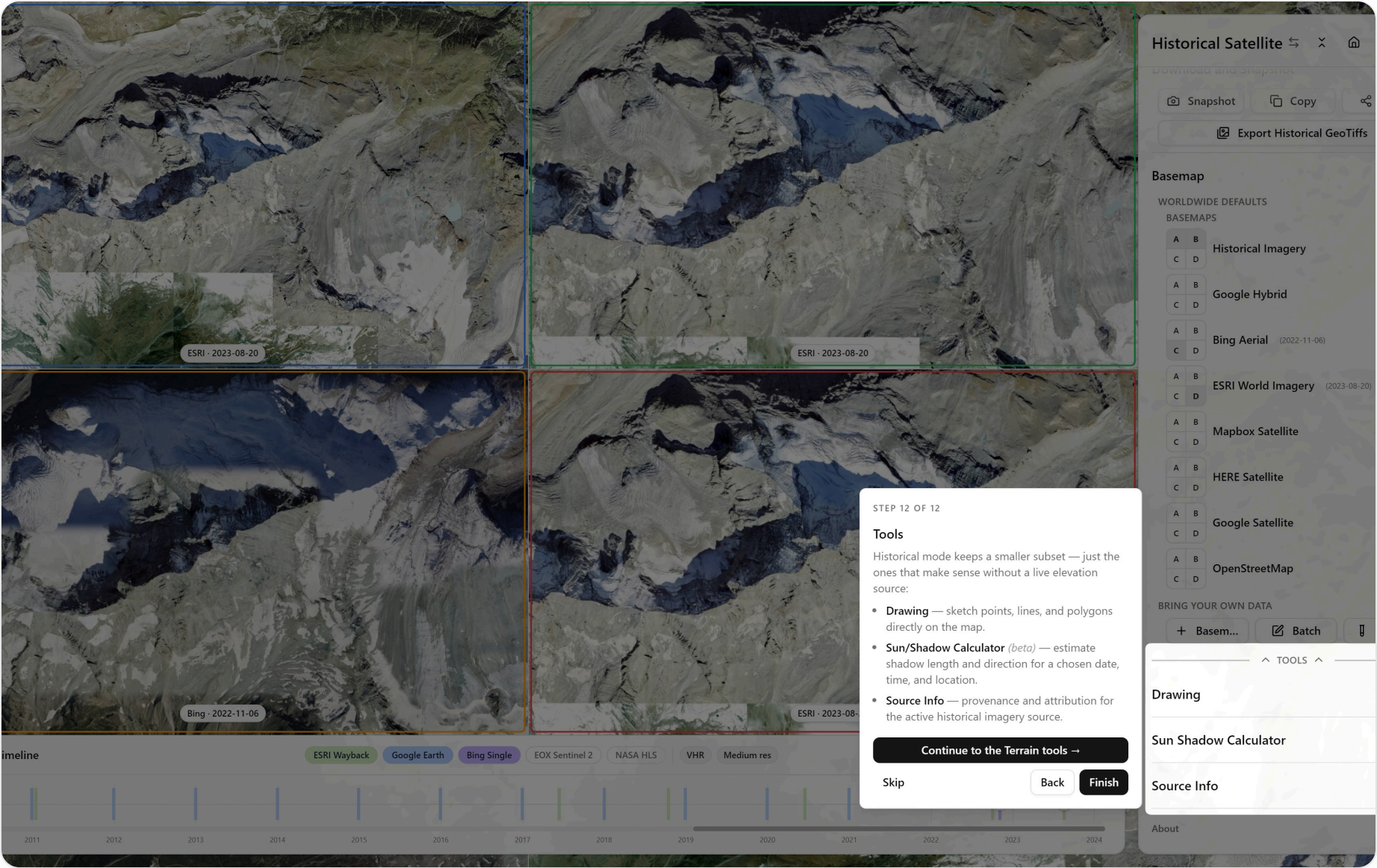
Item name, catalog, resolution and licence when the catalog states them.

Thumbnail where one exists: OpenAerialMap, Maxar, Vantor, NOAA, Planet, SLUB.

Put it on a view as basemap or as overlay, on any visible view.

Keep among your own sources; otherwise a picked item is transient.

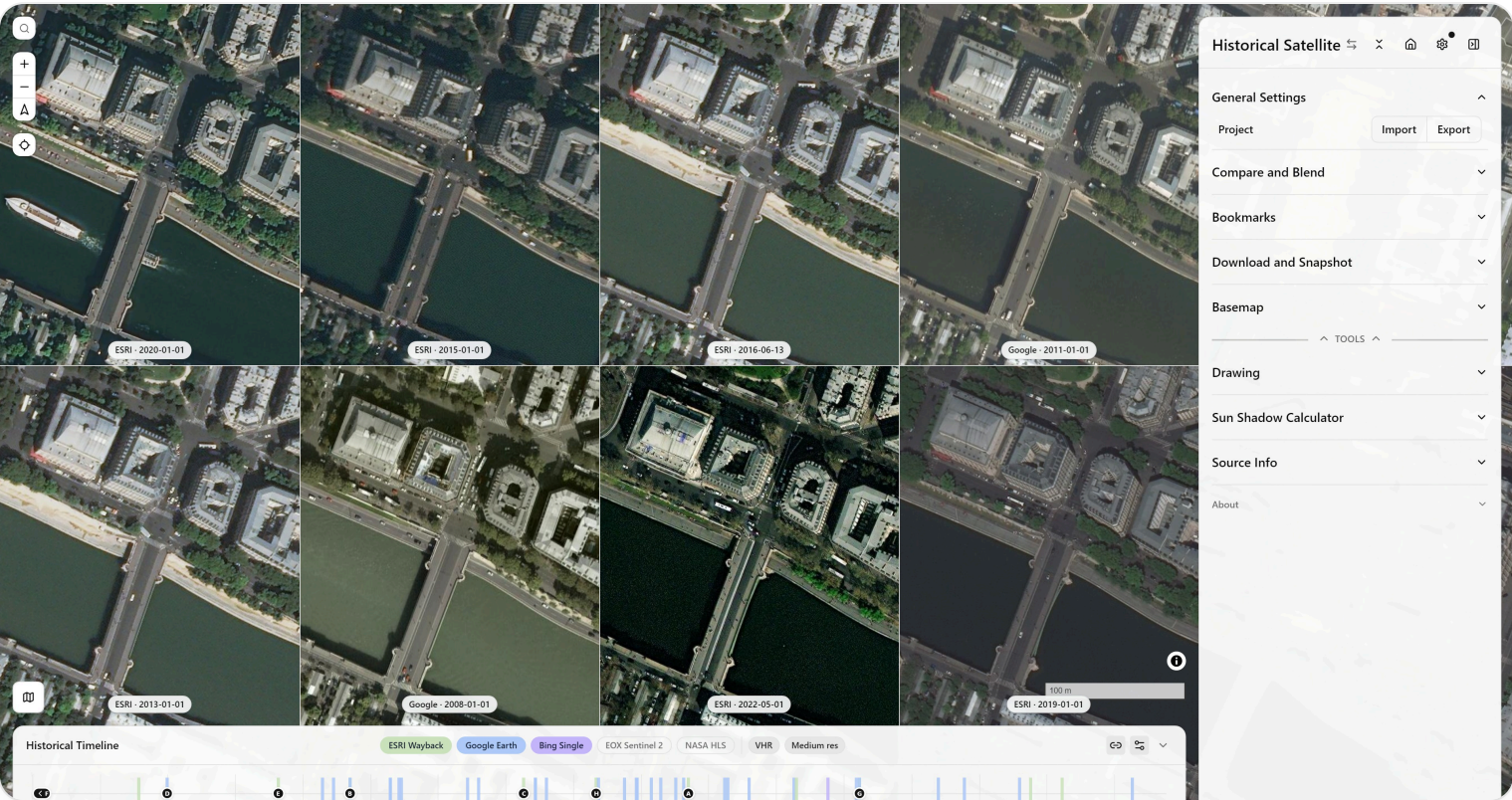
Footprints on the map every item found, a faint outline in its catalog's colour; a small item framed.



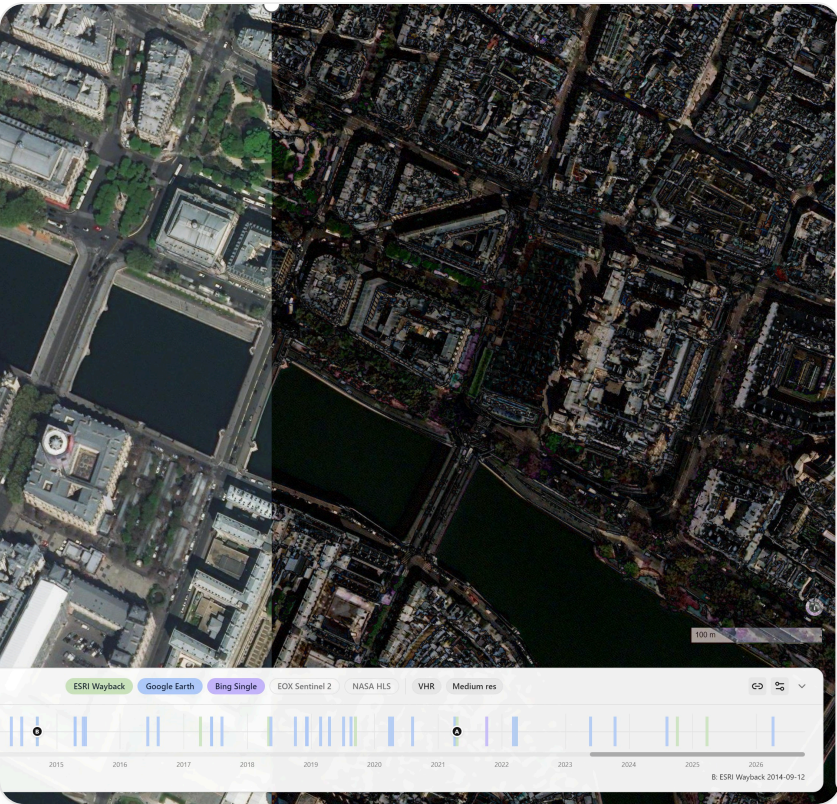
Historical mode tools: timeline, catalogs, per-view sources

■ Compare

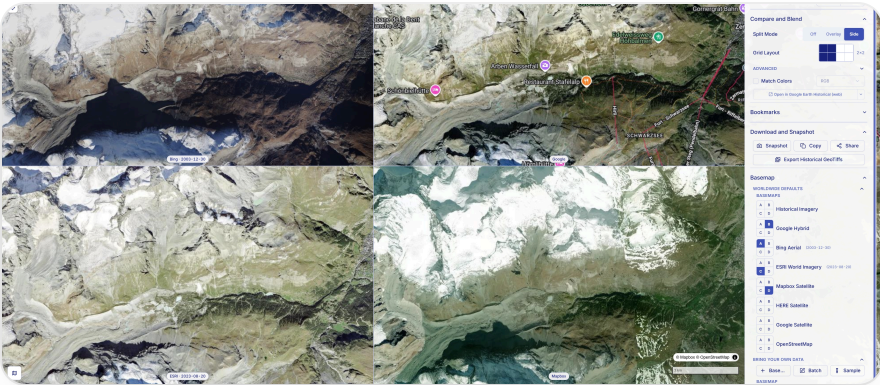
Grid, blend, match



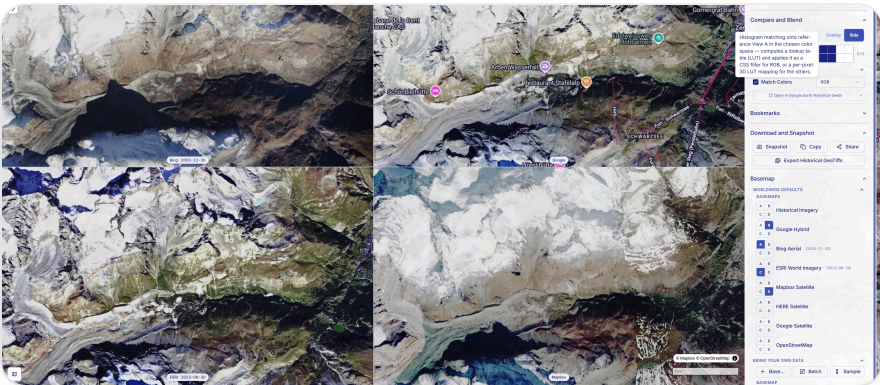
4x2: eight views, Wayback and Google Earth across dates, Île de la Cité



Overlay, Difference blend: 2021 against 2015



Match colors off



Match colors on: B, C, D recoloured onto A's histogram

■ Side

Any grid to 4x2. A source, a date and a border colour per view; click a row label to set all views.

■ Overlay

Wipe gutter and opacity on the map; Normal, Multiply, Difference.

■ Match colors

Per-channel CDF matching as a live SVG feComponentTransfer filter; HSL, HSV, LAB, LCH as a per-pixel LUT.

Where is there data, before loading it

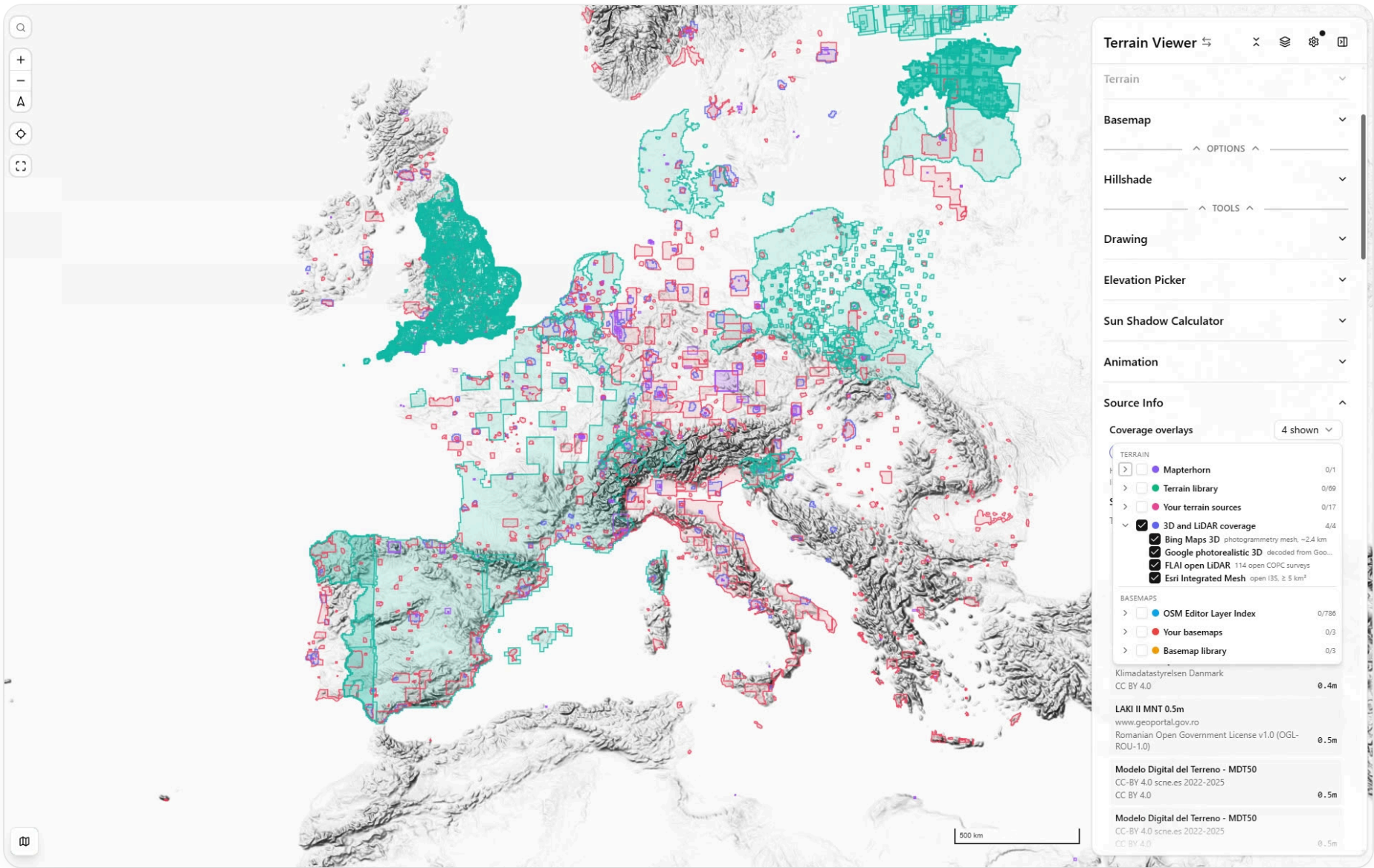
Terrain Mapperhorn's per-country polygons, the library's bounds, your sources.

3D and LiDAR Bing Maps 3D (from its own subtree availability), Google photorealistic 3D (its coverage layer, decoded), Esri Integrated Mesh (1,719 of 10,900 services), FLAI open LiDAR (114 COPC footprints), OpenTopography.

Basemaps ELI polygons, the basemap library, your basemaps, and the whole historical catalogs tree.

Reading it hover lists what covers a point, click ranks by intersection over union, finest first.

In the link coverageOverlays=mapterhorn,library



Bing (indigo), Google (rose), Esri mesh (violet), FLAI (teal) over Europe

Batch GeoTIFFs, and the catalog itself as STAC

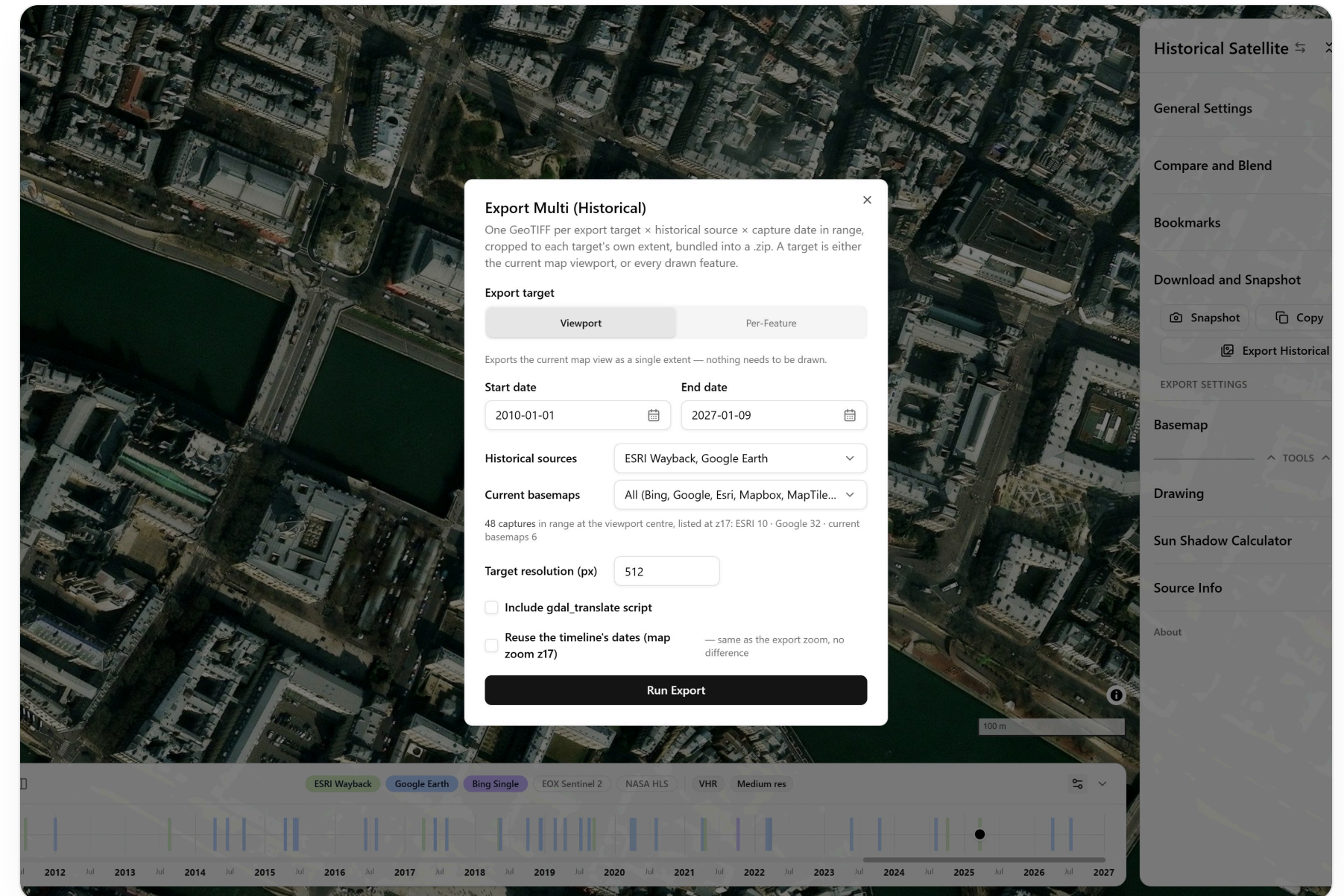
Export Multi (Historical) one RGB GeoTIFF per target × source × capture date, cropped, in one zip; per-feature targets from drawn layers.

gdal_translate script a .bat per target to refetch the same extents at native resolution.

/docs/stac/catalog.json 8 collections: terrain-builtin, libraries, historical-imagery, eli (~1,750), ign-historical (~140), national-historical (~330), timeline-catalogs.

web-map-links xyz, wms, wmts links per item; each links back to the app at its place.

developmentseed.org/stac-map/?href=https://terrain-viewer.iconem.com/docs/stac/catalog.json



48 captures from Wayback and Google Earth over Île de la Cité, one GeoTIFF each

Scrub a date. Then eight.

01 `historical-satellite.iconem.com`

02 `terrain-viewer.iconem.com/docs/features/basemaps-and-historical`

03 `terrain-viewer.iconem.com/docs/features/coverage-overlays`

04 `github.com/Iconem/GE_TimeMachine`
