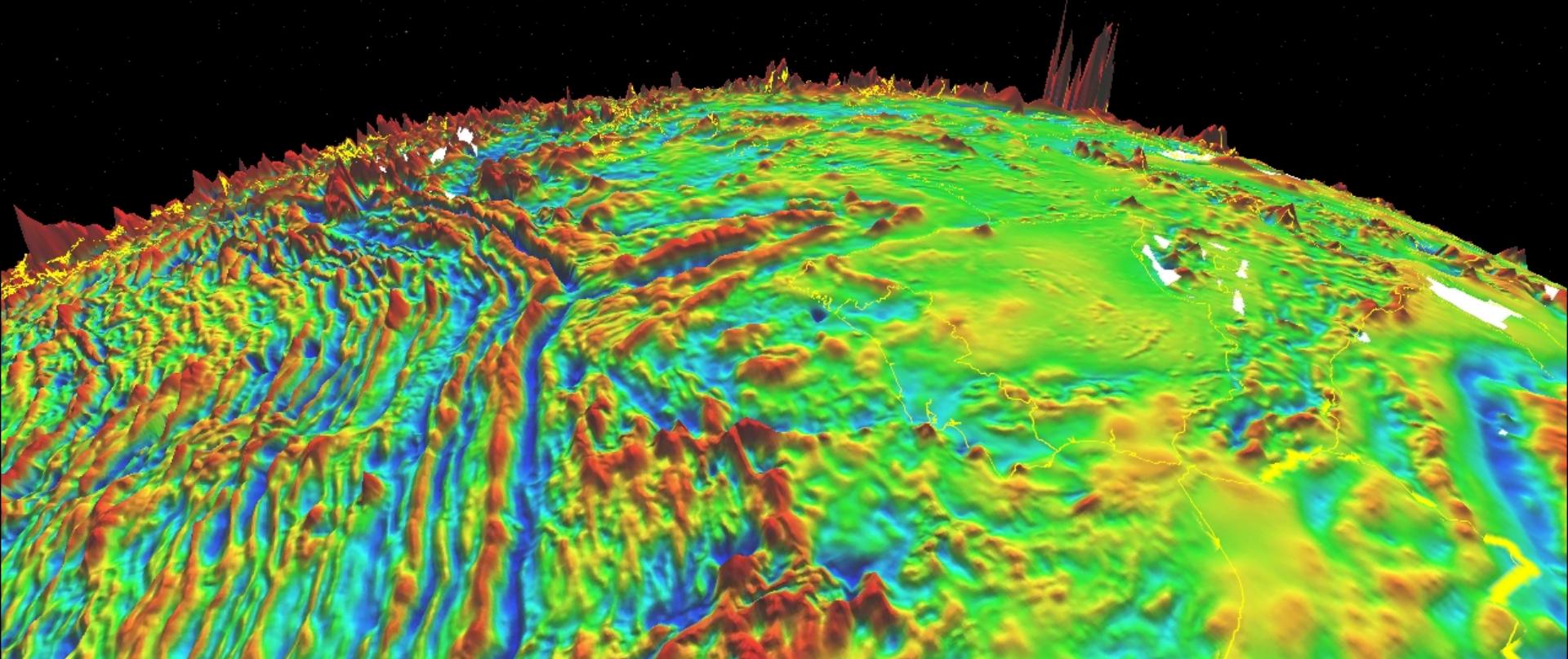


Earth Magnetic Anomaly Grid (EMAG2-v3) public map API announcement



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Earth Magnetic Anomaly Grid (EMAG2v3)

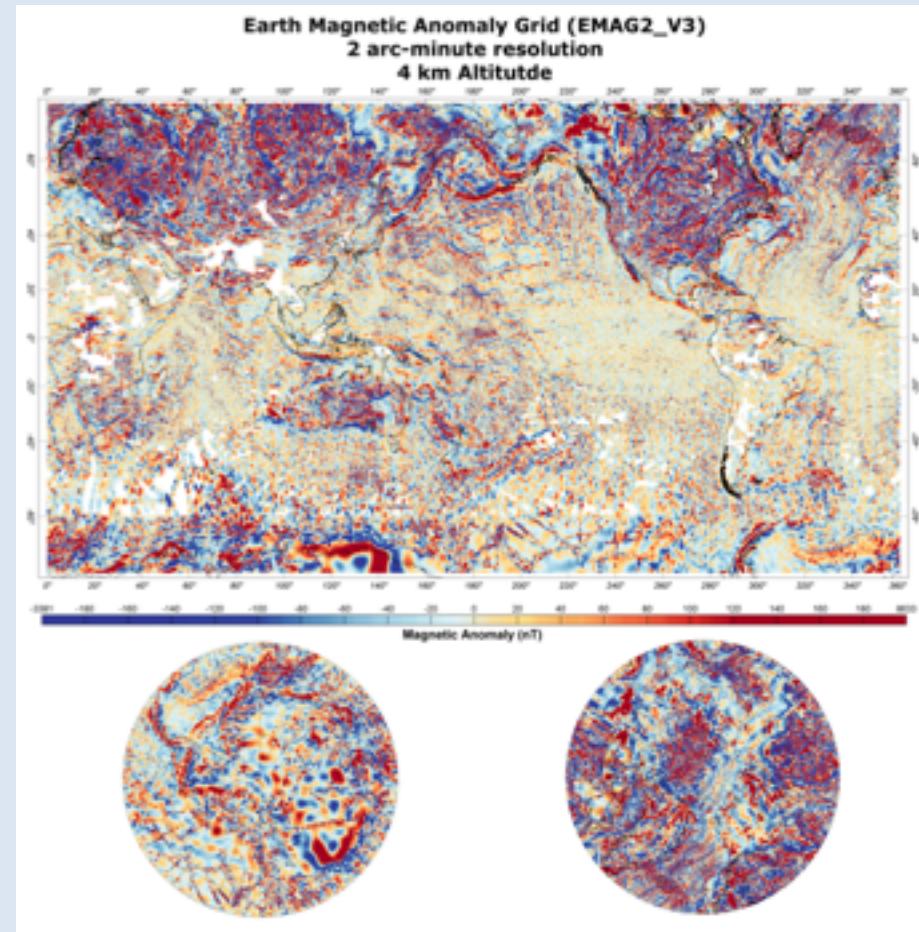
Largest, open compilation of magnetic survey data

Marine and airborne tracklines surveys

Precompiled grids over continental areas

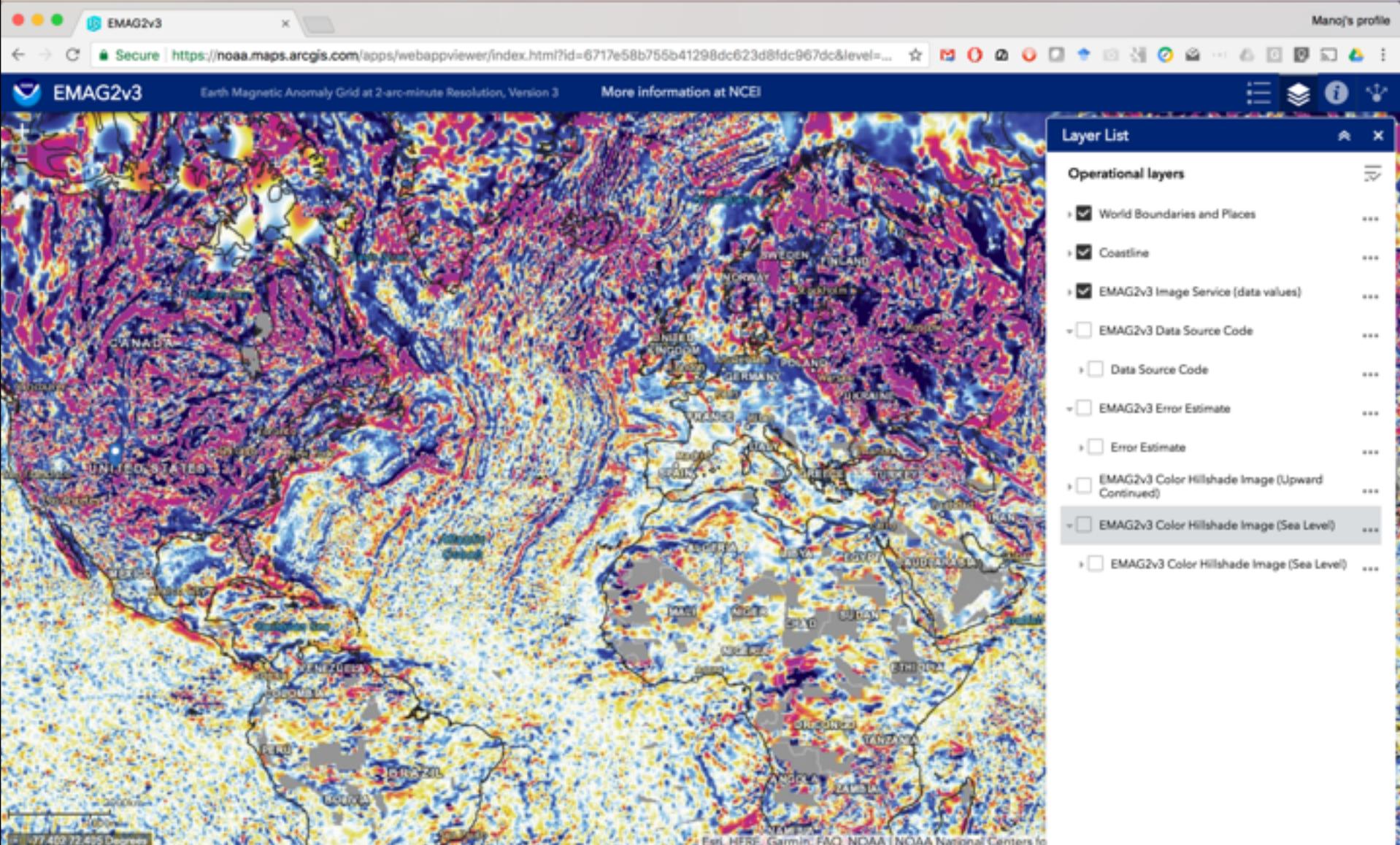
Satellite derived models

<https://www.ngdc.noaa.gov/geomag/emag2.html>



Meyer, B., Chulliat, A., & Saltus, R. (2017). Derivation and error analysis of the earth magnetic anomaly grid at 2 arc min resolution version 3 (EMAG2v3). *Geochemistry, Geophysics, Geosystems*, 18, 4522–4537. <https://doi.org/10.1002/2017GC007280>

EMAG2v3 web map service



<https://www.ngdc.noaa.gov/geomag/emag2.html>

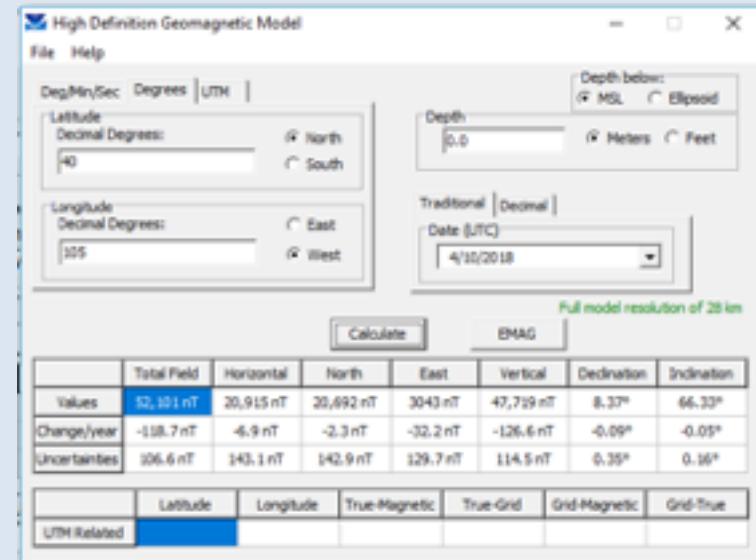
Map API for software integration

Base URL:

<https://noaa.maps.arcgis.com/apps/webappviewer/index.html?id=6717e58b755b41298dc623d8fdc967dc>

Longitude and latitude coding : marker=-105,40

Zoom: level=8



Example:

<https://noaa.maps.arcgis.com/apps/webappviewer/index.html?id=6717e58b755b41298dc623d8fdc967dc&level=8&marker=-105,40>

Map API for data extraction

Example API call

```
https://gis.ngdc.noaa.gov/arcgis/rest/services/EMAG2v3/ImageServer/getSamples?geometryType=esriGeometryPoint&geometry={"x":105,"y":40,"spatialReference":{"wkid":4326}}
```

This returns the values in html or JSON format

ArcGIS REST Services Directory
Home > services > EMAG2v3 (ImageServer) > getSamples

Get Samples: (EMAG2v3)

Geometry:

Geometry Type:

Sample Distance:

Sample Count:

Mosaic Rule:

Pixel Size:

Return First Value Only: True False

Format:

Questions? manoj.c.nair@noaa.gov