

PATTERN INFORMATICS DEMO SNAPHOTS WITH BIG SIZE DATA

Demos are done with whole seismic data records for different bbox values

Data Size: 10,908KB data in GML

Time to get Data: 10 secs

Bbox: -124.85, 32.26, -113.56, 42.75

Layers: Google Map and World Seismic Records

The screenshot displays the Pattern Informatics Data web application interface. The main map area shows a dense distribution of blue dots representing seismic data points over a geographic region. The map is titled "Pattern_Informatics Data" and includes coordinate axes. The left sidebar contains several control panels:

- Select Layers for:** Pattern_Informatics. Layers include Nasa:Satellite, Google:Map (checked), Google:Satellite, California:States, and World:Seismic (checked). An "Update MAP" button is present.
- Set bbox (minx,miny,maxx,maxy):** A "Go" button and input fields for coordinates.
- Resize Map:** A dropdown menu set to "400 x 400" and a "Customized Dim" input field.
- Time Interval for Seismic Data:** (Month / Day / Year). The "From (t0)" field is set to 01 / 01 / 1900 and the "To (t2)" field is set to 12 / 31 / 2006. A "Min Magnitude" field is set to 0.
- PI Specific parameters:** (Not effect the current MAP). The "Estimate(t1)" field is set to 06 / 01 / 1990. The "Bin Size" is set to 0.3 (resolution). The "Time Steps" field is set to 30.

The bottom section features a "Map Movie" panel with a "How to run" link. It states "Movie created based on the data from : 01/01/1900 to : 12/31/2005" and includes a "Select Time Periods" dropdown set to "per year" and a "Create Movie" button. A "PLOT PI OUTPUT" button is located at the bottom left.

Data Size: 14,521KB data in GML

Time to get Data: 14 secs

Bbox: -130.5, 27.01, -107.92, 48

Layers: Google Map and World Seismic Records

The screenshot shows a web application interface for visualizing seismic data. The interface is divided into several sections:

- Top:** A standard Windows-style toolbar with navigation and application icons.
- Left Sidebar:**
 - Select Layers for:** A dropdown menu set to "Pattern_Informatics". Below it are checkboxes for "Nasa:Satellite", "Google:Map" (checked), "Google:Satellite", "California:States", and "World:Seismic" (checked). An "Update MAP" button is at the bottom.
 - Set bbox (minx,miny,maxx,maxy):** A "Go" button and a set of four input fields for coordinates.
 - Select Area of Interest:** A "Zoom to ..." dropdown menu.
 - Resize Map:** A dropdown menu set to "400 x 400".
 - Customized Dim:** Two input fields for width and height.
 - Time Interval for Seismic Data (Month / Day / Year):** Fields for "From (t1)" (01 / 01 / 1900) and "To (t2)" (12 / 31 / 2005). The "To (t2)" field is highlighted with a yellow oval.
 - Min Magnitude:** An input field set to "0".
 - PI Specific parameters:** Fields for "Estimate(t1)" (06 / 01 / 1900), "Bin Size" (0.3 resolution), and "Time Steps" (30).
 - PLOT PI OUTPUT:** A button at the bottom of the sidebar.
- Central Map Area:**
 - Pattern_Informatics Data:** A map showing seismic records as blue dots over a geographical area. The map is bounded by coordinates: Longitude from -130.5 to -107.92 and Latitude from 27.01 to 48. A scale bar at the bottom indicates distances from 0-km to 2,287 km.
 - COORDINATES (according to SRS):** LON: -117.74, LAT: 46.26.
 - Map Controls:** Includes zoom in/out buttons, a pan tool, and a scale bar set to 0 m.
- Bottom Section:**
 - Map Movie:** A section with a "How to run" link.
 - Movie created based on the data from:** 01/01/1900 to : 12/31/2005.
 - Select Time Periods:** A dropdown menu set to "per year" and a "Create Movie" button.

Data Size: 61,269KB data in GML

Time to get Data: 59 minutes

Bbox: -179.6, -55.97, -21.94, 80.45

Layers: NASA OnEarth and World Seismic Records

Select Layers for **Pattern_Informatics**

- Nasa:Satellite
- Google:Map
- Google:Satellite
- California.States
- World:Seismic

Update MAP

Set bbox (minx,miny,maxx,maxy): **Go**

Select Area of Interest: **Zoom to ...**

Resize Map :

Customized Dim : x

Time Interval for Seismic Data
(Month / Day / Year)

From (t1) / /

To (t2) / /

Min Magnitude

PI Specific parameters :
(Not effect the current MAP)

Estimate(t1) : / /

Bin Size : (resolution)

Time Steps :

PLOT PI OUTPUT

Pattern_Informatics Data

-179.6 -140.19 -100.77 -61.36 -21.94

80.45 80.45

46.35 46.35

12.24 12.24

-21.86 -21.86

-55.97 -55.97

0-km 3,197.19-km 6,394.38-km 9,591.57-km 12,78

COORDINATES (according to SRS) LON : **-103.53** LAT : **50.44**

Map Movie [How to run](#)

Movie created based on the data from : 01/01/1900 to : 12/31/2005

Select Time Periods : **Create Movie**

Data Size: 81,247KB data in GML

Time to get Data: 1 hour and 18 minutes

Bbox: -180, -90, 46.67, 90

Layers: NASA OnEarth and World Seismic Records

http://localhost:8083/aaa/maptools/newmap.jsp

Select Layers for **Pattern_Informatics**

- Nasa:Satellite
- Google:Map
- Google:Satellite
- California:States
- World:Seismic

Set bbox (minx,miny,maxx,maxy):

(, , ,)

Select Area of Interest:

Resize Map :

Customized Dim : x

Time Interval for Seismic Data
(Month / Day / Year)

From (t1) : / /

To (t2) : / /

Min Magnitude :

PI Specific parameters :
(Not effect the current MAP)

Estimate(t1) : / /

Bin Size : (resolution)

Time Steps :

Pattern_Informatics Data

-180 -123.33 -66.66 -10 46.67

90 45 0 -45 -90

0-km 3,542.18-km 7,084.36-km 10,626.54-km 14,16

COORDINATES (according to SRS) LON : LAT :

[How to run](#)

Movie created based on the data from : 01/01/1900 to : 12/31/2005

Select Time Periods :

Data Size: 127,469KB data in GML (whole data in DB)

Time to get Data: 2 hours and 3 minutes

Bbox: -180, -90, 46.67, 90

Layers: NASA OnEarth and World Seismic Records

The screenshot shows a web browser window at `http://localhost:8083/aaa/maptools/newmap.jsp`. The main content area displays a world map titled "Pattern Informatics Data" with a coordinate range from -180 to 160.01 longitude and -90 to 90 latitude. The map shows a blue background with green and yellow landmasses and numerous small blue dots representing seismic data points. Below the map, the coordinates are listed as LON: 159.16 and LAT: -20.25. The interface includes several control panels on the left and bottom:

- Select Layers for:** A dropdown menu set to "Pattern_Informatics" with a list of layers: Nasa:Satellite, Google:Map, Google:Satellite, California:States, and World:Seismic. An "Update MAP" button is below.
- Set bbox (minx,miny,maxx,maxy):** A "Go" button and input fields for coordinates.
- Resize Map:** A dropdown menu set to "400x400" and a "Customized Dim" input field.
- Time Interval for Seismic Data:** A section with a yellow highlight around the date pickers. It shows "From (t1)" as 01 / 01 / 1900 and "To (t2)" as 12 / 31 / 2005. A "Min Magnitude" input field is set to 0.
- PI Specific parameters:** A section with "Estimate(t1)" as 06 / 01 / 1990, "Bin Size" as 0.3 (resolution), and "Time Steps" as 30.
- Map Movie:** A section with a "How to run" link, a "Movie created based on the data from : 01/01/1900 to : 12/31/2005" message, a "Select Time Periods:" dropdown set to "per year", and a "Create Movie" button.
- PLOT PI OUTPUT:** A button at the bottom left.