

Baird

software

Spatial Data Analyzer

Dynamic GIS Software

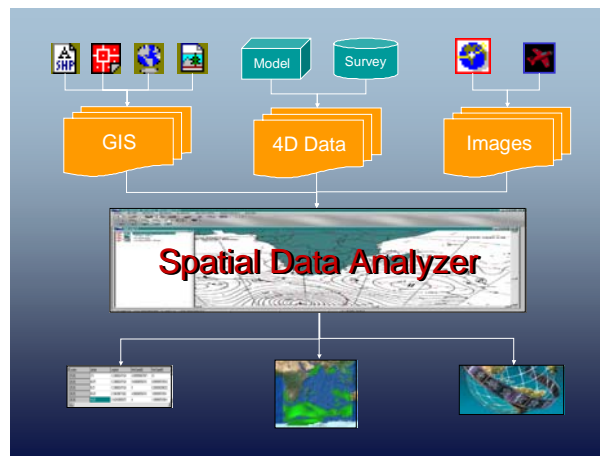
SDA is a stand-alone GIS-based application used to interpret dynamic and spatial data over GIS maps. Almost all common GIS data such as geo-registered images, ESRI Shape files and DEM's can be loaded into SDA.

Main features

- 2D viewing window
- 2D data layering
- Analytical tools including charts
- Data editing
- Labeling and other annotation
- Animated movie recording

Handles both temporal and spatial data

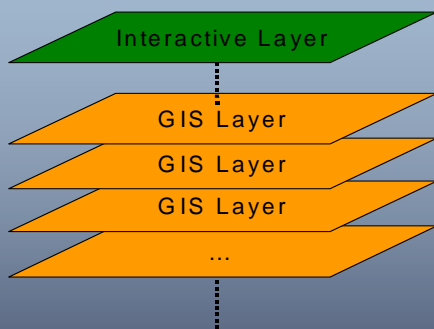
- Any numerical model data (1D, 2D, 3D)
- Dynamic object data (e.g. particle/object tracking)
- Real-time observation data



Extends standard GIS functionality

- Intuitive Graphical User Interface
- Dynamic layer - display temporal data
- GIS layer - show spatial base data
- Color mapping with raster or mesh data
- Vector data, such as flow-vectors
- Weather barbs

Traditional GIS

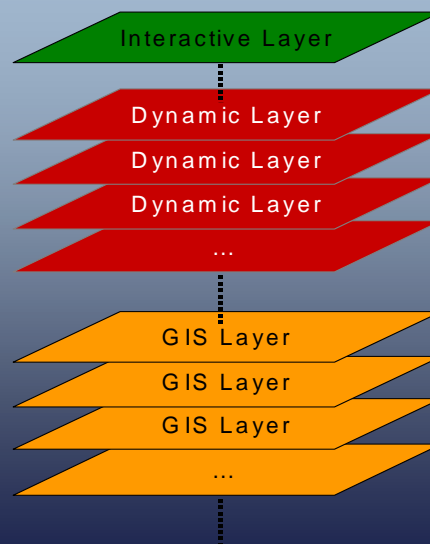


GIS Layer: display static GIS maps such as Shapefiles and Images.

Dynamic Layer: display time series mapping from numerical modeling and series observation.

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Temporal Tools



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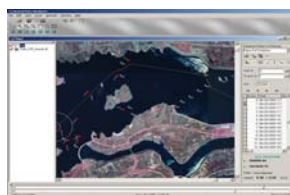
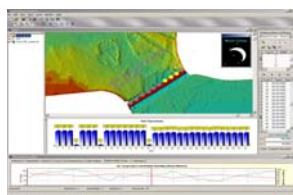
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One of the most unique features of SDA is that it has the ability to combine several complex dynamic datasets and synchronize them both spatially and temporally.

The program can handle data files with different time intervals as well as missing data, which makes it an extremely useful tool for analyzing various types of datasets (i.e. measured, modeled, tracking data from tagged marine species) in the same time domain.

Data navigation and editing

- Main timing track bar: controls time frame of numerical model
- Survey time track bar: independent time control for other temporal data
- Convenient table editor
- Highlight selected data
- Unlimited undo levels



Data analysis tools

- Interactive data selection using point, circle, rectangle and polygon
- One step numerical operation to change data
- Wide selection of plots

Creating animations and images

- Multiple raster image types (ppm, bmp, tiff, jpeg)
- Various digital movie formats (AVI, MPEG, Flic)
- Simultaneous animation of all dynamic layers
- Automatic date/time label

