

HDF Explorer

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Topics

- What is HDF Explorer?
- HDF Explorer features
- HDF Explorer community
- Demo



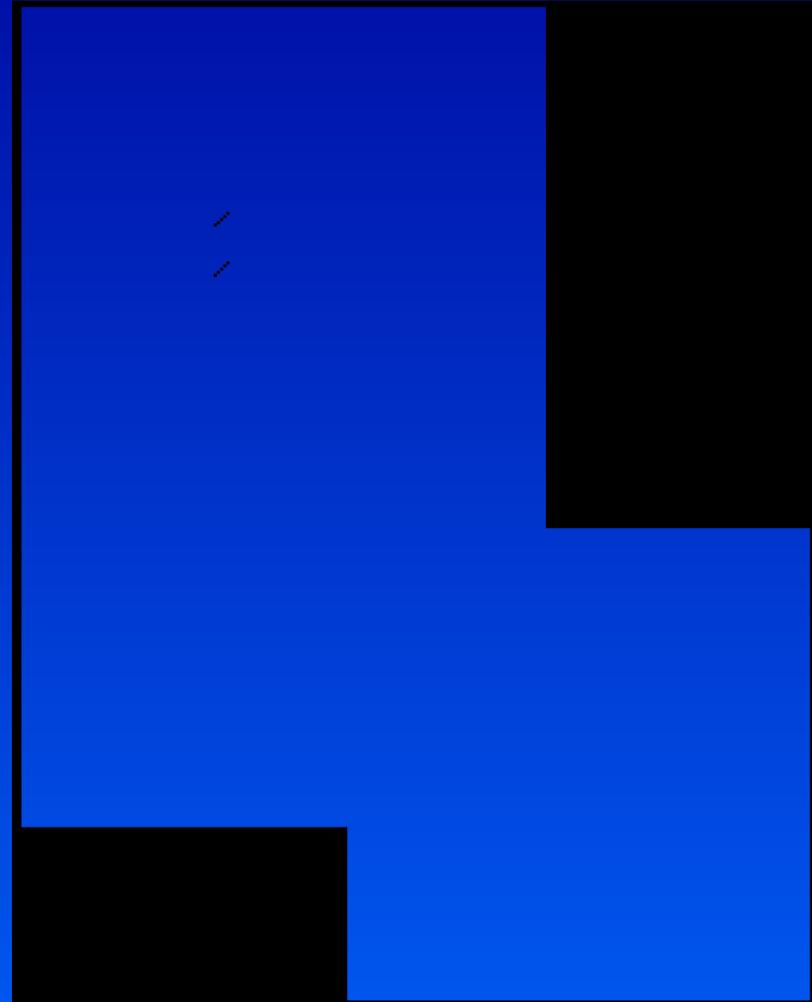
What is HDF Explorer?

- **Data visualization program that reads the HDF and HDF5 file formats from NCSA**
- **Supported in the Microsoft Windows operating systems.**



HDF Explorer features

- Data is first viewed in a tree-like interface that reproduces the HDF hierarchical structure



HDF Explorer features

- Data is then optionally loaded and visualized in a variety of ways

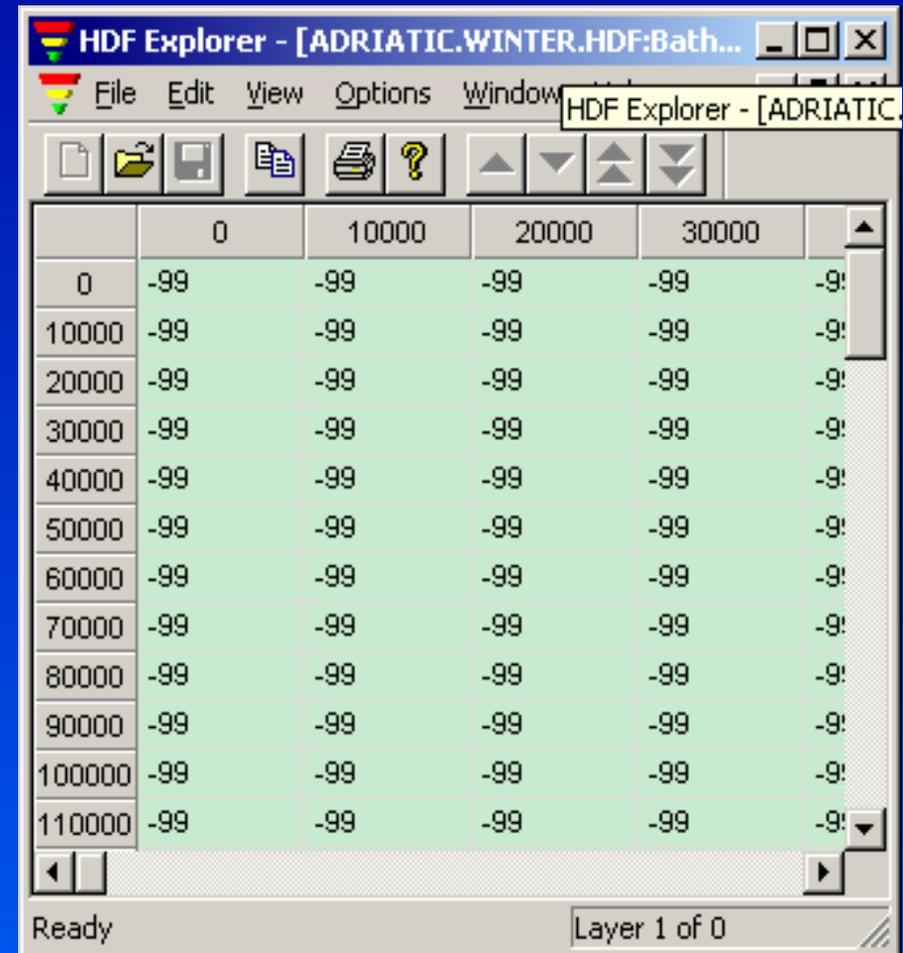
The screenshot displays the HDF Explorer application window. The main window has a menu bar (File, Edit, View, Options, Window, Help) and a toolbar with icons for file operations and navigation. Below the toolbar, there are two data windows. The top window, titled 'SDS_MODB.h5:MODB Arr...', shows a table of data with columns 82, 83, and 84. The bottom window, also titled 'SDS_MODB.h5:MODB Arr...', shows a 2D visualization of the data with a color scale from blue to red. A 'Data viewer' window is overlaid on the bottom window, showing a tree view of the data structure: 'SDS_MODB.h5' containing 'MODB Array'.

	82	83	84
26	37.971	37.964	37.958
27	37.937	37.932	37.93



HDF Explorer features

- Numerical data can be visualized in a grid interface, ordered by rows and columns.



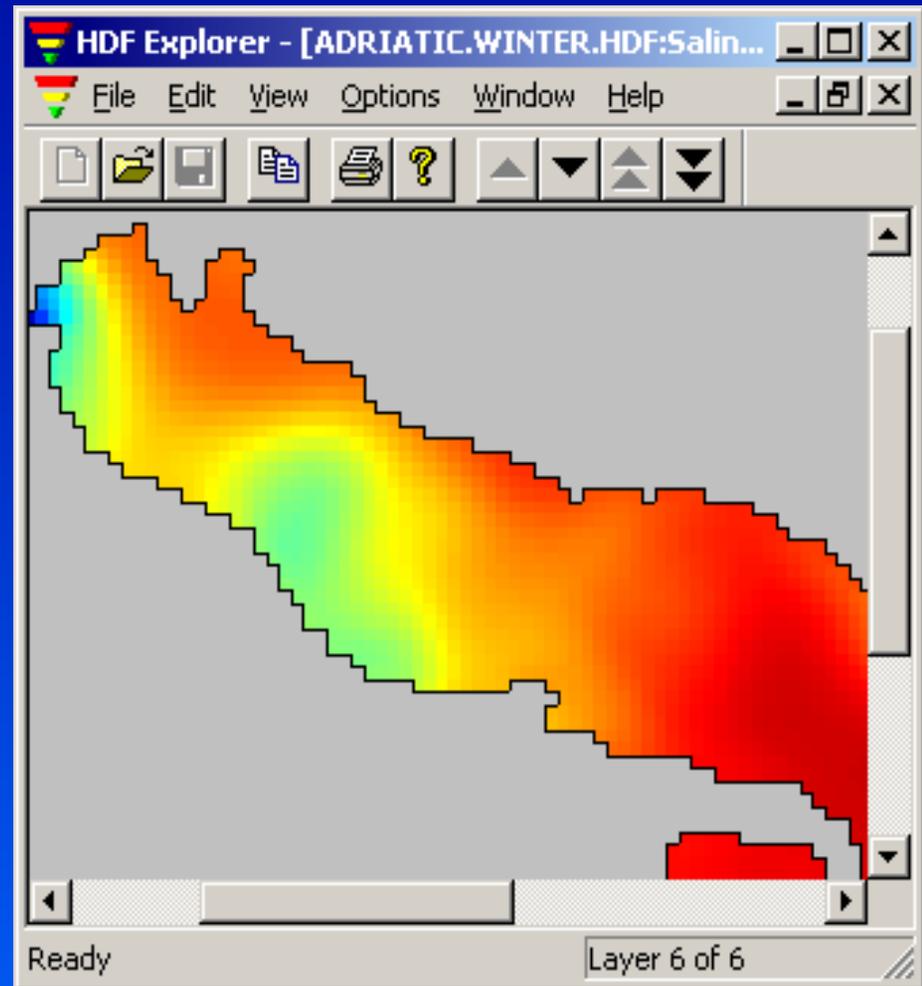
The screenshot shows the HDF Explorer application window. The title bar reads "HDF Explorer - [ADRIATIC.WINTER.HDF:Bath...". The menu bar includes "File", "Edit", "View", "Options", and "Window". Below the menu bar is a toolbar with icons for file operations and navigation. The main area displays a grid of numerical data. The columns are labeled "0", "10000", "20000", and "30000". The rows are labeled from "0" to "110000" in increments of 10000. All data cells contain the value "-99". The status bar at the bottom indicates "Ready" and "Layer 1 of 0".

	0	10000	20000	30000	
0	-99	-99	-99	-99	-9!
10000	-99	-99	-99	-99	-9!
20000	-99	-99	-99	-99	-9!
30000	-99	-99	-99	-99	-9!
40000	-99	-99	-99	-99	-9!
50000	-99	-99	-99	-99	-9!
60000	-99	-99	-99	-99	-9!
70000	-99	-99	-99	-99	-9!
80000	-99	-99	-99	-99	-9!
90000	-99	-99	-99	-99	-9!
100000	-99	-99	-99	-99	-9!
110000	-99	-99	-99	-99	-9!



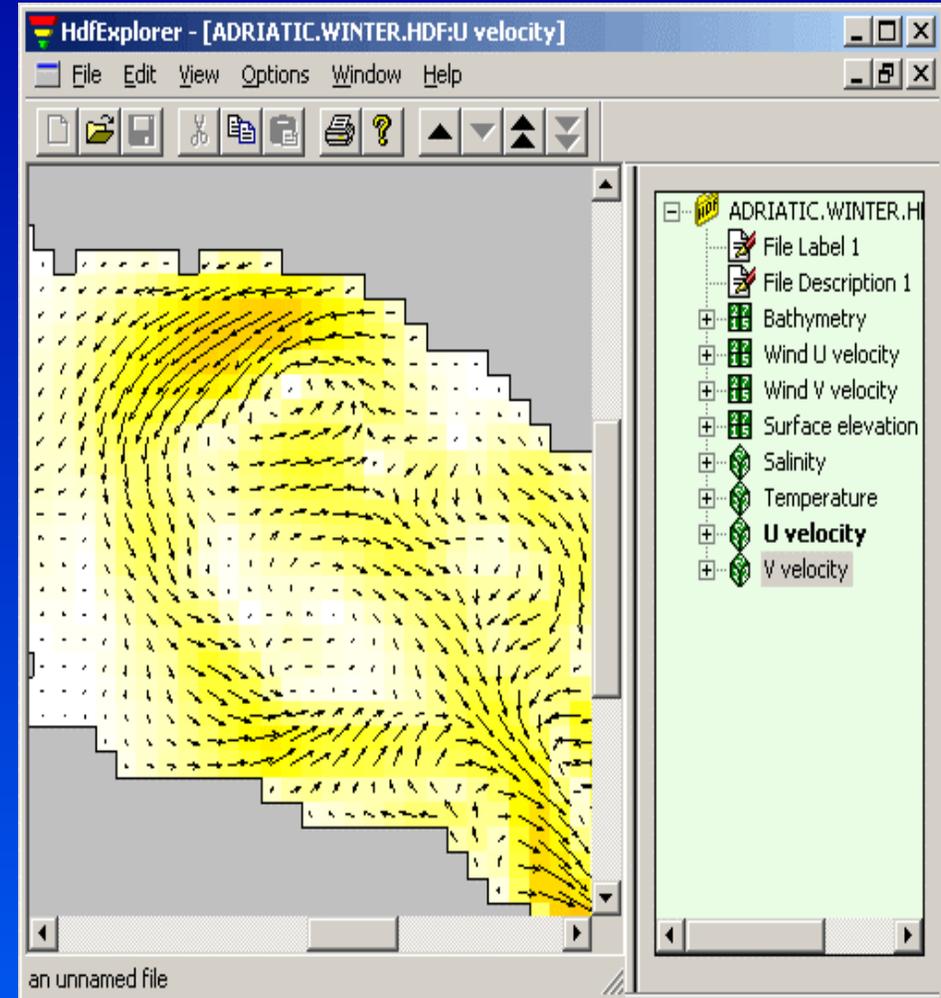
HDF Explorer features

- Data can be transformed into pixel colors, providing better insight



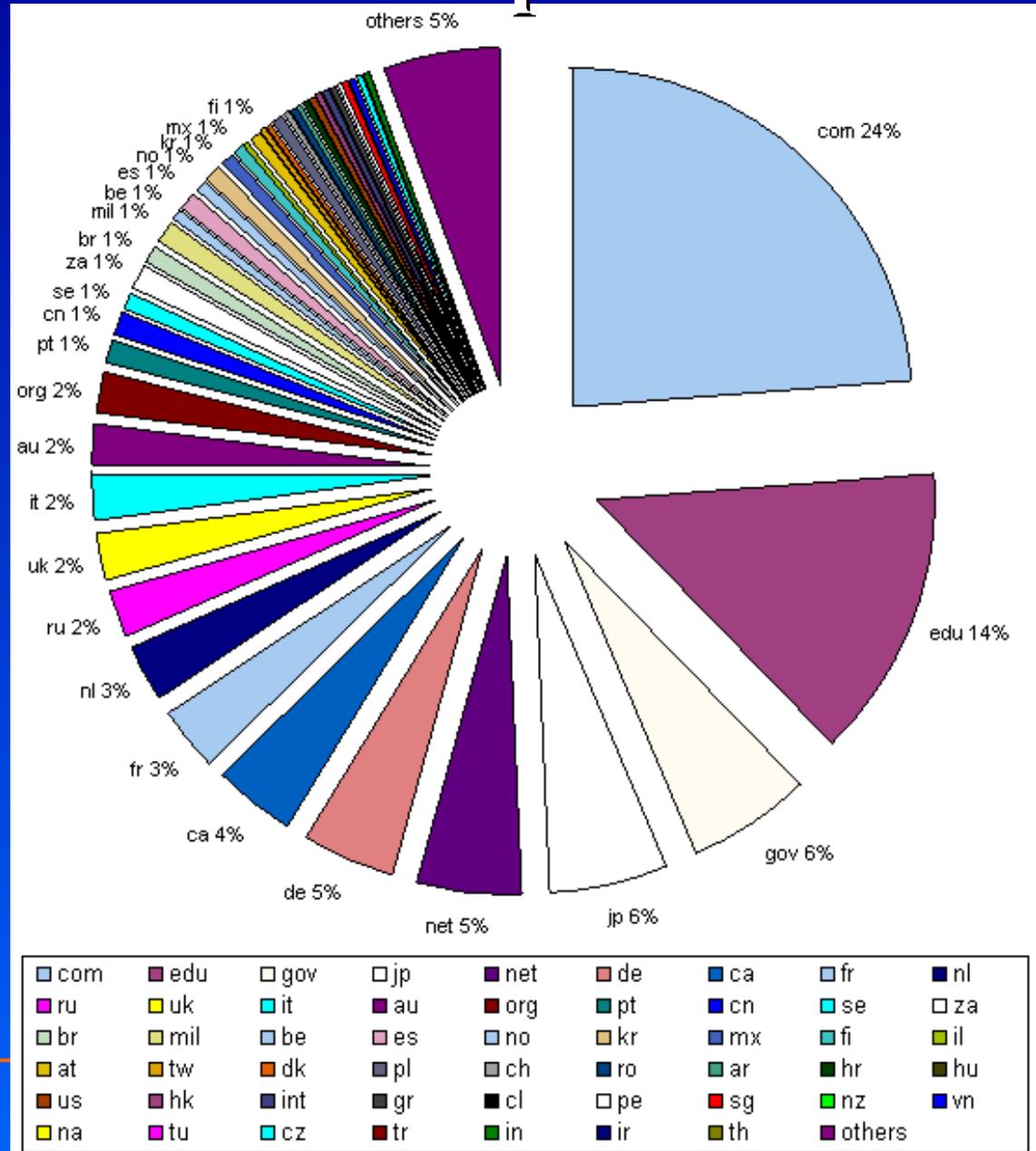
HDF Explorer features

- HDF Explorer permits the generation of vector data, obtained through the conjunction of two scalar datasets. Typical usage include the generation of velocity fields.



The growth of HDF Explorer

- Users in 54 countries (about 4000 users in Dec 2002)
- Users include
 - Government agencies
 - National labs
 - Companies
 - Universities



Thank you!



- HDF Explorer website

– <http://www.space-research.pt/>



- Contact

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Demo

- Version installed on every PC
- Shortcut in desktop
- Serial number = DEMO
- Open files in
- "C:\Program Files\Space Research\HDF Explorer\Examples"
- Open the file ADRIATIC.WINTER.HDF

