## Visualizing the Environment

The NOAA Environmental Visualization Laboratory

Processing NOAA data and imagery into effective media, communications, and education products

## www.nnvl.noaa.gov

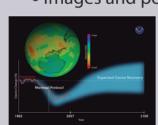


- Direct requests from the media or museum
- Requests from NOAA and its line offices
- Educational priorities, such as International Year of the Reef or International Polar Year.
- Independent development based on identified needs

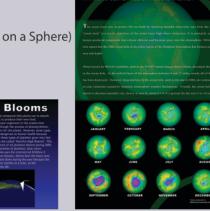
With the request comes an identification of the display format, such as:

OZONE HOLE

- Television
- Spherical Displays (e.g., Science on a Sphere)
- Interactive kiosks
- Images and posters

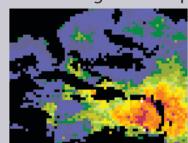


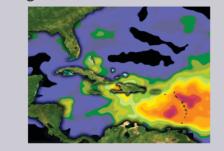




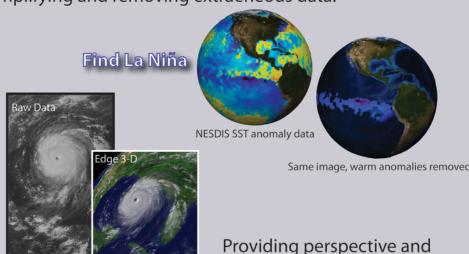
In most cases, visualizations are used to explain a concept to the general public. As a result, the best looking data, that which captures attention, is desired. We enhance and simplify data to meet this goal. Enahancement is achieved by:

Pixel smoothing and interpolating:



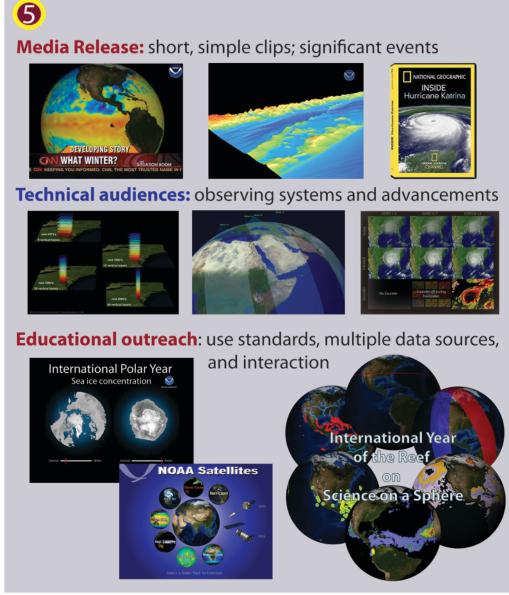


Simplifying and removing extraeneous data:

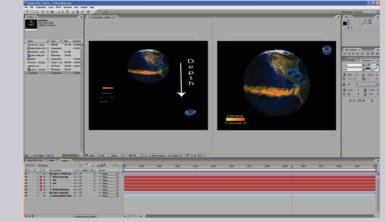




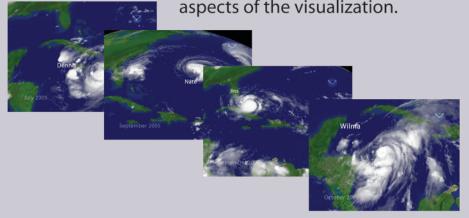




4 Using Adobe AfterEffects, we're able to assemble multiple 3-D layers into a single piece, incorporate annotation and explanations, figures, and animate the final product.



Moving, zooming, rotating, and labeling keep the viewer engaged, while also directing attention to the important







realism to the scene