

*Color Figures*

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*Mathew A. Dooley and Stephen J. Lavin*

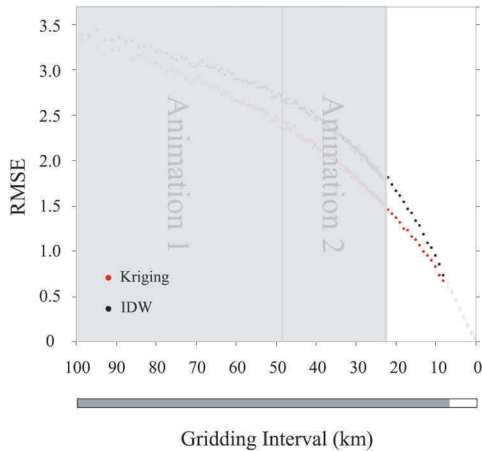
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*Jason T. Knowles and Michael Leitner*

# Visualizing Method-Produced Uncertainty in Isometric Mapping

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## Animation 3 (frames 155-176)

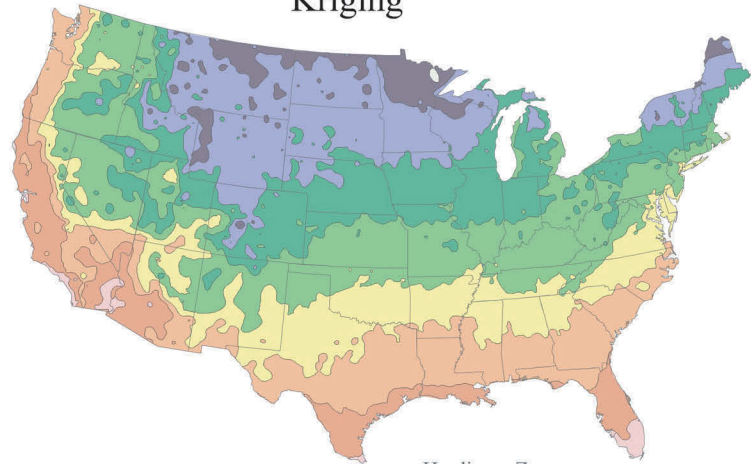
### RMSE by gridding interval



Gridding Interval (km):	Number of Lines (x-direction):	Kriging RMSE:	IDW RMSE:
9.000	516	0.733	0.729



### Kriging



### Inverse Distance Weighting

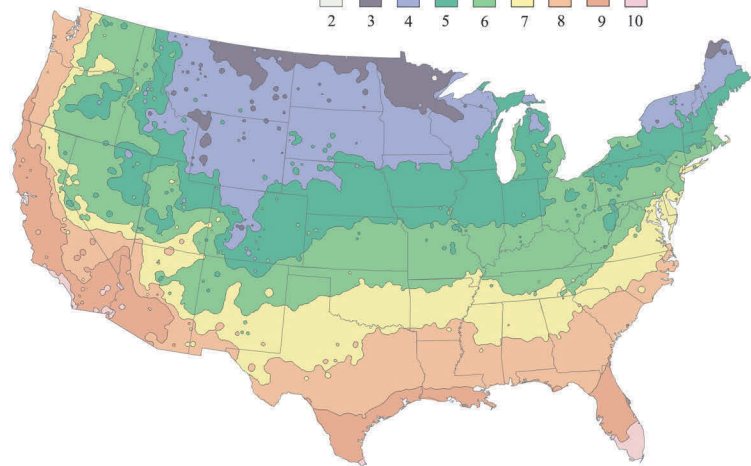


Figure 8. Screen capture of frame 169 of Animation 3 showing the difference in patterning for kriging and IDW when RMSE values are nearly identical.

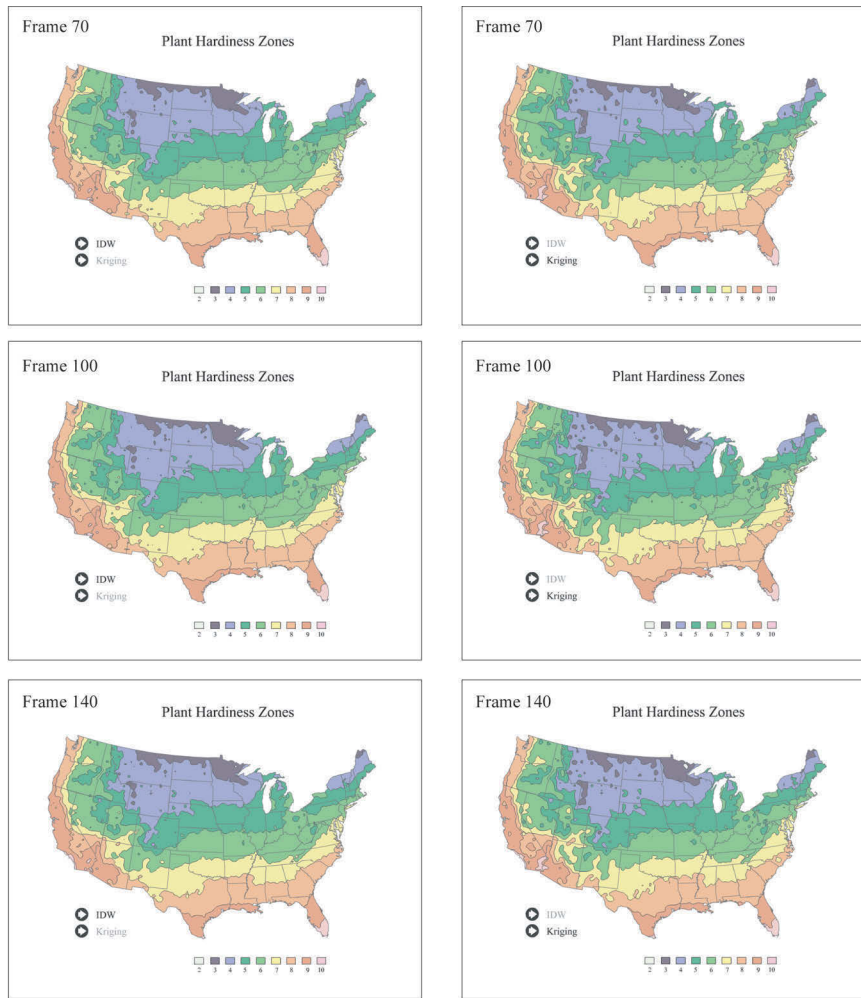


Figure 9. Selected frames from Animation 4. Frames on the left are IDW; frames on the right are kriging.

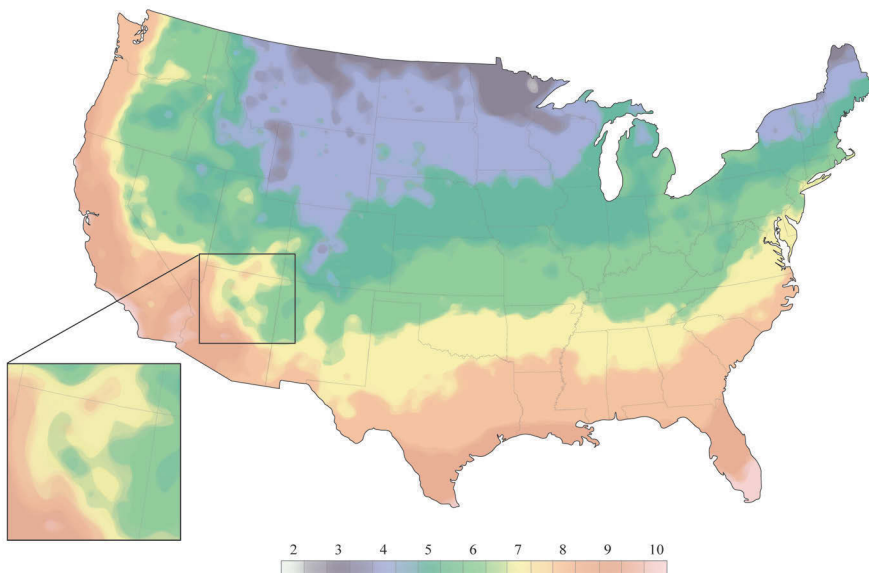


Figure 10. Composite map of 354 isometric representations of plant hardiness zones using kriging and IDW interpolation methods.

# Visual Representations of the Spatial Relationship Between Bermuda High Strengths and Hurricane Tracks

*Jason T. Knowles and Michael Leitner*

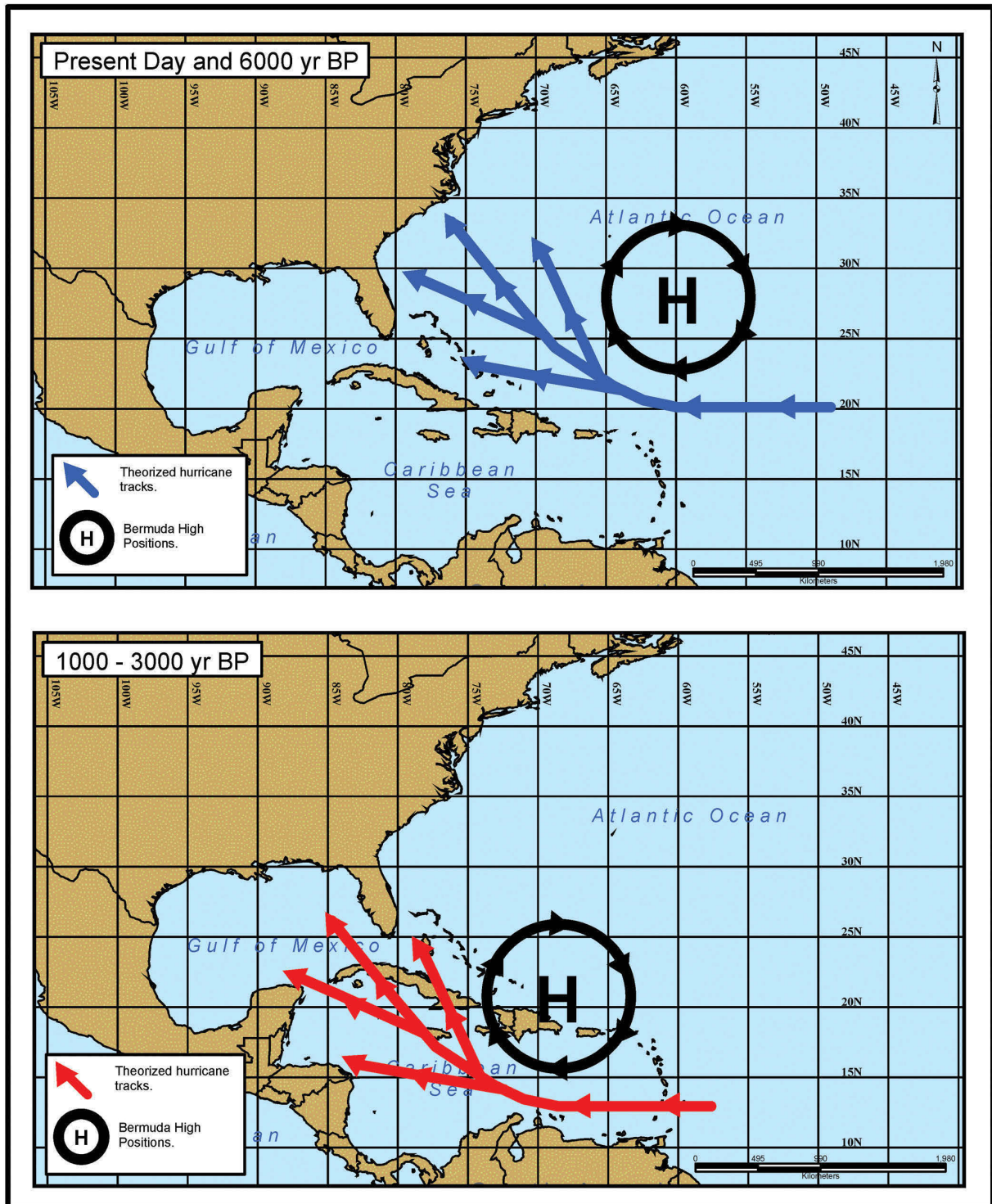


Figure 2. Relationship between the Bermuda High and hurricane tracks as expressed in the Bermuda High Hypothesis.



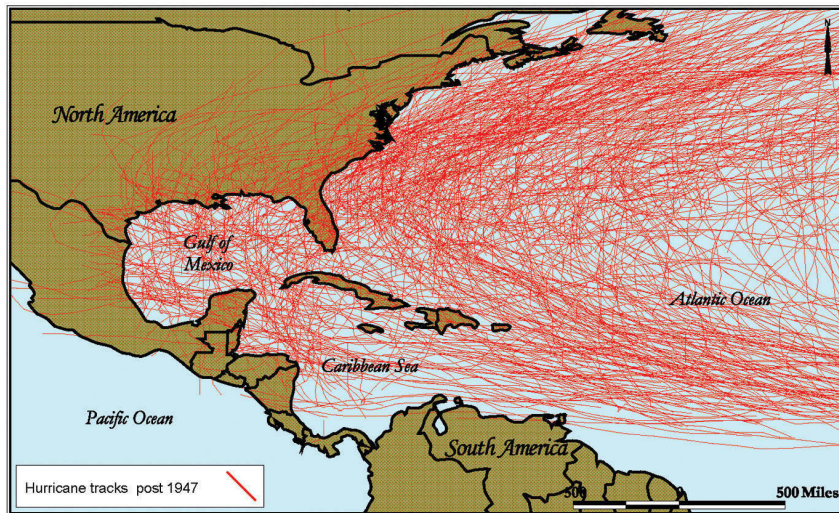


Figure 3. Visualization of all 577 hurricanes that have reached the Atlantic Ocean and the Gulf of Mexico since 1947.

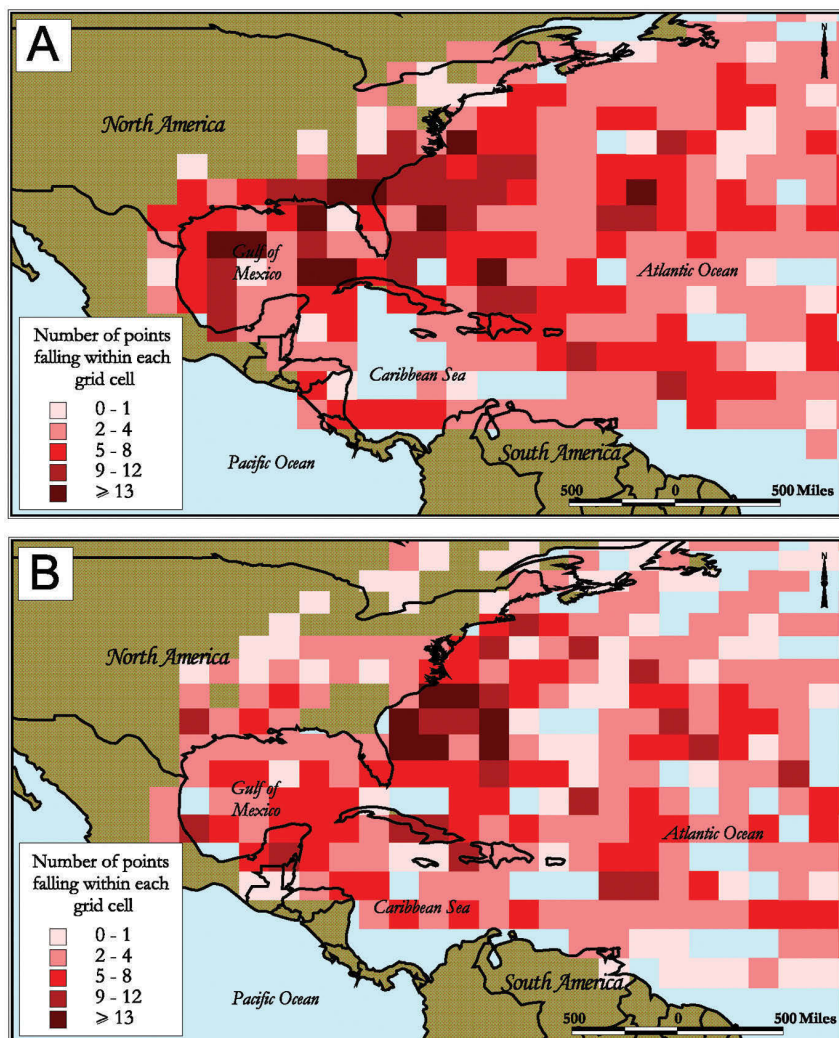


Figure 4. Choropleth mapping of hurricane density within a 2.5° latitude/longitude grid cell size based on a "weak" Bermuda High (4A) and a "strong" Bermuda High (4B).

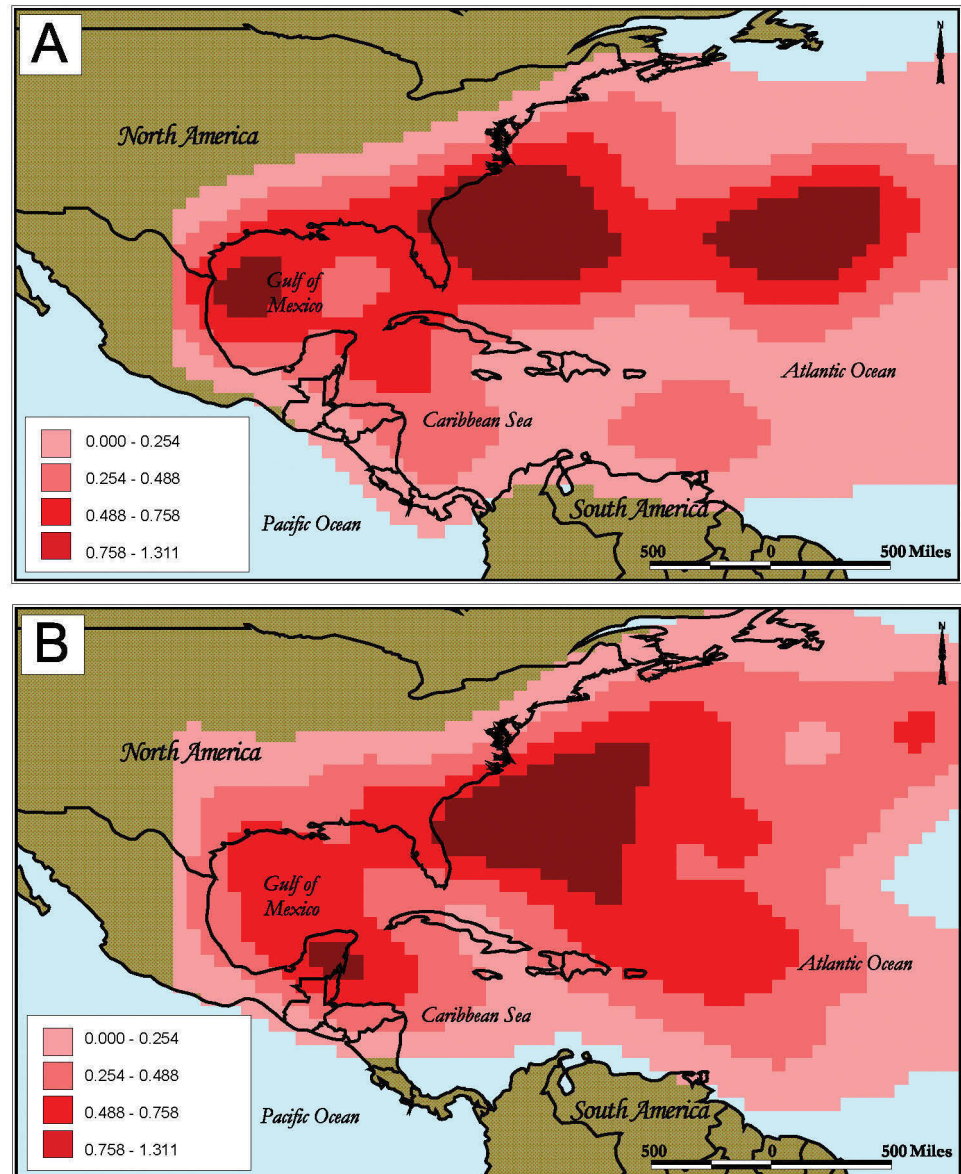


Figure 6. 2-D continuous surface display of hurricane tracks derived from kernel density estimations coinciding with a "weak" Bermuda High (6A) and a "strong" Bermuda High (6B).

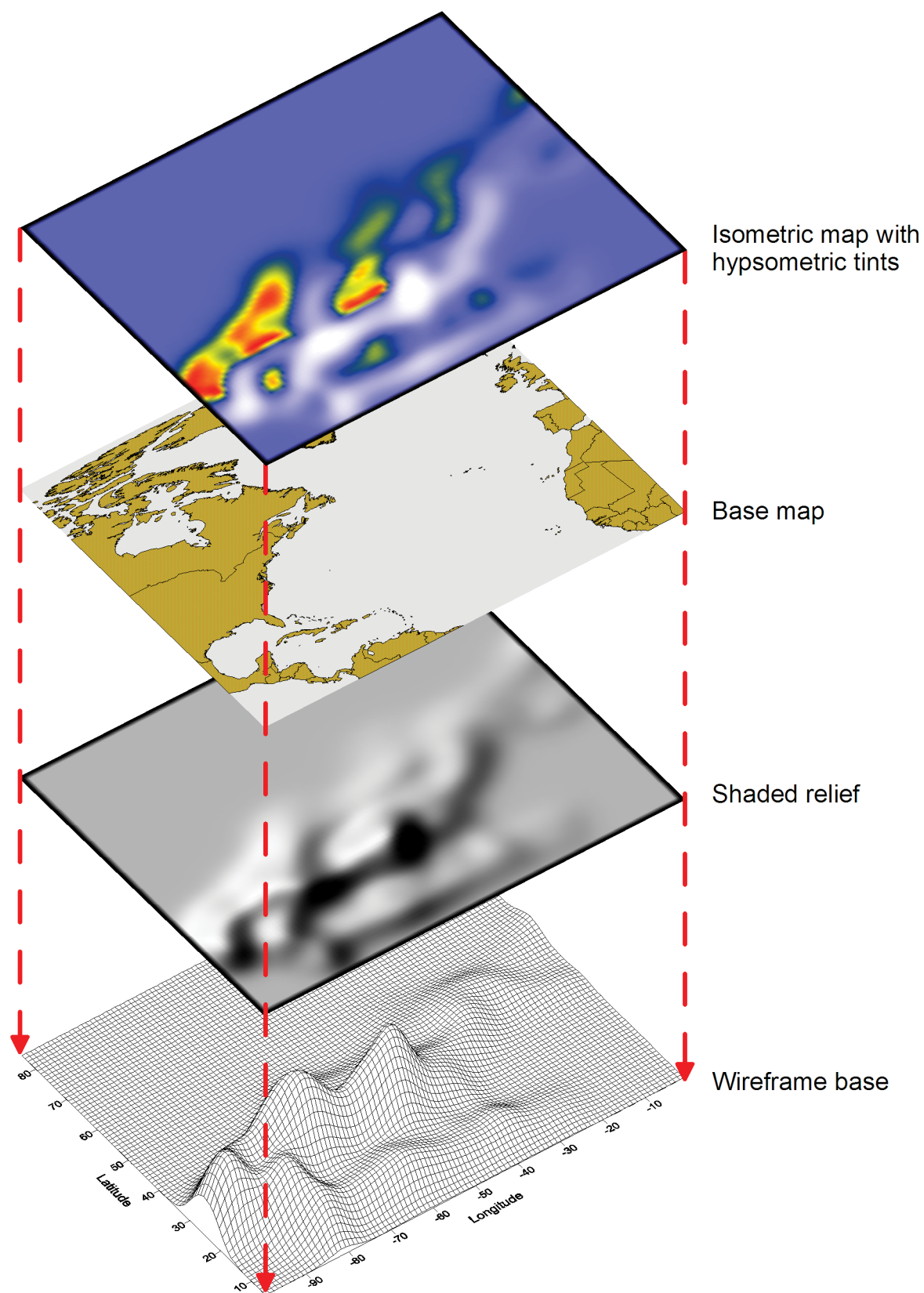


Figure 7. Schematic view of the components of the enhanced 3-D continuous surface display.



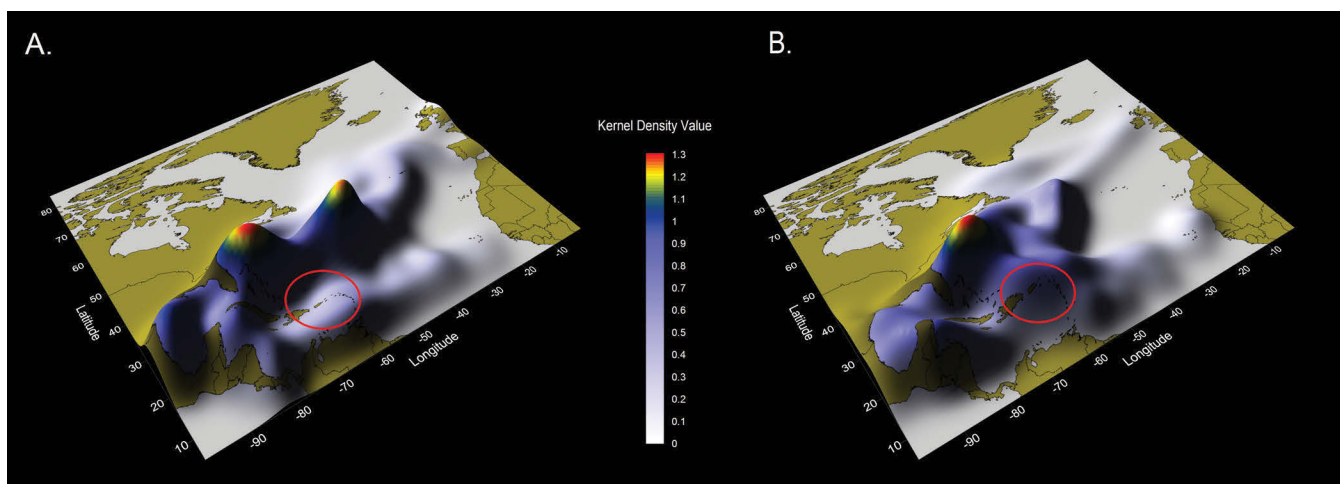


Figure 8. Enhanced 3-D continuous surface display of hurricane tracks derived from kernel density estimations coinciding with a "weak" Bermuda High (8A) and a "strong" Bermuda High (8B). Note: Red circles encompass the Caribbean Antilles and highlight changing risk associated with Bermuda High strength.