

# EXPLORING STORM SURGE

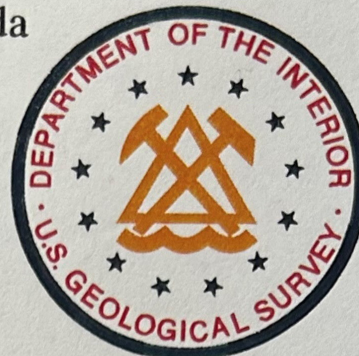


U.S. Geological Survey  
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Tampa, Florida  
1995

by A.B. Tihansky and A.D. Duerr



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This video provides a thorough discussion of storm surge, one of the most dangerous elements of hurricanes and major storms. This video illustrates basic storm surge principles, shows actual footage of storm surge damage and relates high-water level data collection by the U.S. Geological Survey to the task of recreating the storm surge event.

### REFERENCES:

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- Murray, Mitch, 1994, Storm-tide elevations produced by Hurricane Andrew along the southern Florida coasts, August 24, 1992: U.S. Geological Survey OFR 94-116, 27 p.
- Neumann, C.J., Cry, G.W., Caso, E.L., and Jarvinen, B.R., 1981, Tropical cyclones of the North Atlantic Ocean 1871-1980: NOAA, 174 p.
- NOAA, 1991, Storm surge and hurricane safety: U.S. Dept. of Commerce, NOAA/PA 78019, U.S. Govt. Printing Office 1991-293-054: QL 3, 8 p.
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### *Original music performed by:*

**Lloyd Goldstein, bass; Daphne Soellner, flute;  
Bobby DeVito, guitar; Gene Shinn, percussion  
Recorded and mixed by Bill Dudley**

**Produced by the U.S. Geological Survey  
through the facilities of:  
WTSP-TV, St. Petersburg, Florida**

**COLOR**

**14 minutes**

**VHS**



## **U.S. GEOLOGICAL SURVEY**

**The enclosed video is an educational product illustrating storm surge, one of the most dangerous elements of hurricanes and major storms.**

**The video describes the basic components of storm tide, shows actual storm surge damage, and demonstrates how high-water marks are used to recreate the storm surge event.**

**This video can be used to complement classroom activities and enhance scientific understanding of nature's power.**

**For more information about this publication, contact:**  
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For additional information, visit  
<https://www.usgs.gov/centers/car-fl-water>