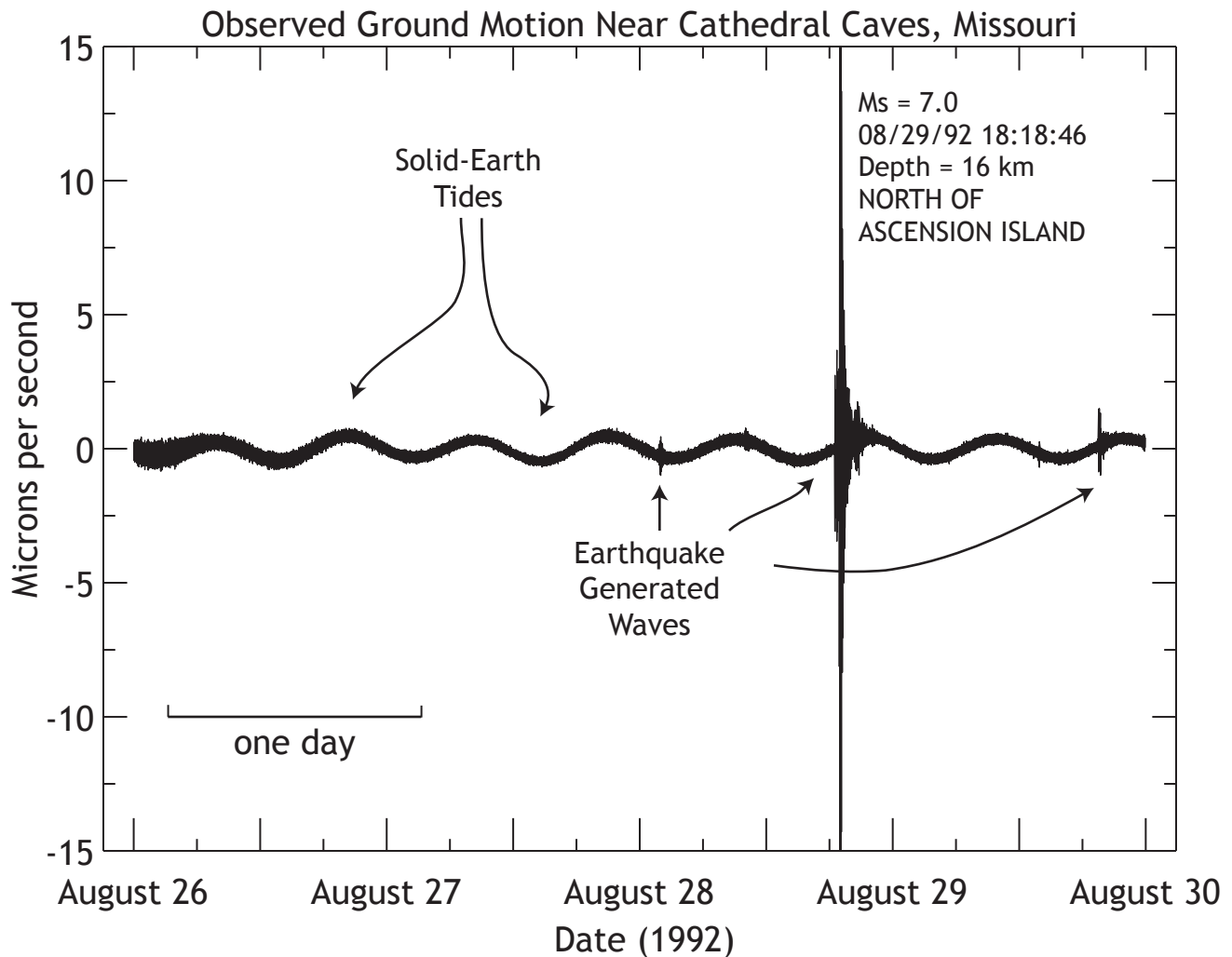


The Movement of the Ground



The Earth constantly vibrates as a result of the tidal forces between the Sun, Moon, and Earth, as well as atmospheric and ocean interaction with the ground. The above seismogram shows the velocity of the ground in central Missouri, U.S. resulting from atmospheric, tidal, and several earthquake, the largest vibrations were generated by a magnitude 7.0 earthquake near the Mid-Atlantic Ridge, off the west coast of Africa.

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Ground Velocity Measured in Central Missouri

The filtered seismogram shown above shows the motion of the ground during four days in late summer 1992. One micron is equal to 0.000001 meters, which is about one four-hundredth of the thickness of this sheet of paper.

For more information, visit
http://www.eas.slu.edu/Earthquake_Center

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