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COVER Old Faithful erupting on a winter day. Seismic recordings made during the January 1965 expedition to Yellowstone Park can be correlated with geyser activity. Intervals between eruptions do not scatter around a single value, as formerly thought. A bimodal distribution in frequency of intervals occurs. Histogram measurements show the intervals to be about 50 minutes and 70 minutes. See page 494. [John S. Rinehart, U.S. Department of Commerce]