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A scanning tunneling microscope image of a platinum-carbon replica of the ripple phase of dimyristoylphosphatidylcholine bilayers in water. The replicated surface can be best seen by turning the image 90° counterclockwise. Large ripples are spaced approximately 12 nanometers apart and are about 4.5 nanometers in amplitude. The image was taken by using a NanoScope II digital STM at 1 nanometers and 20 millivolts bias. See page 1013. [J. Zasadzinski et al., University of California, Santa Barbara, CA 93106]