



An illustration of why the second trip image is compressed in azimuth. The geometrically-correct second trip echo pattern is identified as echo 1. The second trip image of 1 is shown as echo 2. Since 1 is at much longer range, the radar has to effectively move only a small distance azimuthally to scan its width. When this same azimuth sector is projected at the short range where the second trip echo appears, its geometric echo pattern is compressed in the azimuthal direction. The along beam dimension is unchanged between the two echoes.