Double Crystal X-Ray Topography: 
$10^{12}$ cm$^{-2}$ Si Ion Implant After Anneal

Ion implanted region:

Before Anneal  
![Image of dislocation before anneal]

After Anneal  
![Image of dislocation after anneal]

Misfit dislocation nucleation from surface scratch in implanted region. Misfit dislocations nucleate and glide in implanted region!