



# Dramatic Changes over the South Polar Residual Cap

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The South Polar residual cap is composed of carbon dioxide ice that persists through each Martian summer. However, it is constantly changing shape. The slopes get more direct illumination at this polar location, so they warm up and sublime, going directly from a solid state to a gaseous state. The gas then re-condenses as frost over flat areas, building new layers as the older layers are destroyed. (NASA/JPL/University of Arizona: 245 km above the surface.)

