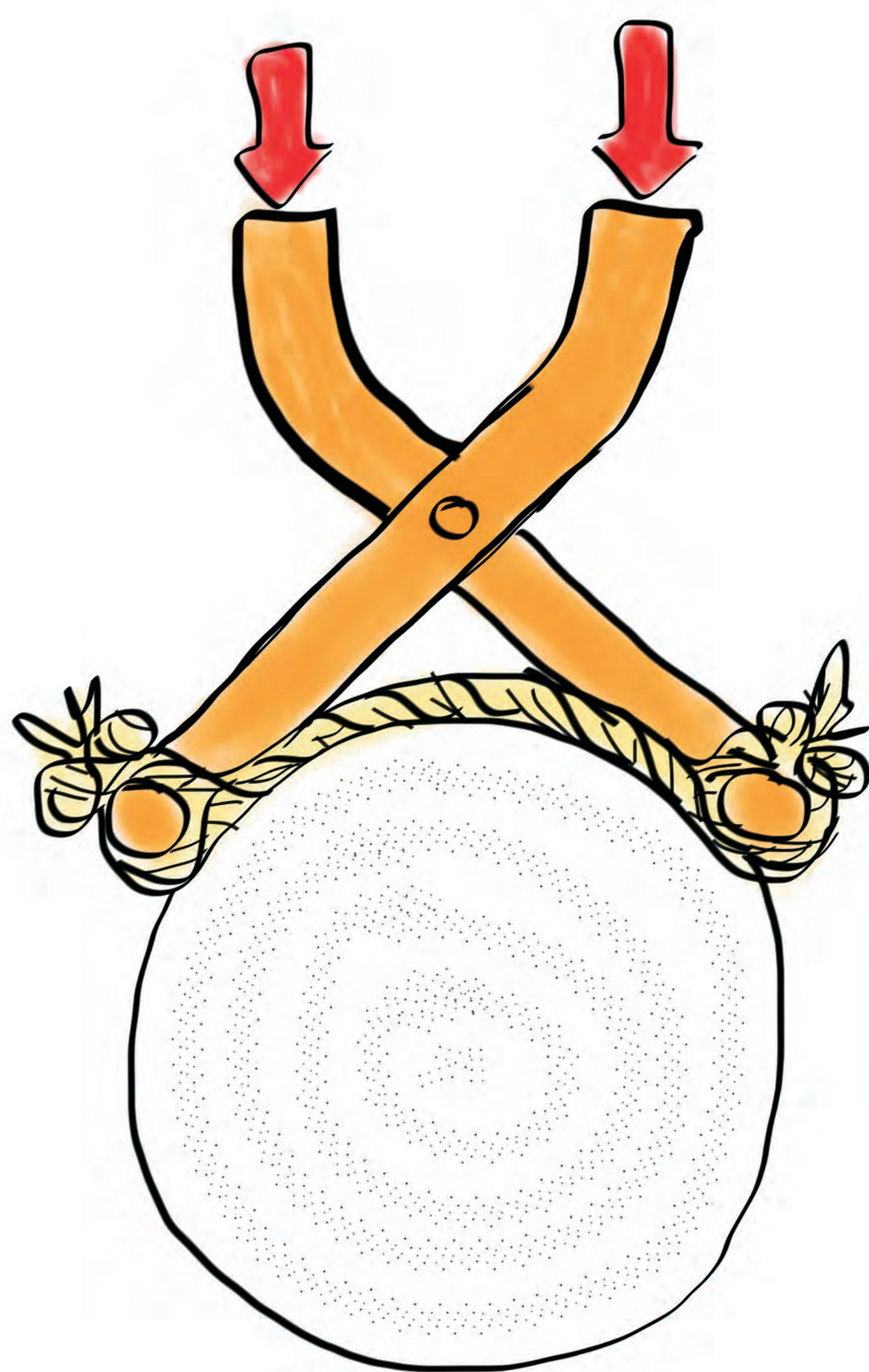
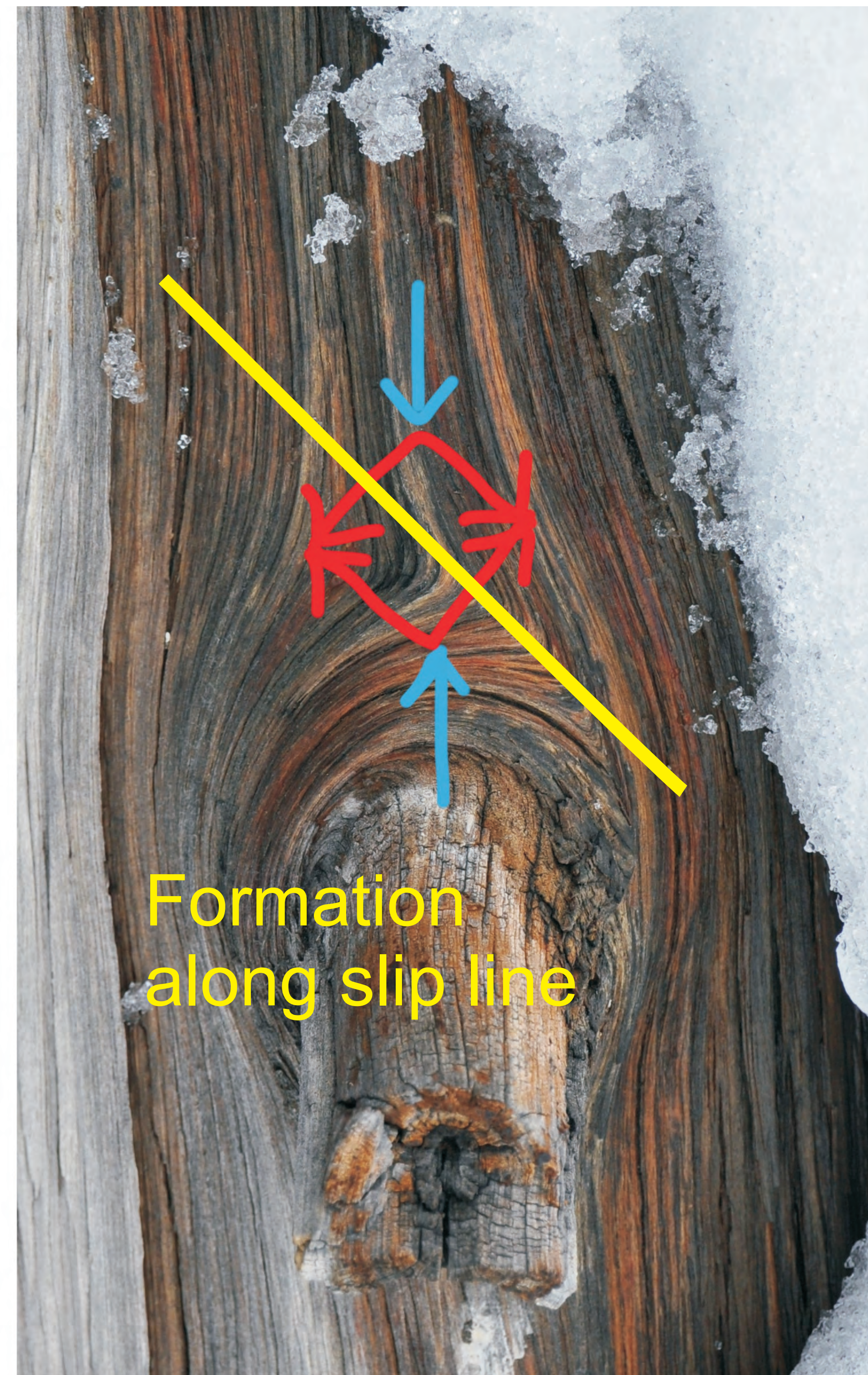
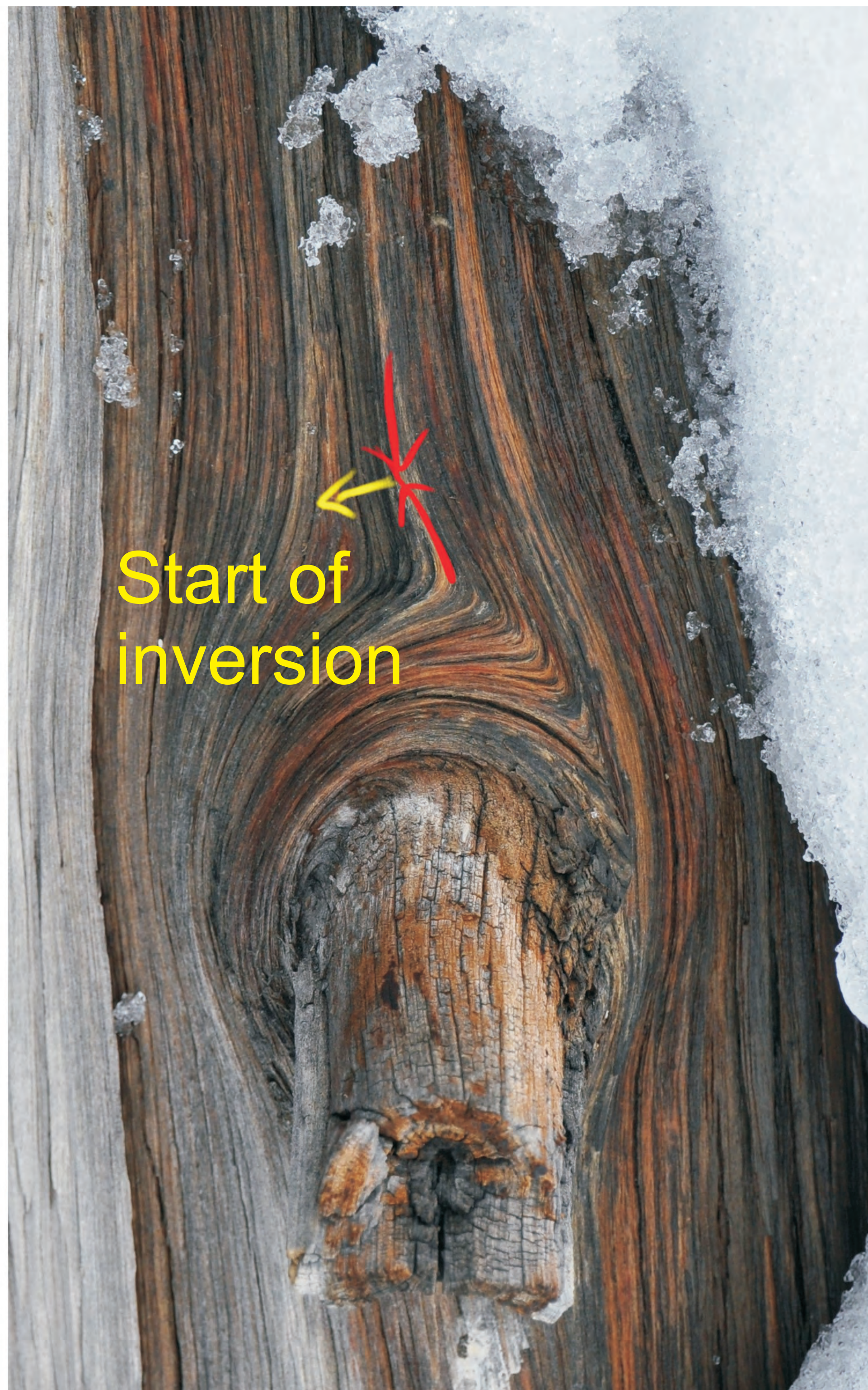
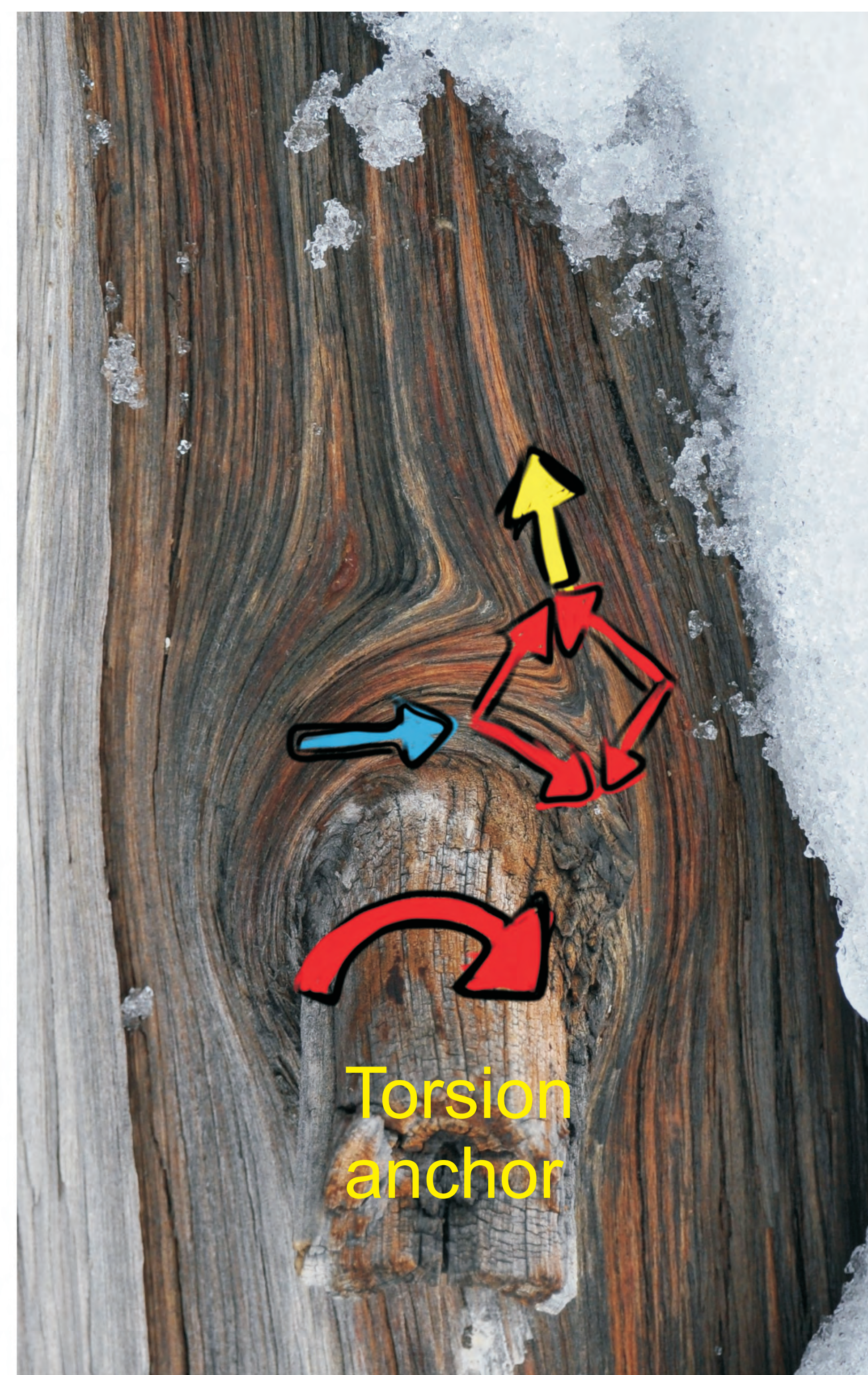


Functional Stem Slings above Branches

C. Mattheck, K. Bethge, K. Weber



Compression - tension conversion



Result: Lateral grain above branches reinforces the trunk against axial cracking, acts as a torsion anchor, but may lead to trunk failure under vertical tension.