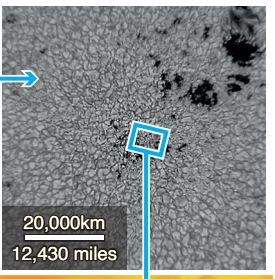
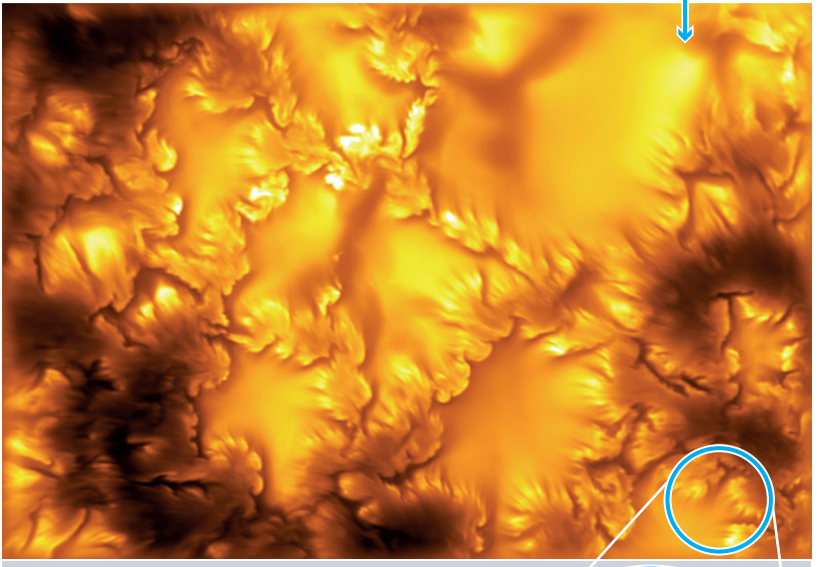
Telescope captures most detailed Sun images

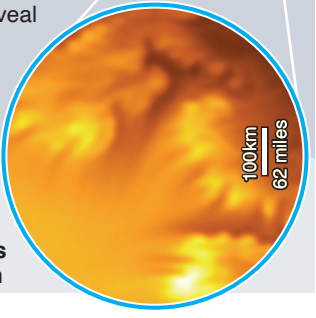
The Sun's turbulent surface has been revealed in unprecedented detail by the Inouye Solar Telescope in Hawaii, offering fresh insights into its magnetically active regions







■ **DISCOVERY:** New high-resolution images reveal tiny swirling patterns, like miniature whirlpools, providing first evidence of ***Kelvin-Helmholtz instability (KHI)*** – process where two layers of solar plasma slide past each other at different speeds, creating ripples



■ **Researchers believe KHI could help explain why Sun's outer atmosphere is so hot and how magnetic energy builds up and moves around Sun, powering solar flares that can send bursts of energy towards Earth**

Pictures: NSF/NSO/AURA/MPS , Ekrem Canli
Sources: Nature, National Solar Observatory

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