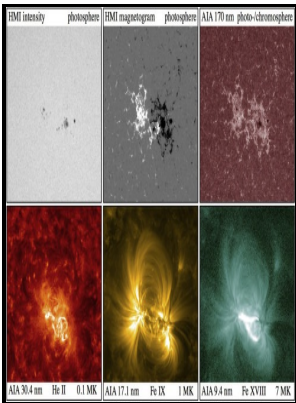


Granulation and oscillations of the solar atmosphere.

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Notes: Bibliography: p. 376.
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The Solar Granulation

The amplitude of motion of the convective material decreases from 0. Doppler shifts of up to 9 km s{sup -1} are observed at the edges of bright granules, demonstrating that the flows reach supersonic speeds.

Granulation and oscillations of the solar atmosphere. (1958 edition)

Big Bear Solar Observatory - Oscillations Solar Oscillations The oscillations appear all over the Sun. The right panel presents the power of the global solar oscillations.

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Supersonic flows are expected to produce shocks at the boundaries between granules and intergranular lanes, and may also play a role in the emergence of small-scale magnetic fields in quiet-Sun internetwork regions.

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The active parts of the Sun are also source of the oscillations; the most prominent one. The origin of the oscillations was believed to be in the sub-photosphere, yet connected with the processes in the convection zone. We show that the motions of supergranules are consistent with a model in which they are simply advected by the axisymmetric flows in the Sun's surface shear layer.

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