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Waves and oscillations in the solar atmosphere[1] CHRISTOPHER BALLOU, Evergreen St. College, MARK CHEUNG, Lockheed Martin Solar & Astrophysics Lab, E.J. ZITA, CHRISTINA SMITH, Evergreen St. College — The high temperature plasma of the solar corona and chromosphere is permeated by magnetic fields. The field lines are traced by superheated plasma which allows for observations with diverse wavelengths of light. We can observe and analyze waves and oscillations excited in the solar atmosphere, to gain insight into structures and dynamics of solar active regions. Using images from the Atmospheric Imaging Assembly onboard NASA's Solar Dynamics Observatory, we analyze select oscillations in the solar corona and chromosphere. We use computational and analytical techniques to calculate wave properties and to develop deeper understanding of compelling observations.

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