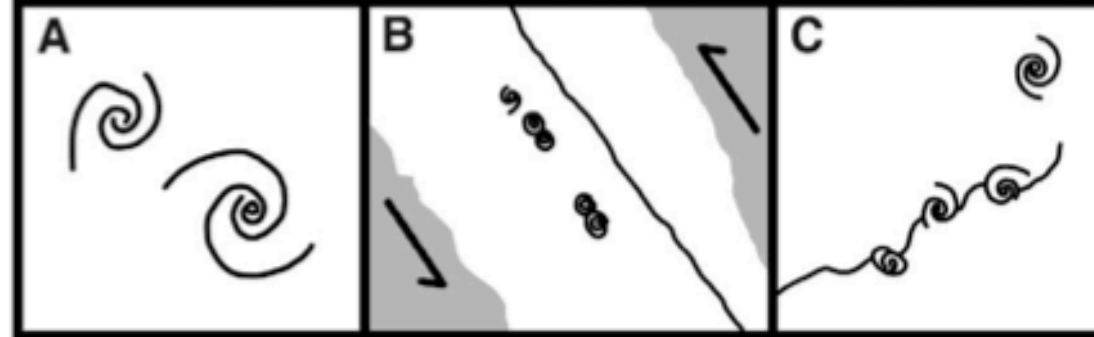
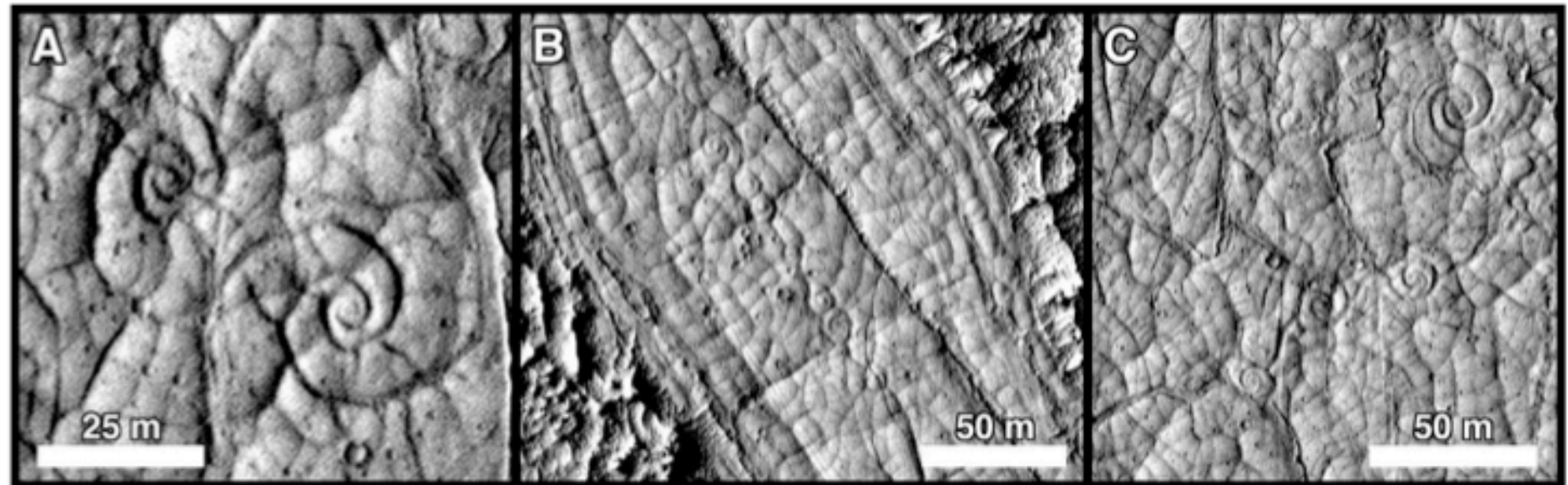


# Lava Coils on Mars

- Coils and Polygonal Crust in the Athabasca Valles Region, Mars, as Evidence for a Volcanic History, by Andrew J. Ryan and Philip R. Christensen, *Science* 336, 27 April 2012.
- Confirms (again) the volcanic origin of platy flows previously interpreted as the surface of a recent frozen sea on Mars' equator.

These features were discovered by student Andrew Ryan for a class project, in an MRO/HiRISE image acquired in early 2008.



**Fig. 2.** Coils in interplate troughs in HiRISE image PSP\_007250\_1840, with schematic diagrams below. (A) Two large clockwise coils. (B) Chain of counter-clockwise coils next to linear depression in the northwest-southeast trending trough. Primary plates are visible in periphery, with direction of shear indicated by arrows in diagram. (C) Large clockwise coil in upper right is crosscut by polygon fractures. Smaller coils with mixed orientations along bottom-center are connected by meandering depression.