Title Method for Indirect Observation of Internal Ice Stress

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Theme 1: Design, Optimization and Implementation of the Observing System

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Poster title (brief) Observing Ice Stress, Method for Indirect observation from geometrical properties of deformation characteristics in sea ice deformation fields.

Abstract - text box
Linear Kinematic Features are a prominent feature of the Arctic Sea Ice field and penetrate the ice cover through a wide range of scales. The geometrical properties of those features like orientations and curvatures provide information on the internal ice stress (pressure and shear stress) that are measurable from various remote sensing imagery. The data from this new observation method gives valuable insight into mechanical processes that have implications for ice drift models and operational support for ice navigation.