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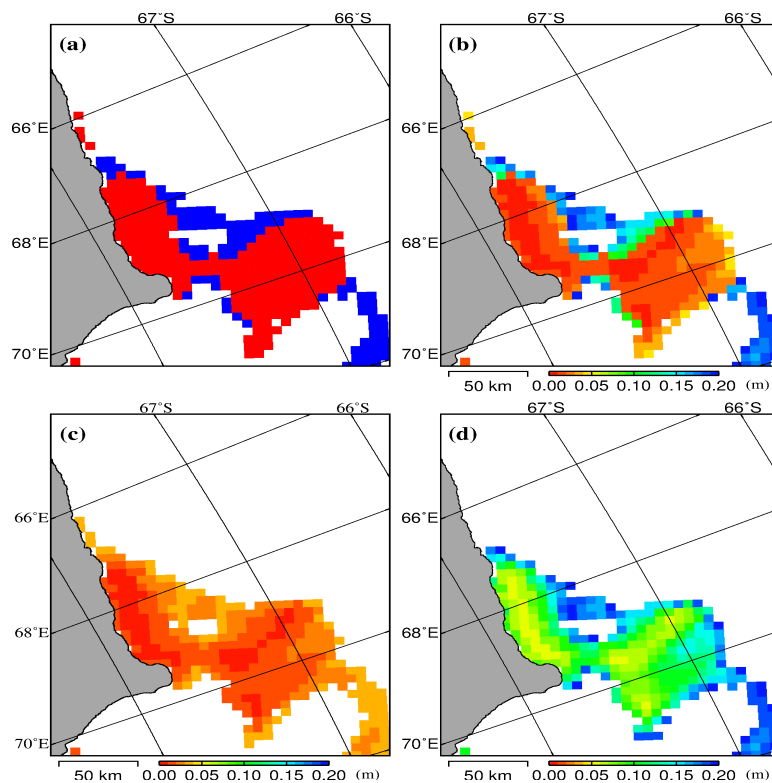
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(a) Ice type of thin sea ice and (b) its thickness off Cape Darnley, Antarctica on September 2, 2008, derived from satellite passive microwave. The ice types are classified into active frazil (red in (a)) and thin solid ice (blue in (a)), using polarization and gradient ratios of AMSR-E. (c) and (d) represents thin ice thickness when all thin ice regions would be active frazil and thin solid ice, respectively.