

ARCTIC PERMAFROST

One-fifth of frozen soils at high latitudes are thawing rapidly and becoming unstable, leading to landslides and floods that release carbon into the atmosphere.

CARBON-RICH SOIL LEVELS

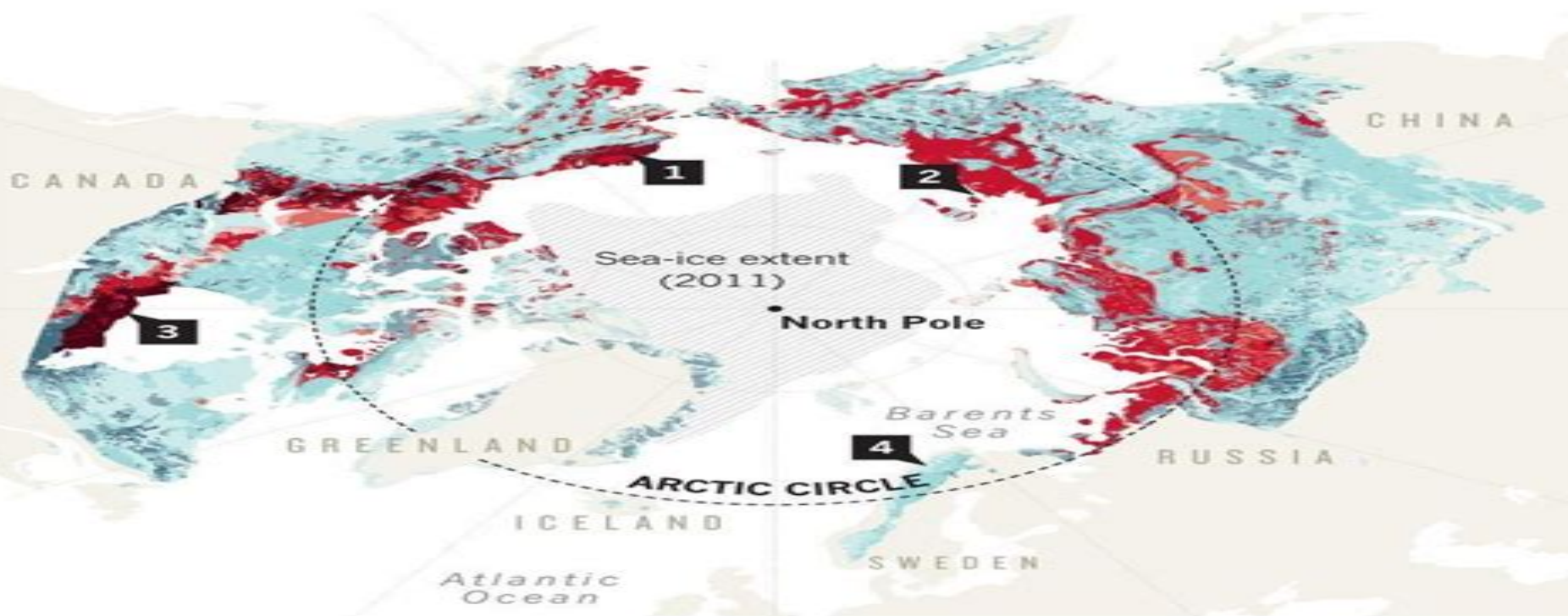
kilograms of carbon per square metre
(% of region vulnerable to type of thawing)

Rapid thawing

■ >139 (8%) ■ 139–105 (10%) ■ 104–70 (60%) ■ 69–36 (19%) ■ 35–0 (3%)

Gradual thawing

■ >139 (4%) ■ 139–105 (3%) ■ 104–70 (26%) ■ 69–36 (39%) ■ 35–0 (28%)



1 NORTH SLOPE, ALASKA, USA

Abrupt thawing is triggering landslides and eroding mountains.

2 DMITRI LAPTEV STRAIT, NORTHEAST SIBERIA

Permafrost containing thick layers of ground ice collapses suddenly when the ice melts.

3 HUDSON BAY LOWLANDS, CANADA

Thawing peatlands could release a lot of carbon.

4 TAVVAVUOMA, NORTHERN SWEDEN

Growing thaw lakes are major sources of methane.

Soil And Permafrost Surveys In The Arctic

**Rattan Lal, John M. Kimble, Ronald F.
Follett, B.A. Stewart**



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