SURFACE SEDIMENT TYPES

Calcareous ooze
$CaCO_3$ exceeds 60%. Usually foraminiferal and sandy; sometimes calcilutaceous.

Calcareous ooze
30% to 60% $CaCO_3$. Usually foraminiferal; sometimes calcilutaceous; less than 30% biogenic SiO_2 .

Calcareous foraminiferal silty clay
Often calcilutaceous; $CaCO_3$ 10% to 30%.

Calcareous clayey and sandy silt
Foraminiferal; $CaCO_3$ 10% to 20%; Antarctic shelf and slope deposits beneath Divergence.

Siliceous ooze
Usually diatomaceous; sometimes radiolarian; biogenic SiO_2 exceeds 30% and often exceeds 60%; predominantly silt-sized.

Siliceous and calcareous ooze
Both $CaCO_3$ and SiO_2 exceed 30%; texture farinaceous

Calcareous siliceous ooze
Biogenic SiO_2 exceeds 30%; $CaCO_3$ 10% to 30%.

Siliceous silty clay
Biogenic SiO_2 10% to 30%; $CaCO_3$ less than 10%; silt/clay less than 1; sand less than 10%.

Siliceous sandy silt
Biogenic SiO_2 10% to 30%; $CaCO_3$ less than 10%; silt/clay exceeds 1; sand 10% to 30%.

Siliceous clayey silt
Biogenic SiO_2 10% to 30%; $CaCO_3$ less than 10%; silt/clay exceeds 1; sand less than 10%.

Silty clay
Biogenic SiO_2 and $CaCO_3$ less than 10%; silt/clay less than 1; sand less than 10%; pelagic "red clay".

Clayey silt
Biogenic SiO_2 and $CaCO_3$ less than 10%; silt/clay exceeds 1; sand less than 10%.

Sandy silt
Biogenic SiO_2 and $CaCO_3$ less than 10%; silt/clay exceeds 1; sand 10% to 30%.

Glacial-marine deposits
Sand and larger sizes exceed 30%; silt/clay exceeds 1; Antarctic shelf and slope.

Antarctic and Subantarctic coastal deposits
Gravels; submarine terminal and recessional moraines; often with large biogenic components of glass sponge spicules, shell, bryozoans, corals, etc.

Silty sand
Often gravelly and highly calcareous with shell, coral and bryozoan fragments and foraminifers. Continental shelf deposits adjacent to South America, New Zealand, Australia, Africa, and Subantarctic islands.

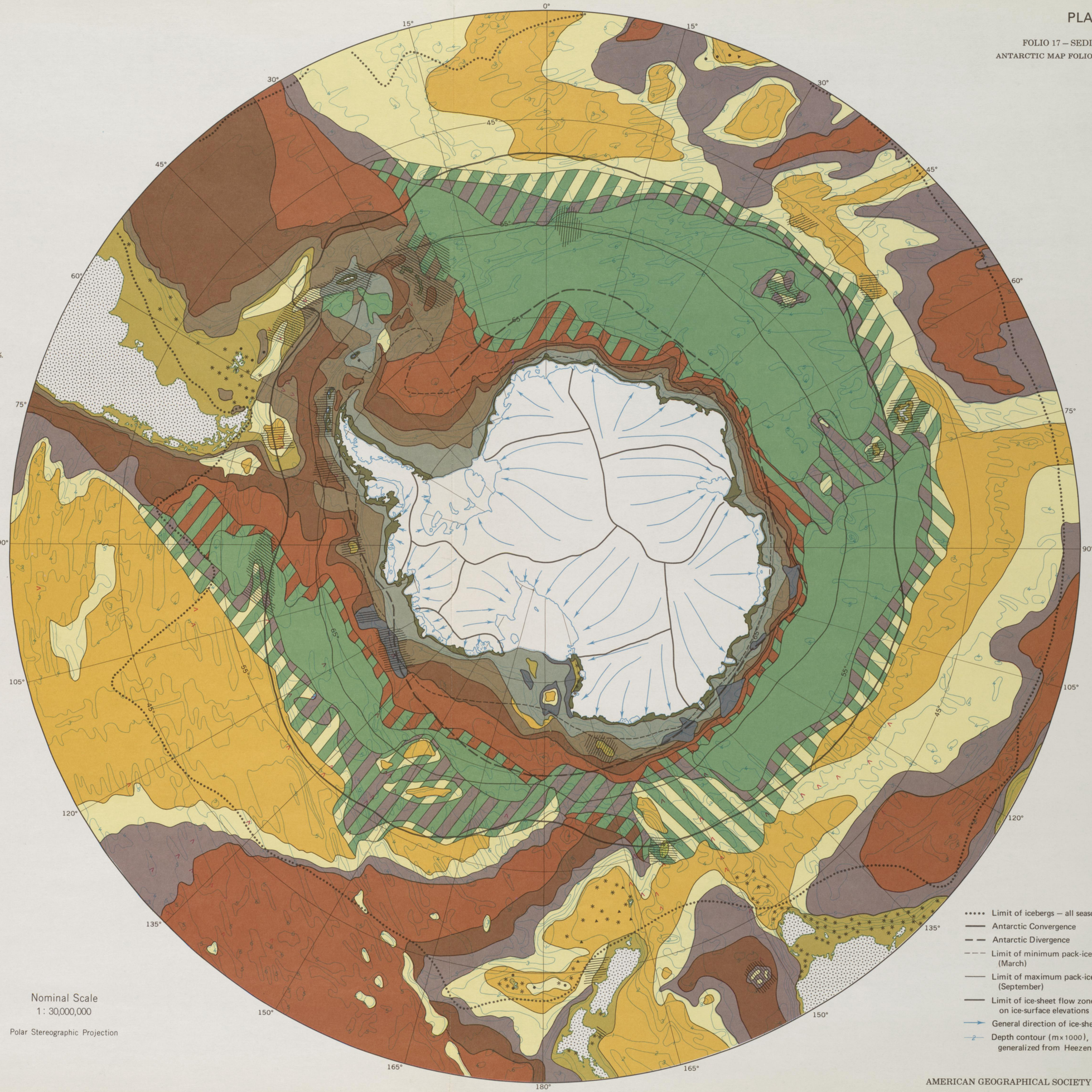
Fresh volcanics from *Eltanin* data or literature

Sediments rich in volcanic components

Glauconite

Phosphorite

Shell, coral, coralgal, bryozoan fragments



Limit of icebergs – all seasons
Antarctic Convergence
Antarctic Divergence
Limit of minimum pack-ice cover (March)
Limit of maximum pack-ice cover (September)
Limit of ice-sheet flow zone based on ice-surface elevations
General direction of ice-sheet flow
Depth contour (m×1000), generalized from Heezen (1972)

Nominal Scale
1 : 30,000,000

Polar Stereographic Projection

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