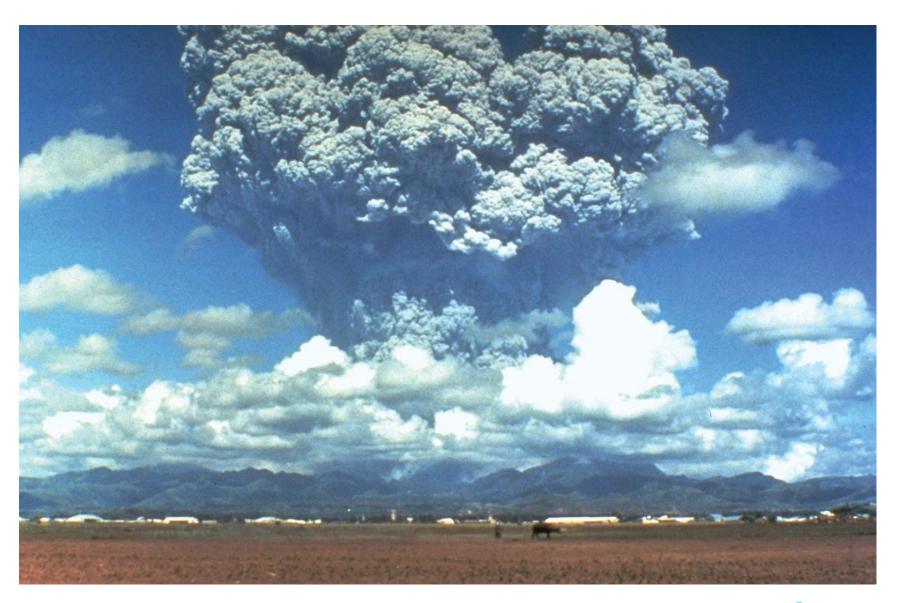
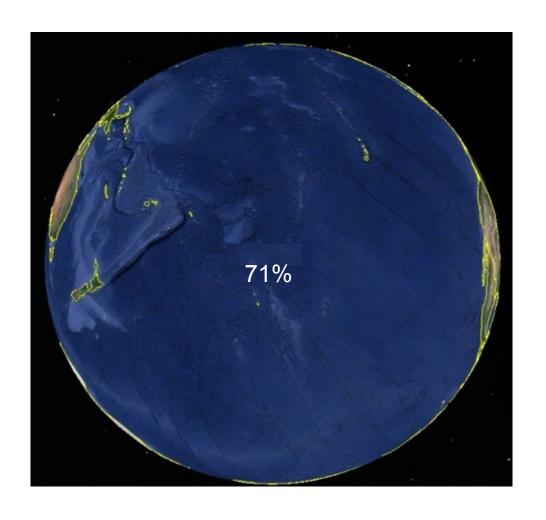
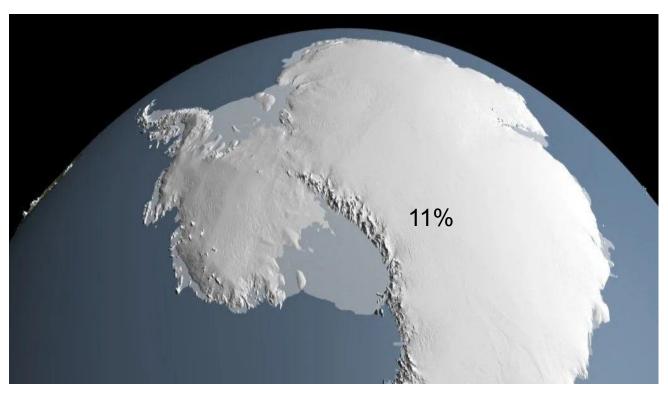
Geological Impacts on Climate



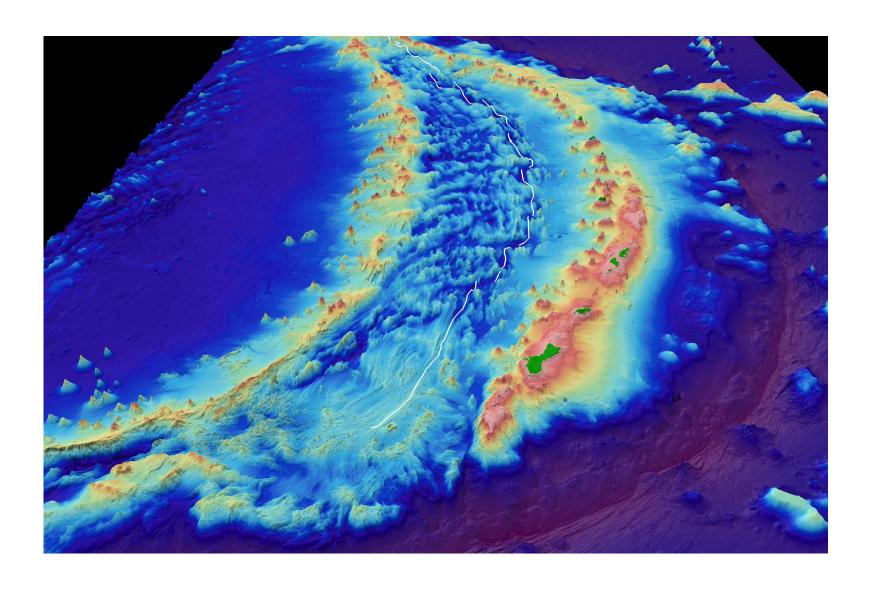
Remoteness





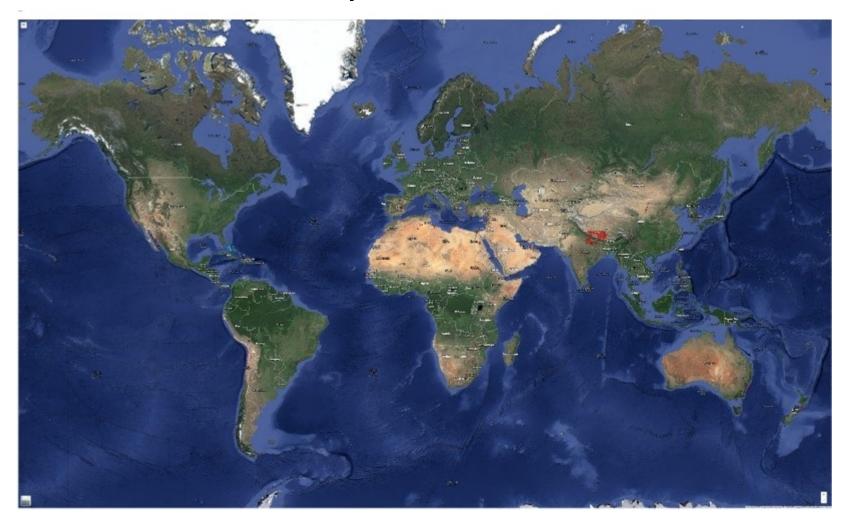


Lack of Monitoring





Interpretation Bias



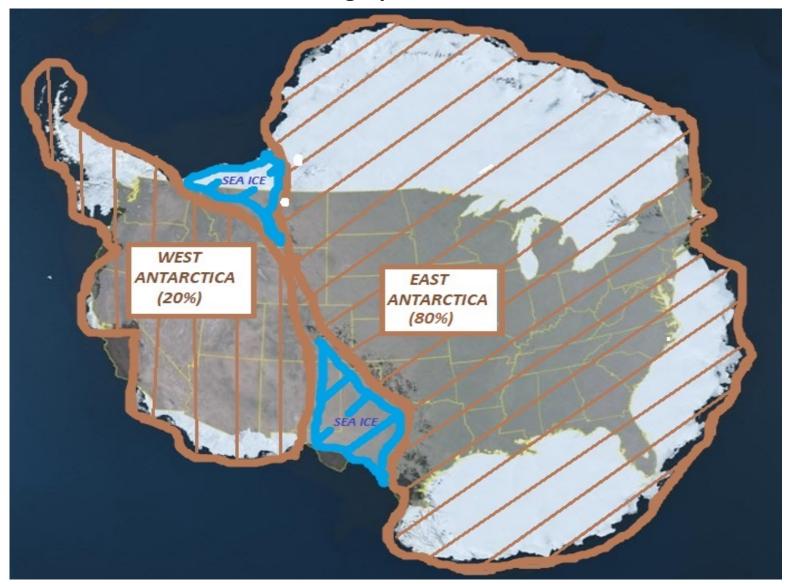


Antarctica

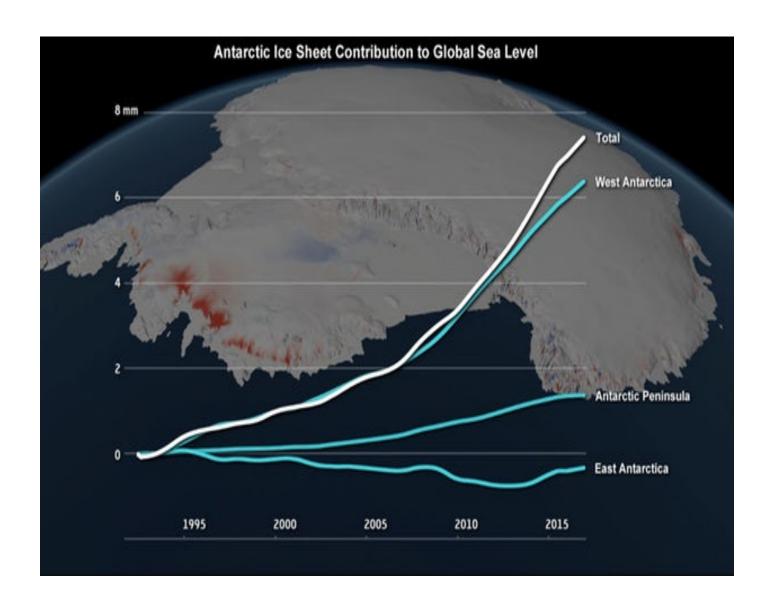




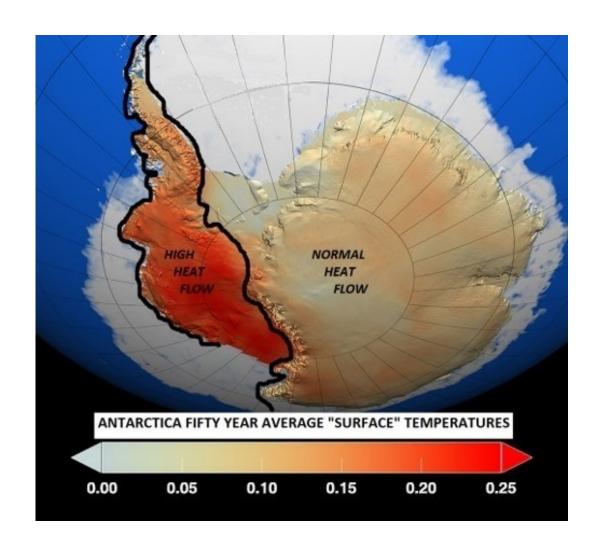
Geographical Extent

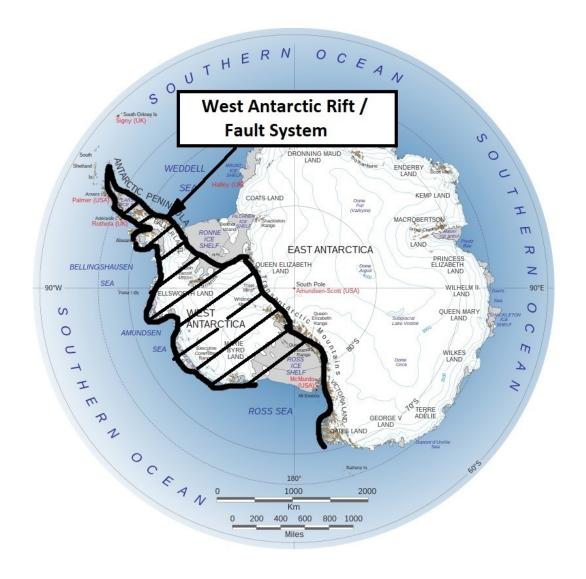


Glacial Ice Melting



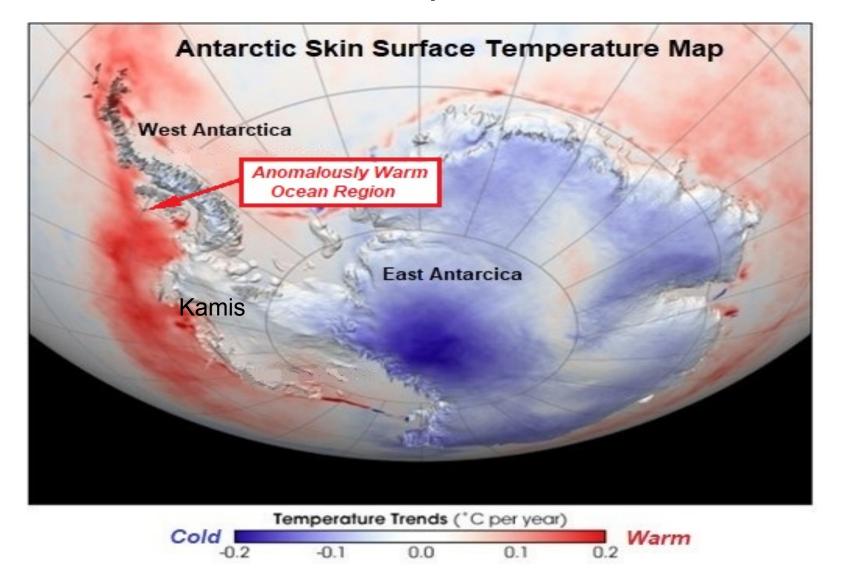
Subglacial Bedrock Heat Flow







Ocean Temperature





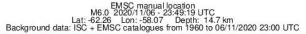
Multiple Volcanic Eruptions

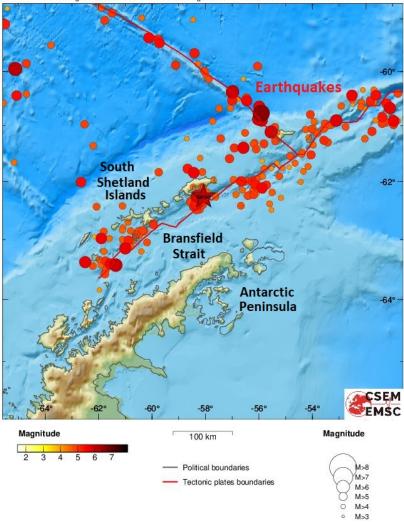




TOPOGRAPHIC MAP OF DECEPTION ISLAND 60"28" 60°44'W 60°40" Major Fault Goddard Volcano PENDULUM Pond Volcano Collapsed Volcano Baily Hood Crater Lake Volcano 63'00'S New Rock Kirkwood Lávebrua Island Kilometres Contours on rock Lakes Contours at Contours on ice Rock 50m interval UTM Projection WGS-84 zone 20 Ice Margins ○ Ice

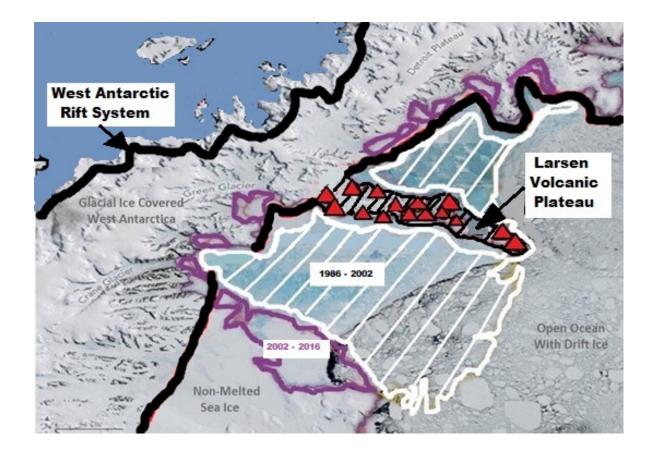
Sandwich Islands







Larsen Volcanic Plateau

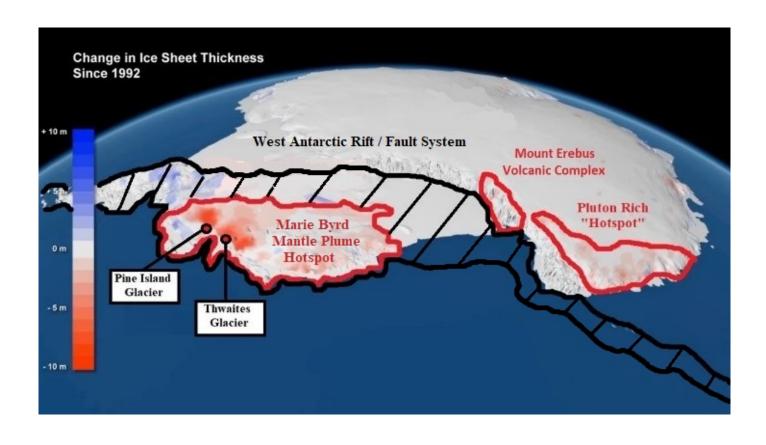


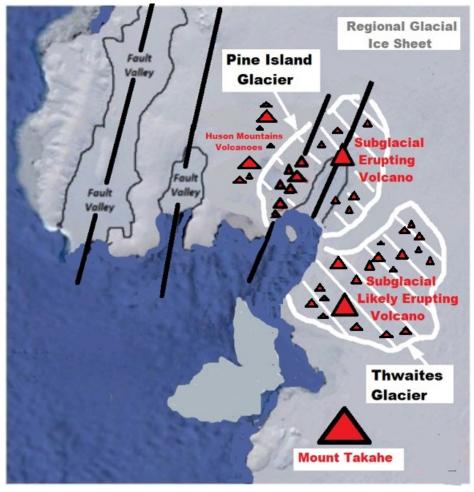






Melting of the Pine Island and Thwaites Glaciers



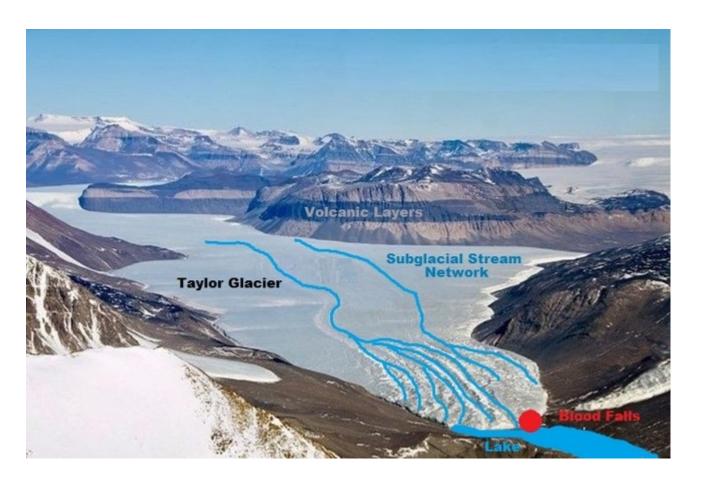




Mount Erebus



Mc Murdo Dry Valleys

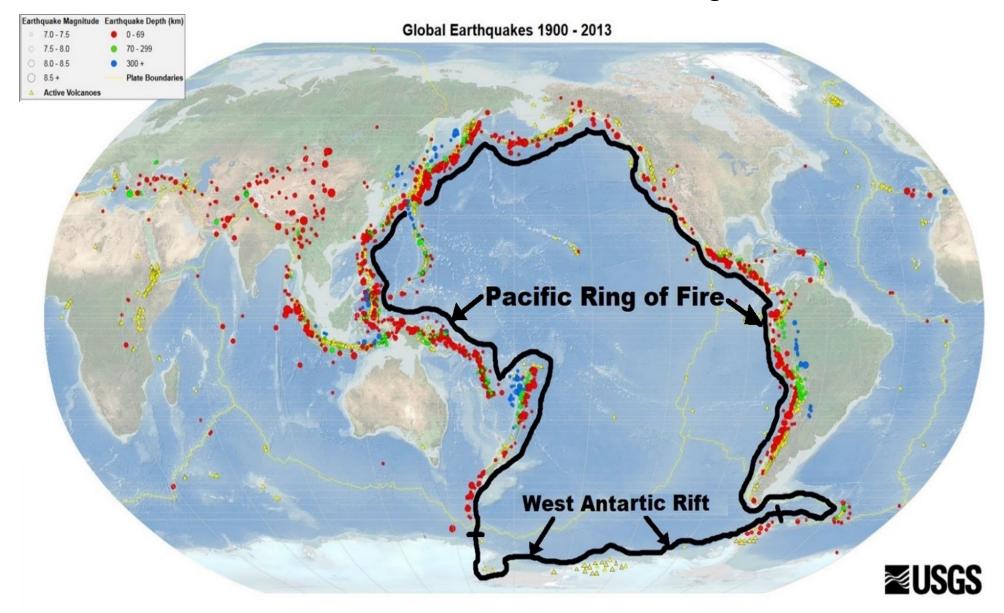








The West Antarctic Rift Connects to the Pacific Ring of Fire



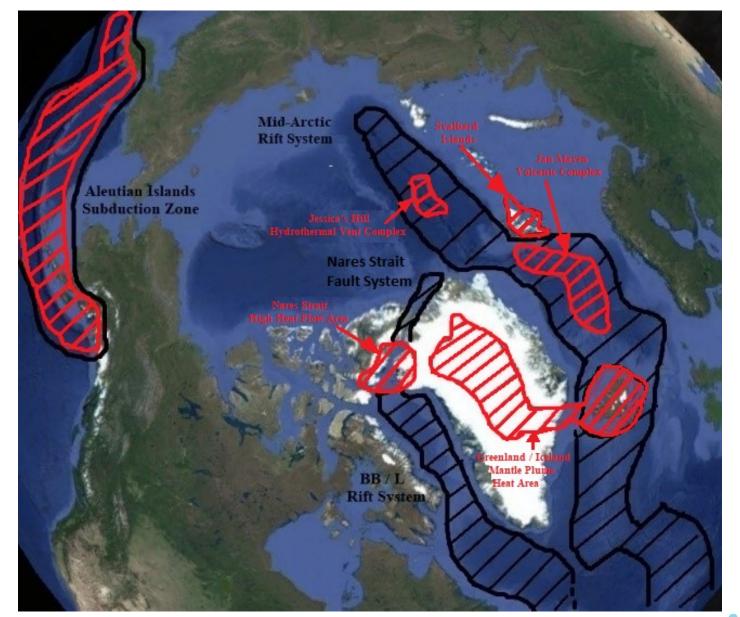


Arctic





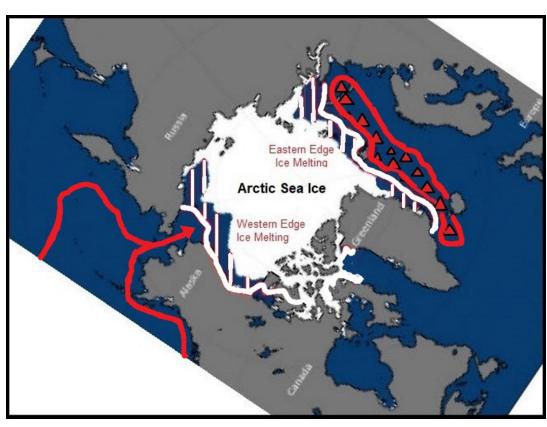
Arctic





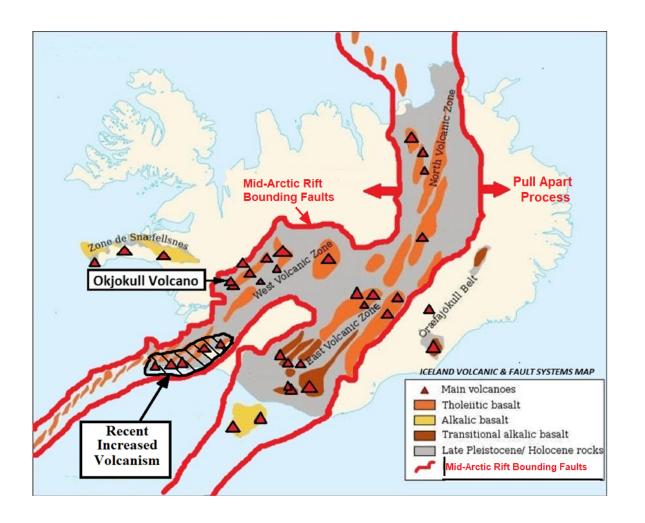
Sea Ice Melting

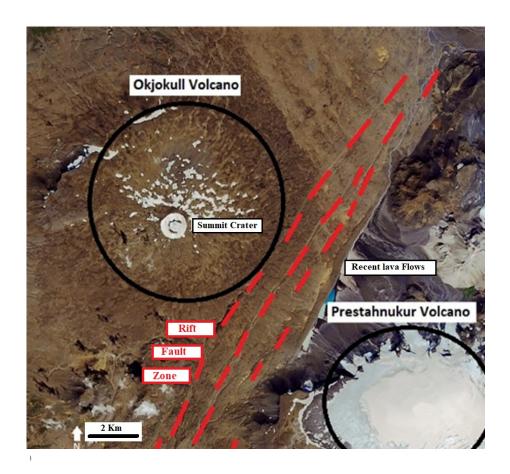






Localized Glacial Ice Melting





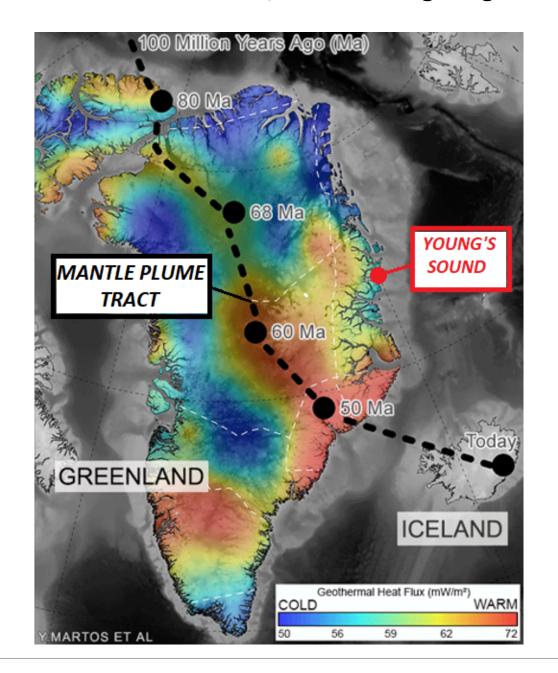


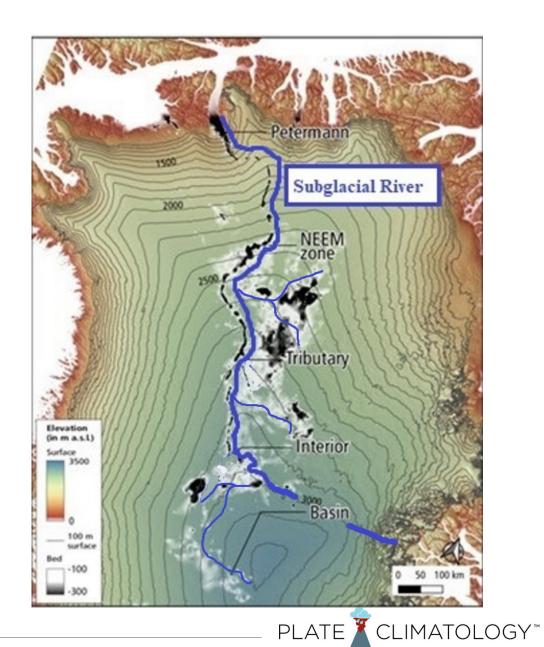
Calculation of Atmospheric CO2



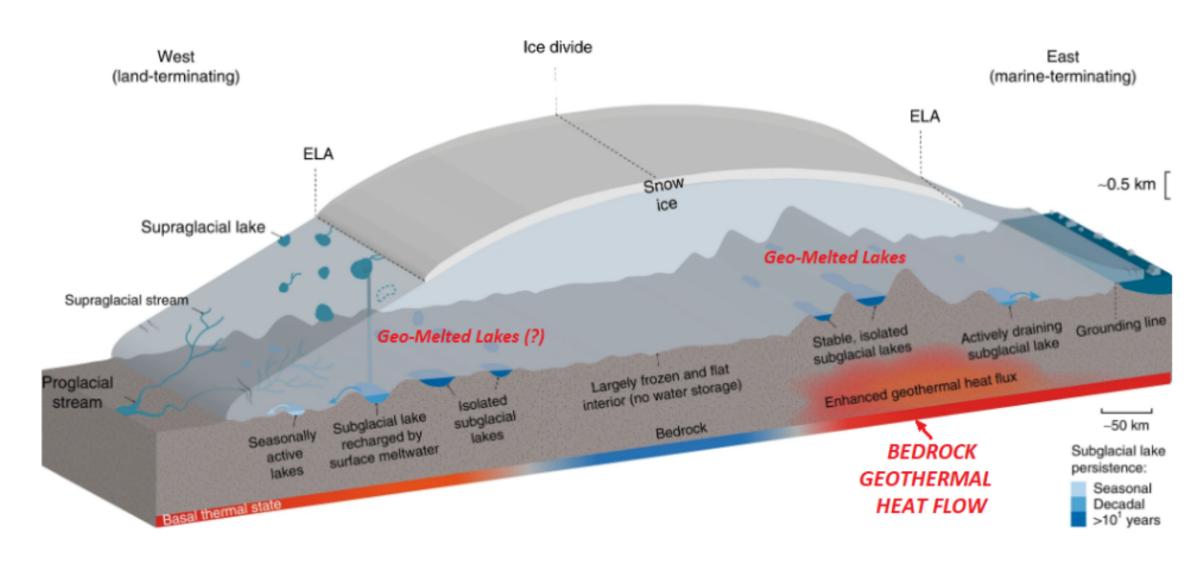


1,000-Mile-Long Subglacial River, Steam, and Lake System



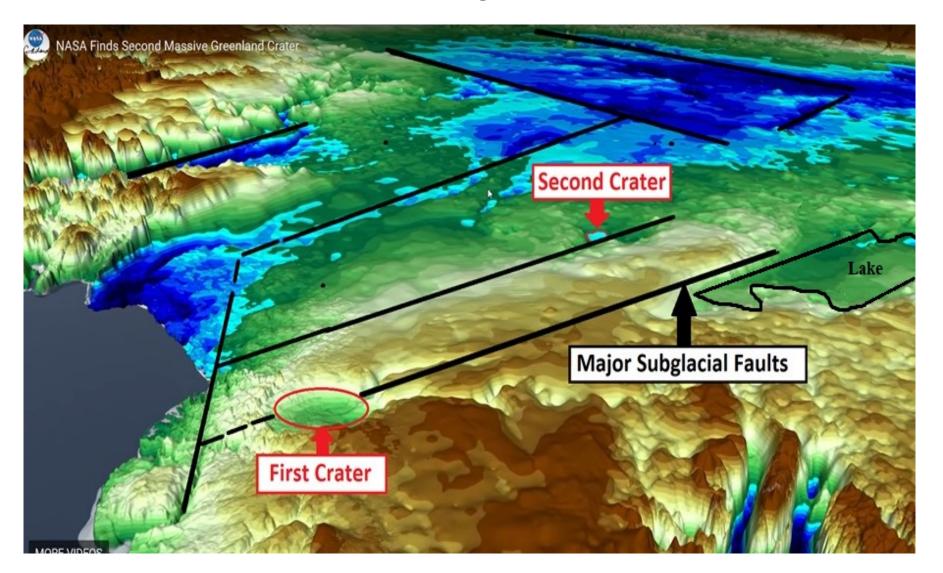


1,000-Mile-Long Subglacial River, Steam, and Lake System



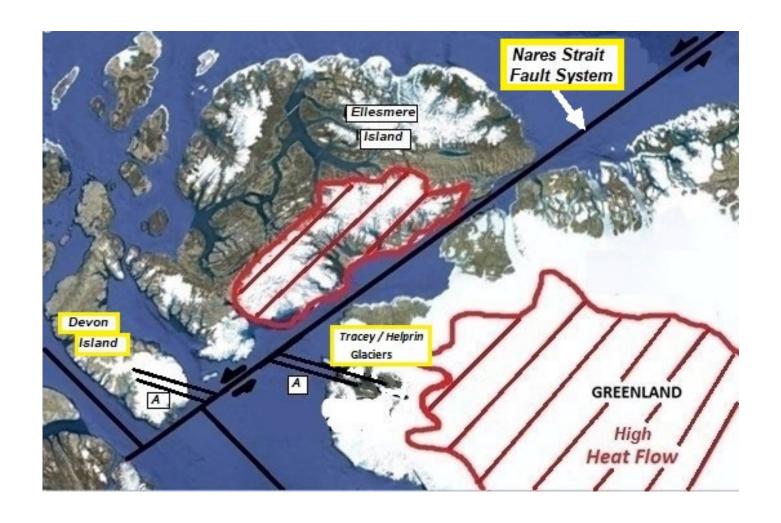


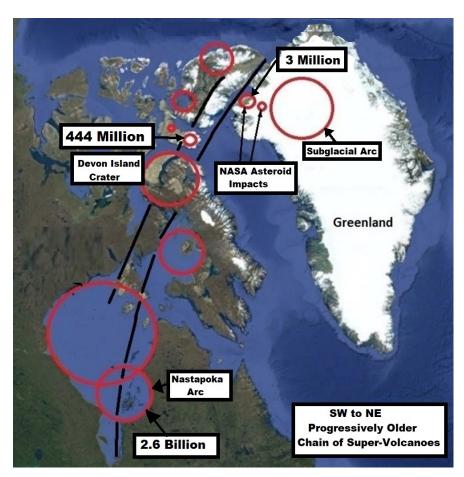
Greenland Subglacial Craters





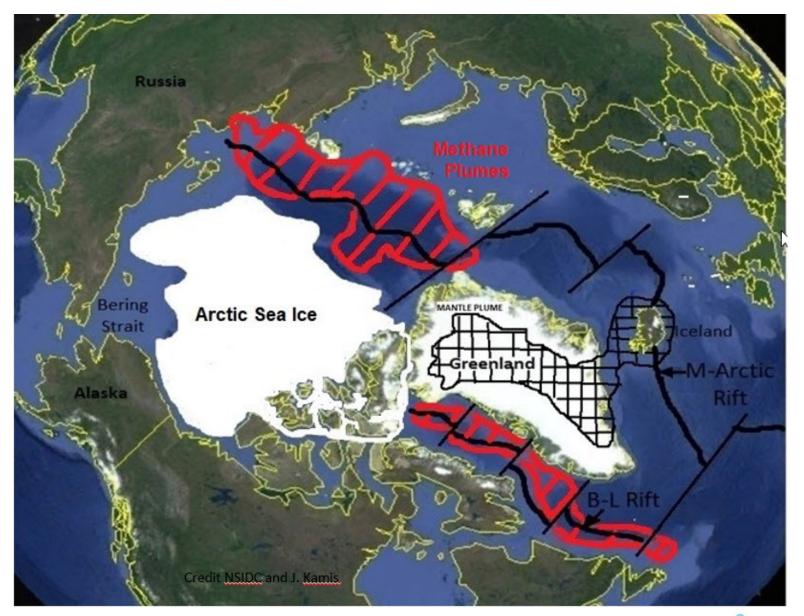
Northwest Greenland Faulting and Volcnoes



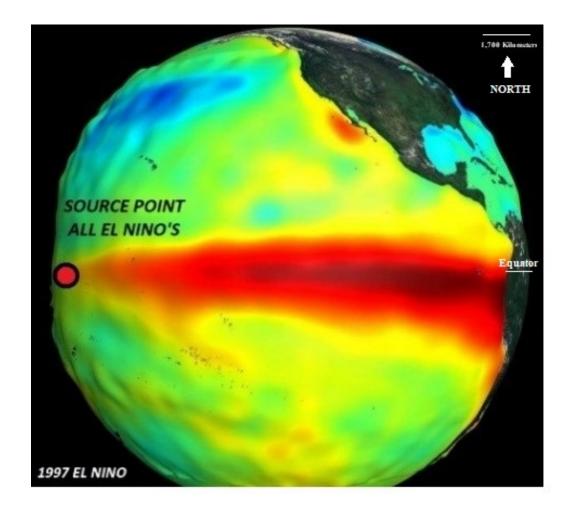




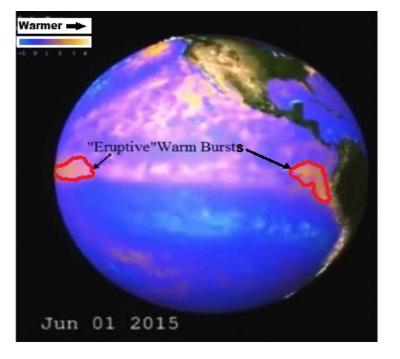
Atmospheric Methane Plume



El Nino's

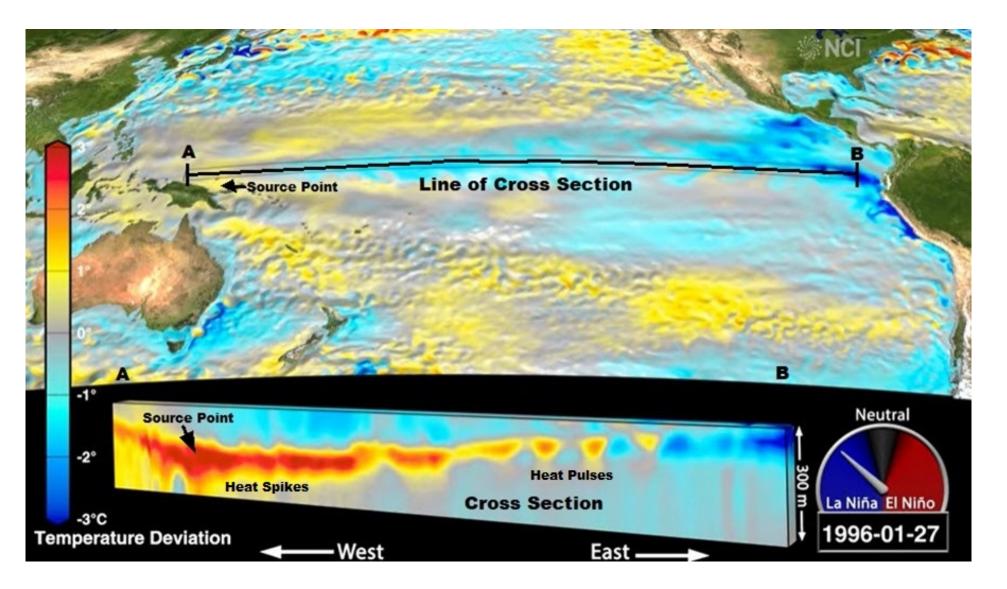






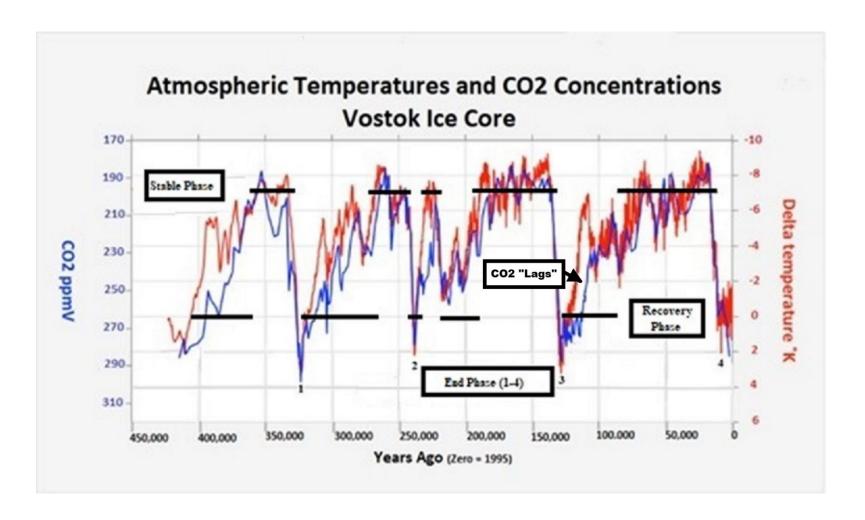


El Nino and La Nina 3D Video

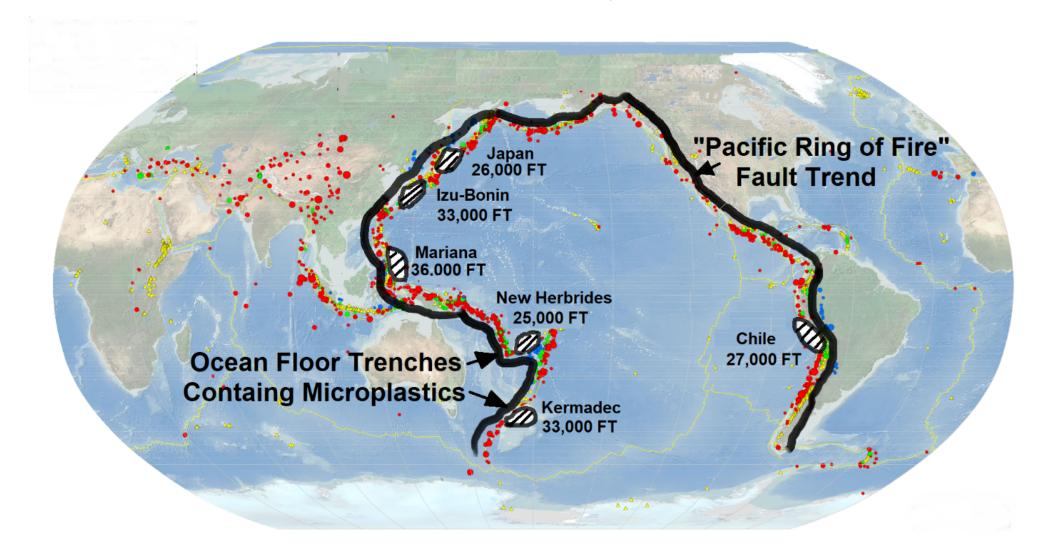




Major Ice Cycle's



Ocean Floor Microplastics

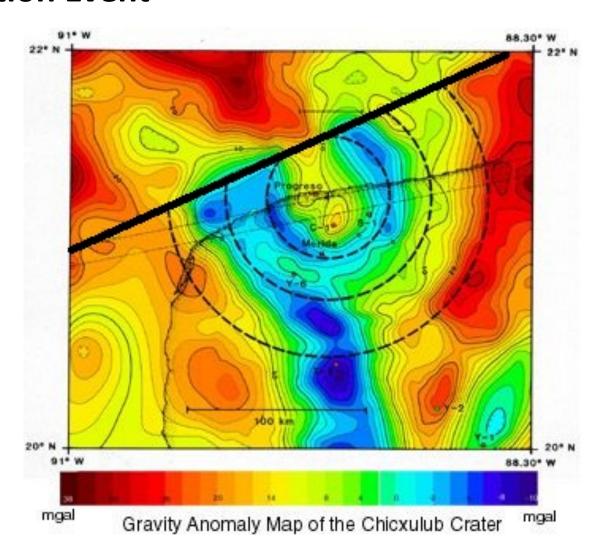




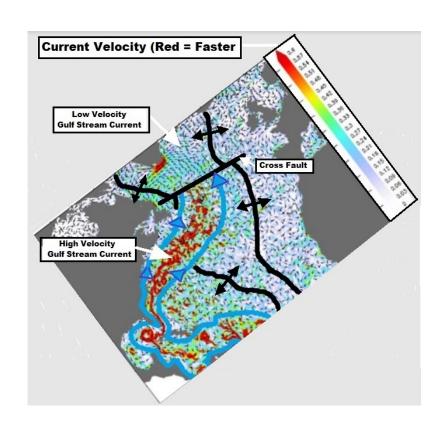
Dinosaur Extinction Event

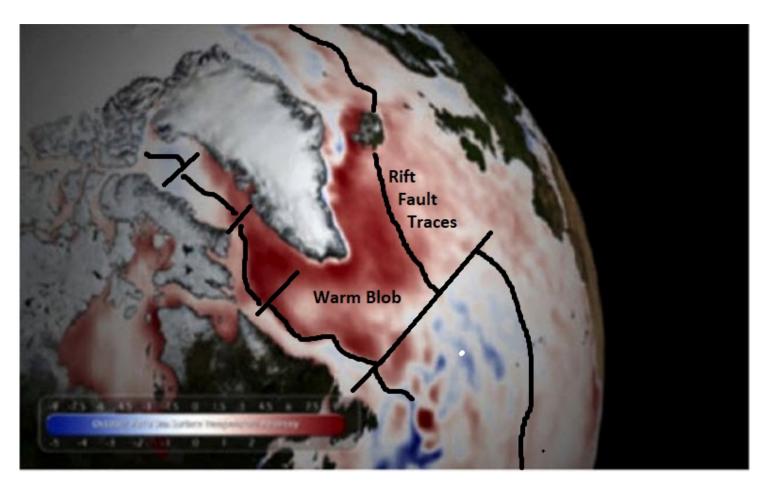


Flood Basalts (Photo credit Wikipedia)



Gulf Stream "Shutdown"

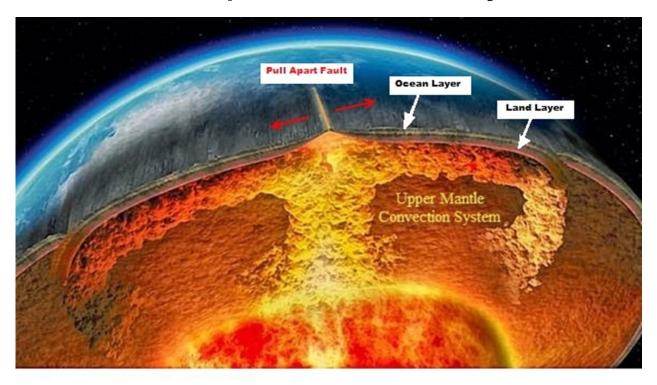






Final Thoughts

Perspective of Earth's Layers



New Cambridge Study

"Scientists have discovered that standard climate predictions may undervalue the surface temperature cooling effect of volcanic eruptions by a multiple of two, possibly even four".



New Book



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