

Flux power Antarctica

Does satellite magnetic data reveal heat flux anomalies in Antarctica?

Maule, C. F., Purucker, M. E., Olsen, N. & Mosegaard, K. Heat flux anomalies in Antarctica revealed by satellite magnetic data. Science 309, 464-467 (2005). Shapiro, N. M. & Ritzwoller, M. H. Inferring surface heat flux distributions guided by a global seismic model: particular application to Antarctica.

Are geothermal flux anomalies more widespread in East Antarctica?

We conclude that local geothermal flux anomalies could be more widespread in East Antarctica. Assessing their influence on subglacial hydrology and ice sheet dynamics requires new detailed geophysical observations, especially in candidate areas for deep ice core drilling and at the onset of major ice streams.

What is the peak geothermal flux in the Transantarctic Mountains?

The peak geothermal flux predicted from erratics in the Transantarctic Mountains is 83.6 mW m^{-2} , and requires a heat production of $\sim 7.5 \text{ mW m}^{-3}$. This heat flux is $\sim 35 \text{ mW m}^{-2}$ above background, but significantly less than our modelled value of 120 mW m^{-2} .

What is the englacial layer configuration of East Antarctica?

Ice sheet modelling shows that this englacial layer configuration requires basal melting of up to 6 mm a^{-1} and a geothermal flux of 120 mW m^{-2} , more than double the values expected for this cratonic sector of East Antarctica.

Do high heat producing granitoids exist in East Antarctica?

The presence of this sample indicates that although sparse, it is reasonable to infer that high heat producing granitoids exist in the South Pole region of East Antarctica. Additionally, it is important to consider that radiogenic intrusions could be buried and hence be more widespread than erratics alone appear to indicate.

Did tectonic rifts affect the underlying lithosphere of East Antarctica?

The underlying East Antarctic continent is generally considered to be an ancient craton, last affected by a major tectono-thermal event $\sim 500 \text{ Ma}$, although many provinces are much older^{2,3}. More recent (300-100 Ma) tectonic rifts dissect East Antarctica but appear not to have significantly altered the underlying Precambrian lithosphere⁴.

5. The lawsuit alleges that during the Class Period, Flux Power had made false and/or misleading statements and/or failed to disclose the following: (1) Flux Power's financial ...

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Power constraints in the Spanish Antarctic Station Juan Carlos I (ASJI) during the unmanned season require an energy-efficient design of the thermally regulated box housing the instrument as well ...

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Antarctic geothermal heat flow (GHF) affects the temperature of the ice sheet, determining its ability to slide and internally deform, as well as the behaviour of the continental crust.

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Across Greenland and Antarctica, our estimates of the topographic correction for geothermal heat flux highlight spatial patterns that are consistent with increased geothermal heat flux within valleys and decreased ...

Surface wind trends and variability over Antarctica and the Southern Ocean and their implications to wind

energy in the region are analyzed using the gridded ERA-Interim reanalysis data between 1979 and 2017 and the Self-Organizing Map (SOM) technique. In general, surface winds are stronger over the coastal regions of East Antarctica and the ...

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1 Introduction. Geothermal heat flux depends on several geological factors including heat flux from the mantle, heat production in the crust by radioactive decay, and tectonic history (Pollack et al., 1993). The heat flux underneath the Antarctic Ice Sheet is an important boundary condition for ice sheet behavior and associated sea level change (Golledge et al., ...

Observations of drifting snow were carried out at Mizuho Station (70°42"S, 44°20"E, 2230 m above sea level), East Antarctica, in 1982. Drift flux was proportional to about the 8th power of wind ...

In the second phase of the project, a power generation system using renewable energy that can operate automatically in the Antarctic winter is developed and deployed and demonstrated a high degree of reliability in several years of operation in spite of the relative unpredictability of the Antarctic environment. Expand

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