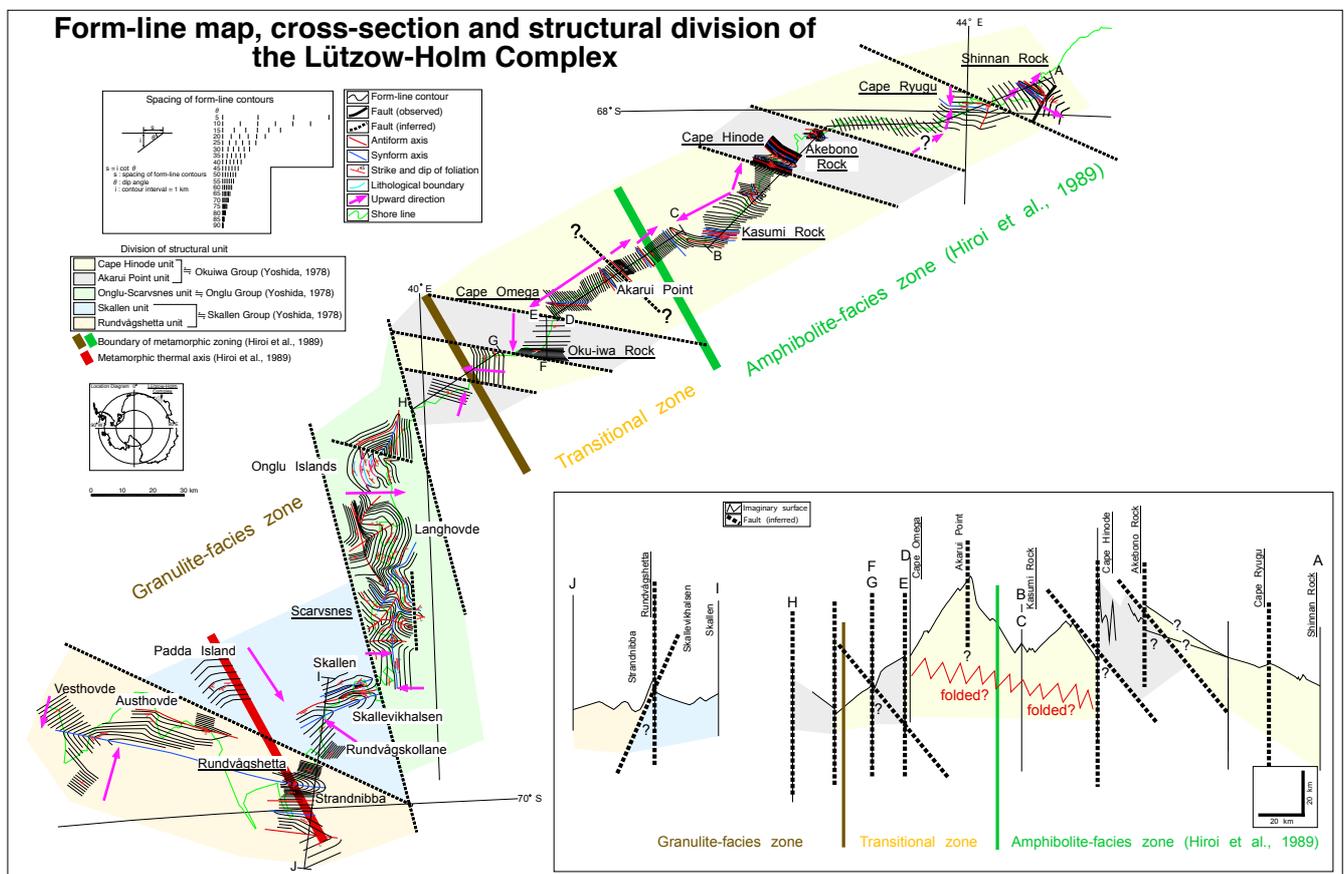


# Geological structures, crustal units, and tectonics of the Lützow-Holm Complex, East Antarctica

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Based on lithostratigraphy, Yoshida (1978) has divided the Lützow-Holm Complex (LHC), East Antarctica, into three groups: Okuiwa, Onglu, and Skallen Groups. Based on geophysical data, Nogi et al. (2013) have divided the complex into four discrete blocks possibly bounded by NE–SW-trending right lateral strike-slip faults. Based on structural characters and a form-line map, Toyoshima (2015) has also divided the complex into three structural units: Cape Hinode, Akarui Point, Onglu-Scarvsnes, Skallen, and Rundvågshetta units. Based on petrological, geochemical, and zircon U–Pb geochronological data, Takahashi et al. (2017) have divided the complex into three crustal units: 2.5 Ga unit in the southern LHC, 1.0 Ga unit in the northern LHC, and supracrustal unit in the central LHC with fragments of 1.8 Ga and minor 2.5 Ga and 1.0 Ga magmatic arcs. These divisions are based on different points of view, and so there are many similarities, but they are many differences. In this paper, these divisions are compared, and the megascopic geological structures, crustal unit division, metamorphism, and tectonics of the complex are discussed.



## References

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