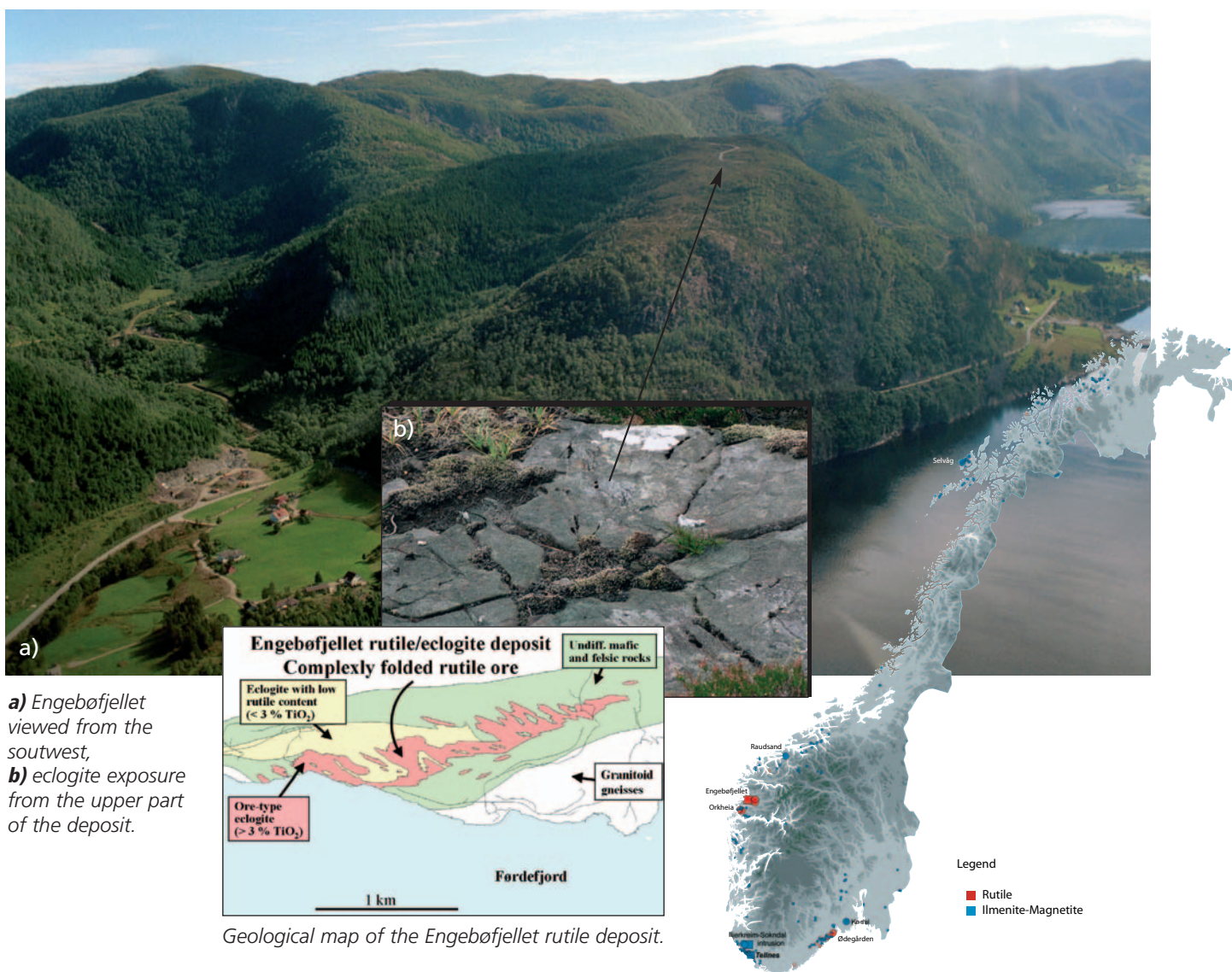




Focus on Mineral Resources

Engerbøfjellet rutile deposit



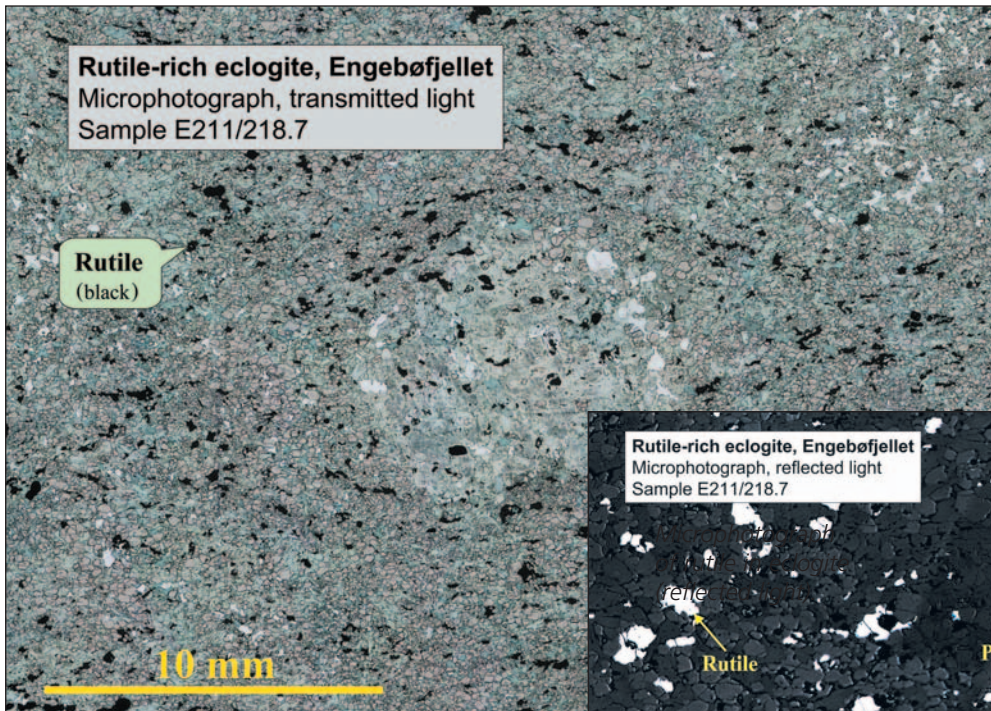
Geological map of the Engerbøfjellet rutile deposit.

Engerbøfjellet represents a 2.5 km long body of rutile-bearing eclogite, located on the north side of Førdefjord, Naustdal, Sogn og Fjordane.

The original Proterozoic gabbroic intrusion experienced crystal fractionation resulting in enrichment of both Fe and Ti, and was transformed into eclogite during Caledonian high-pressure metamorphism at approx. 400 Ma. During this process, the ilmenite in the protolith was replaced by rutile, and the Ti-enriched parts of the body are now rutile ore.

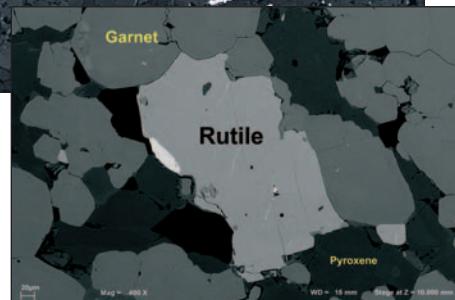
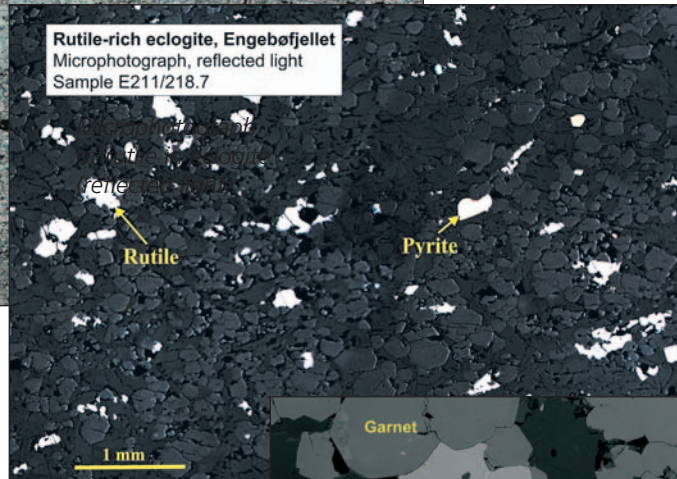
The deposit was investigated for rutile in 1995-97 in a collaboration project between American titanium pigment producer DuPont, oil company Conoco (now ConocoPhillips) and NGU.

Based on 15,000 m of core drilling, 300 million tons of rutile-bearing eclogite averaging 4 wt.% rutile has been confirmed; additional potential ore resources are very large.

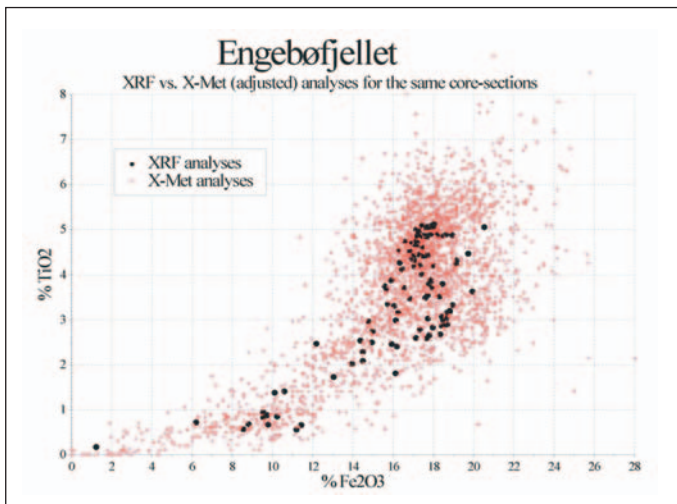


Microphotograph (mosaic image, transmitted light) of rutile-rich eclogite.

Microphotograph of rutile in eclogite (reflected light).



SEM bse-image of rutile in eclogite.



Fe_2O_3 - TiO_2 relationships in the Engebøfjellet eclogite.

- Further information available**
- Geological mapping data
 - Core data (15.000 m, 50 boreholes)
 - Chemical data (WR- and mineral analyses)
 - Beneficiation data
 - Geophysical data (gravity)

References

www.ngu.no/industrimineraler/engebøfjellet

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Korneliussen, A., McLimans, R., Braathen, A., Erambert, M., Lutro, O. and Ragnhildstveit, J. 2000: Rutile in eclogites as a mineral resource in the Sunnfjord region, western Norway. Norges geologiske undersøkelse Bulletin 436, 39-47.



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