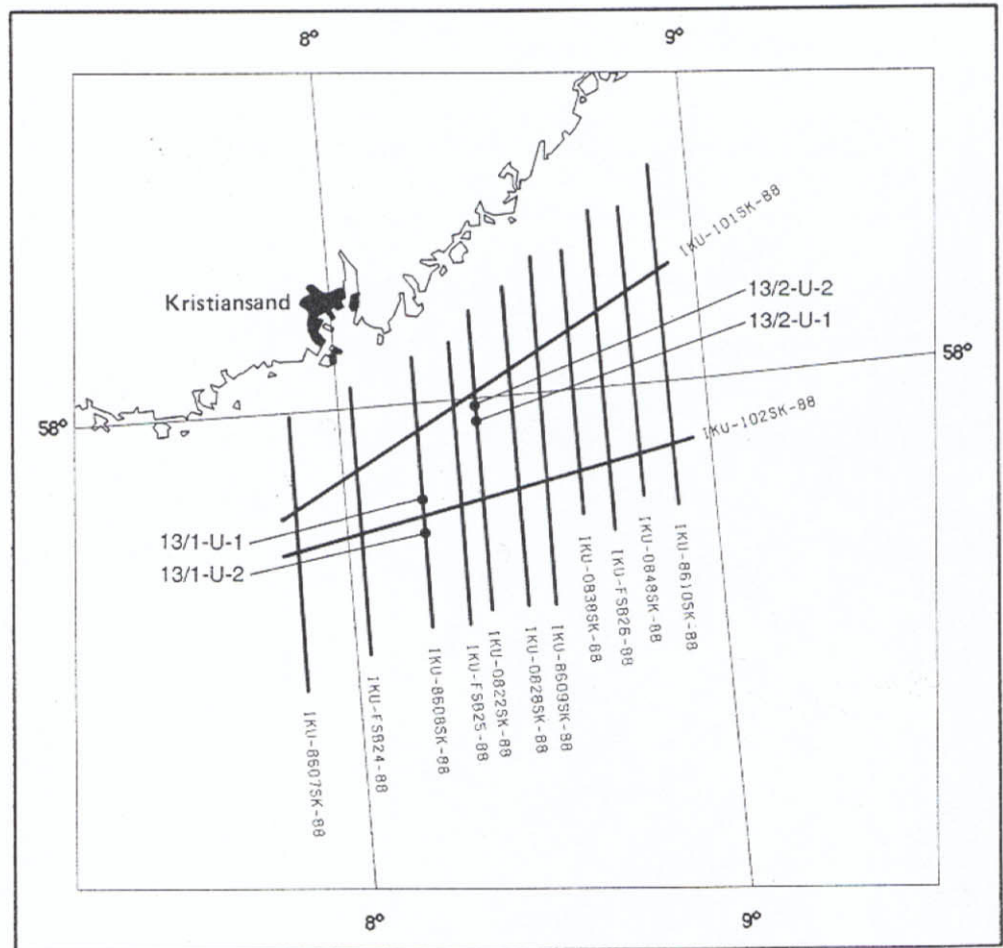


Shallow Drilling Farsund Subbasin 1988/1989

The joint industrial research and development program "Shallow Drilling Farsund Subbasin 1988/89" had the objective to carry out shallow seismic, shallow drilling and laboratory examination of the subcropping bedrock in the Skagerrak area east of the Farsund Subbasin and to evaluate the data. The aim was to collect high quality bedrock cores from chosen intervals of the Mesozoic and Paleozoic strata in the area.

In September 1988, about 670 km of shallow seismic was shot, and both digital (2.5 sec) and analog data were collected. The drillship M/S "Bucentaur" drilled four holes in May/June 1989, the deepest reaching 292.5 m below sea bed (817.5 m below sea level). The four holes comprise about 420 m of piggyback coring in bedrock, giving 370 m of bedrock samples representing an average core recovery of 88 %. Most of the cores are of Jurassic age, but the ages range from Paleozoic to Early Cretaceous. Petrophysical logging was done at all sites.



Approximately 670 km of shallow seismic was shot and four bedrock cores (370 m of bedrock samples) have been obtained.

Shallow Drilling

Core hole key data of project 21.3460.00: Shallow Drilling Farsund Subbasin 1988/1989

Core no.:	13/1-U-1	13/1-U-2	13/2-U-1	13/2-U-2
Latitude	57°51'3.75''N	57°48'42.78''N	57°59'5.13''N	57°59'40.76''N
Longitude	8°12'13.28''E	8°12'13.97''E	8°22'0.52''E	8°22'0.62''E
Water depth	525 m	505 m	514 m	522 m
Quaternary overburden	66.5 m	118.2 m	~ 64 m	27.8 m
Piggyback penetration (bedrock)	226.0 m	90.0 m	25.5 m	76.5 m
Core length (piggyback)	191.5 m	83.9 m	18.5 m	76.0 m
Core recovery	84.3 %	93.0 %	72.4 %	99.3 %
Total depth below sea bed	292.5 m	208.2 m	89.7 m	104.3 m
Total depth below sea level	817.5 m	713.2 m	603.7 m	626.3 m

Participants:

Conoco, Elf, Fina, Mobil, Agip, Norsk Hydro, Shell, Statoil and Total.

Total budget:

NOK 17.5 million

Late Participant cost:

NOK 2.6 million

Data and reports included in the project:

- * "Nearshore bedrock mapping 62° - 57°30'N", IKU project report 24.1486/01/88, 62 pp. 8 App.
- * "Field report shallow seismic Farsund Subbasin for IKU". Geoteam report no. 31795.4 October 1988.
- * "Shallow Drilling Farsund Subbasin 1988/89. Bedrock sampling and evaluation of potential coring sites". IKU project report 24.3460.00/01/89, 47 pp. 5 App.
- * Navigation tape Farsund Subbasin (UKOOA-format) with files for digital, analog airgun, deep towed sparker and side scan sonar.
- * Paper copies of analog airgun sections (13 lines).
- * Film copies of digital 2.5 s sections in half scale (13 lines)
- * Film copies of petrophysical logs in scale 1:100.
- * Tape of petrophysical logs.
- * "Shallow Drilling Farsund Subbasin 1989. Core photos." IKU project report 21.3460.18/01/89.
- * "Shallow Drilling Farsund Subbasin 1989. Main report". IKU project report 21.3460.00/04/89, 242 pp. 11 App.



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