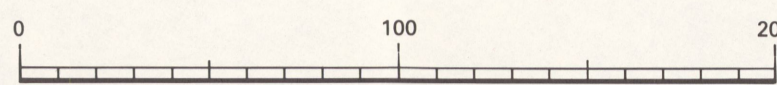


SCANDINAVIAN CALEDONIDES GRAVITY ANOMALY MAP

1985



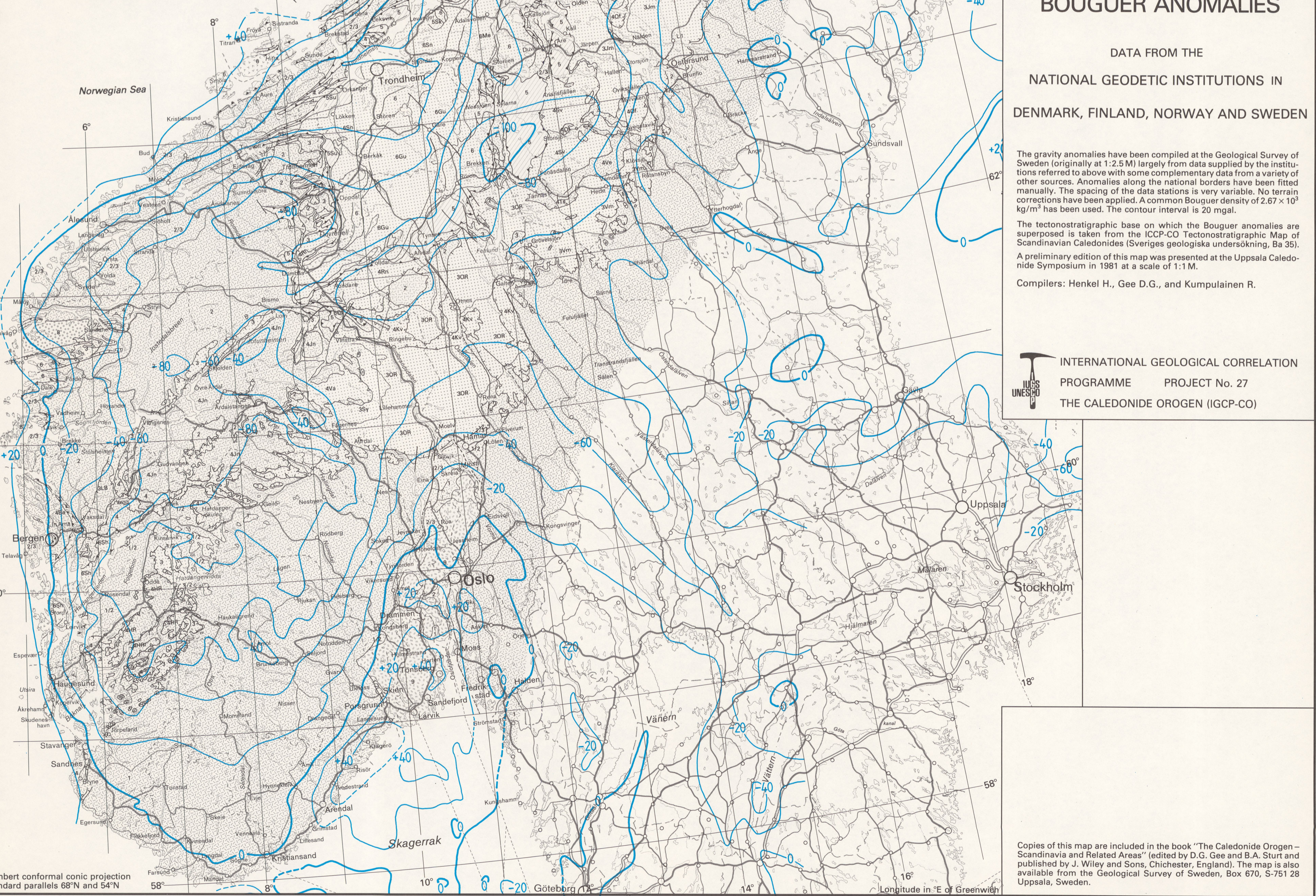
Scale 1:2,000,000

TECTONOSTRATIGRAPHY

- 9 PERMIAN AND UPPER CARBONIFEROUS
- 8 LOWER AND MIDDLE DEVONIAN (possible Upper Silurian locally)
intermontane basins (Old Red Sandstone facies)
- UPPERMOST ALLOCHTHON
- 7 Beirn (7Be), Dyrøy (7Dy), Fauske (7Fa), Helgeland (7He), Lyngen (7Ly), Narvik Gp. (7Na), Niingen Gp. (7Ni), Nordmannvik (7No), Rødingsfjället (7Rd), Salangen Gp. (7Sg), Tromsø (7Tr)
- UPPER ALLOCHTHON
- 6 Atofjället (6At), Björkvatnet (6Bj), Gasak (6Ga), Gelvenåkko (6Ge), Gjersvik (6Gj), Gula (6Gu), Joesjö (6Jo), Kälfjord (6Kf), Leipikvatnet (6Lp), Magerøy (6Ma), Meråker (6Me), Otta (6Ot), Rombak Gp. (6Ro), Senja (6Se), Stikke (6St), Storfjället (6Sr), Støren (6Sn), Sunnhordland (6Sh), Vaddas (6Vd), Vasten and Salo (6VS), KÖLI NAPPES undifferentiated
- 5 Blåhø (5Bl), Surna (5Su), Skjøtingen (5Sk), SEVE NAPPES undifferentiated
- MIDDLE ALLOCHTHON
- 4 Abisko (4Ab), Akkajaure (4Ak), Bergen anorthosite (4Ba), Gargia (4Gr), Gildetun-Navitdalen (4GN), Hardangervidda-Ryfylke (4HR), Laksefjord (4La), Leksdal (4Le), Jotun (4Jn), Kvitvola (4Kv), Kviby (4Ky), Nalganas (4NI), Offerdal (4Of), Risberget (4Ri), Rondane (4Rn), Skillefjord (4Sf), Stalon (4St), Sårvi (4Sv), Sætra (4Sæ), Sørey-Seiland (4SS), Tännäs Auger Gneiss (4Ts), Valdres (4Va), Veman (4Ve)
- LOWER ALLOCHTHON
- 3 Sedimentary cover (Upper Proterozoic and/or Lower Palaeozoic) Blaik (3Bk), Gaissa (3Gs), Gargatis (3Gg), Jämtlandian (3Jm), Lower Bergsdalen (3LB), Osen-Røa (3OR), Rautas (3Ra), Synnfjell (3Sy), Vemdalen (3Vm)
- 3 Precambrian crystalline rocks (Middle Proterozoic and older)
- PARAUTOCHTHON
- 2 Sedimentary cover (Vendian and/or Lower Palaeozoic)
- 2 Precambrian crystalline rocks (Middle Proterozoic and older)
- AUTOCHTHON
- 1 Sedimentary cover (Vendian and/or Lower Palaeozoic)
- 1 Precambrian Basement (Middle Proterozoic and older)
- 1A Barents Sea Terrane (Upper Proterozoic sedimentary rocks. Cambrian strike-slip displacement)

- PERMIAN igneous rocks
- DEVONIAN sedimentary rocks
- MAJOR CALEDONIAN INTRUSIONS (including basal parts of ophiolites)
- CALEDONIAN COVER of Upper Proterozoic and/or Lower Palaeozoic sedimentary and/or volcanic rocks
- CALEDONIAN COVER undifferentiated (rocks of unknown age)
- MIDDLE PROTEROZOIC AND OLDER ROCKS (mainly crystalline)

- THRUSTS (separating major tectonostratigraphic units)
- OTHER TECTONIC CONTACTS
- PRIMARY CONTACTS (sedimentary and igneous)



BOUGUER ANOMALIES

DATA FROM THE
NATIONAL GEODETIC INSTITUTIONS IN
DENMARK, FINLAND, NORWAY AND SWEDEN

The gravity anomalies have been compiled at the Geological Survey of Sweden (originally at 1:2.5 M) largely from data supplied by the institutions referred to above with some complementary data from a variety of other sources. Anomalies along the national borders have been fitted manually. The spacing of the data stations is very variable. No terrain corrections have been applied. A common Bouguer density of $2.67 \times 10^3 \text{ kg/m}^3$ has been used. The contour interval is 20 mgal.

The tectonostratigraphic base on which the Bouguer anomalies are superposed is taken from the ICCP-CO Tectonostratigraphic Map of Scandinavian Caledonides (Sveriges geologiska undersökning, Ba 35). A preliminary edition of this map was presented at the Uppsala Caledonide Symposium in 1981 at a scale of 1:1 M.

Compilers: Henkel H., Gee D.G., and Kumpulainen R.

INTERNATIONAL GEOLOGICAL CORRELATION
PROGRAMME PROJECT No. 27
THE CALEDONIDE OROGEN (IGCP-CO)

Copies of this map are included in the book "The Caledonide Orogen - Scandinavia and Related Areas" (edited by D.G. Gee and B.A. Sturt and published by J. Wiley and Sons, Chichester, England). The map is also available from the Geological Survey of Sweden, Box 670, S-751 28 Uppsala, Sweden.