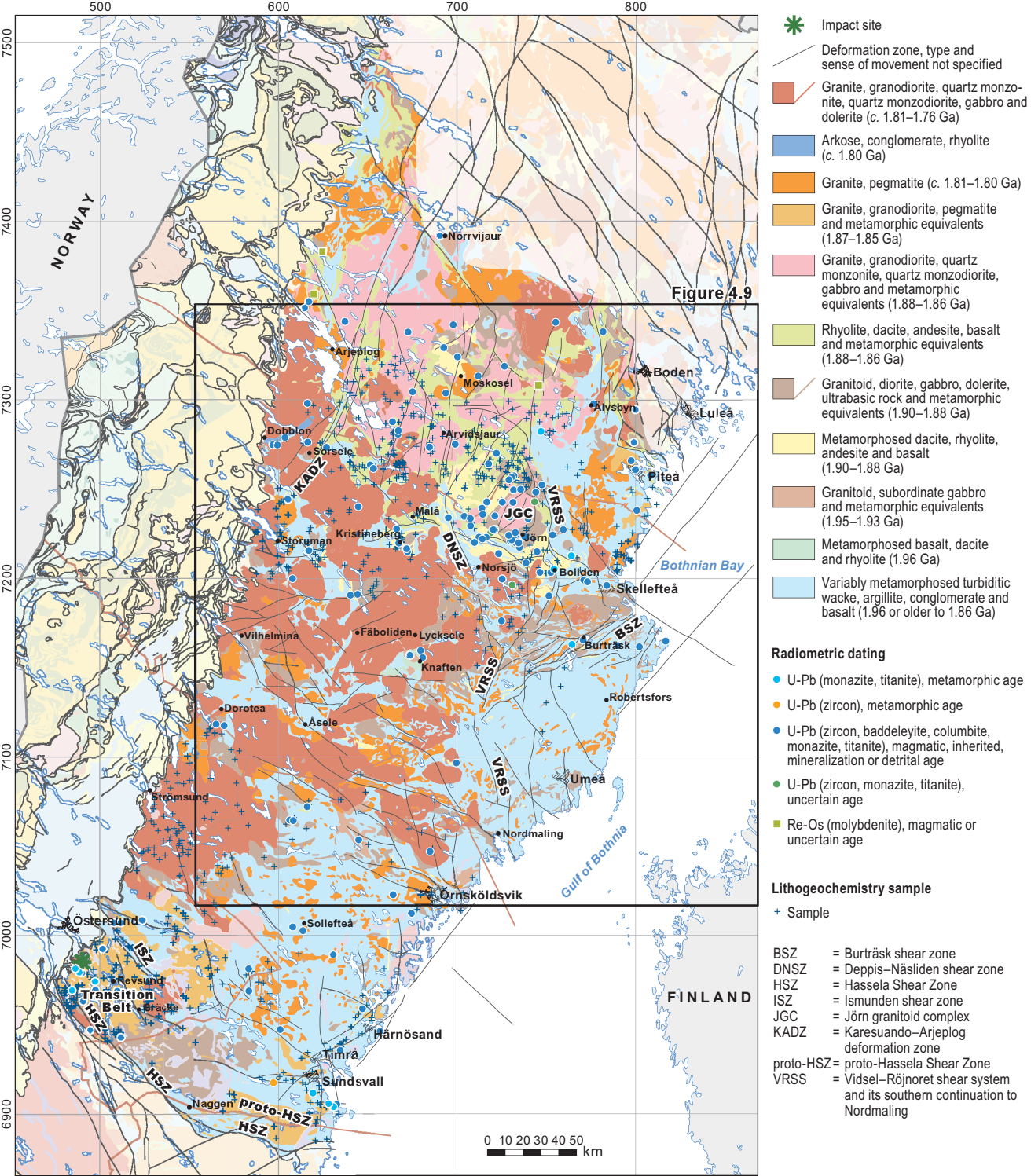
500
600
700
800
7500
7400
7300
7200
7100
7000
6900
NORWAY
FINLAND
Figure 4.9
Norrvijaur
Arjeplog
Moskosel
Boden
Älvsbyn
Luleå
Dobblon
Sorsele
Arvidsjaur
Piteå
KADZ
VRSS
JGC
Malå
Kristineberg
Storuman
DNSZ
Jörn
Norsjö
Bollden
Bothnian Bay
Skellefteå
Vilhelmina
Fäboliden
Lycksele
BSZ
Burträsk
Knaften
VRSS
Robertsfors
Dorotea
Åsele
VRSS
Umeå
Strömsund
Nordmaling
Gulf of Bothnia
Örnsköldsvik
Östersund
Sollefteå
ISZ
Revsund
Transition Belt
Bräcke
HSZ
Härnösand
Timrå
HSZ
Sundsvall
Naggen
proto-HSZ
HSZ
0 10 20 30 40 50 km
Impact site
Deformation zone, type and sense of movement not specified
Granite, granodiorite, quartz monzonite, quartz monzodiorite, gabbro and dolerite (c. 1.81–1.76 Ga)
Arkose, conglomerate, rhyolite (c. 1.80 Ga)
Granite, pegmatite (c. 1.81–1.80 Ga)
Granite, granodiorite, pegmatite and metamorphic equivalents (1.87–1.85 Ga)
Granite, granodiorite, quartz monzonite, quartz monzodiorite, gabbro and metamorphic equivalents (1.88–1.86 Ga)
Rhyolite, dacite, andesite, basalt and metamorphic equivalents (1.88–1.86 Ga)
Granitoid, diorite, gabbro, dolerite, ultrabasic rock and metamorphic equivalents (1.90–1.88 Ga)
Metamorphosed dacite, rhyolite, andesite and basalt (1.90–1.88 Ga)
Granitoid, subordinate gabbro and metamorphic equivalents (1.95–1.93 Ga)
Metamorphosed basalt, dacite and rhyolite (1.96 Ga)
Variably metamorphosed turbiditic wacke, argillite, conglomerate and basalt (1.96 or older to 1.86 Ga)
Radiometric dating
U-Pb (monazite, titanite), metamorphic age
U-Pb (zircon), metamorphic age
U-Pb (zircon, baddeleyite, columbite, monazite, titanite), magmatic, inherited, mineralization or detrital age
U-Pb (zircon, monazite, titanite), uncertain age
Re-Os (molybdenite), magmatic or uncertain age
Lithogeochemistry sample
Sample
BSZ = Burträsk shear zone
DNSZ = Deppis–Näsliden shear zone
HSZ = Hassela Shear Zone
ISZ = Ismunden shear zone
JGC = Jörn granitoid complex
KADZ = Karesuando–Arjeplog deformation zone
proto-HSZ = proto-Hassela Shear Zone
VRSS = Vidsel–Röjnoret shear system and its southern continuation to Nordmaling