

APPENDIX 2

Table 2. Sample descriptions

Sample	Description
225	Felsic gneiss, fine-grained and very light-gray. From the upper part of the lower of the two layers, which connect.
226	Amphibolite, even-grained, fine-grained, medium-gray, little apparent mineral orientation.
227	Hornblende, dark-gray, medium-grained, from boudins in between more normal amphibolite layers like that of sample 226.
228	Ordovician gneiss, medium-grained, light-gray, foliated rock. Very homogeneous, biotite–plagioclase–quartz gneiss.
229	Ordovician gneiss, from the NW end of the island. Light-gray.
230	Ordovician gneiss, fine-grained, light-gray, fresh.
231	Amphibolite from 3 m below contact with the gneiss, in a relatively unlayered amphibolite section. Medium-gray, medium-grained.
232	Ordovician gneiss, 4 m above contact with amphibolite, out of the thinly layered zone near the contact. Medium-grained, light-gray.
233	Amphibolite 40 m from the contact with Ordovician gneiss and 4 m from the contact with apparent basement gneisses at the E end of the outcrop. Medium-grained, medium-gray.
234	Ordovician gneiss from the blasted interior of a small hut just W of the summit. Light-gray, medium-grained biotite gneiss, possible epidote.
235	Ordovician gneiss from the E side of the roadcut, 5 m from the N end. K-feldspar-bearing, medium-grained, rather mafic compared to the other, more tonalitic samples of this rock.
236	Ordovician gneiss from the W side of the roadcut, near the S end of the outcrop. Light-gray, even-grained biotite gneiss.
238	Ordovician gneiss, fine-grained, light-gray biotite gneiss from 5 m to the left of the contact with Blåhø. Probably strongly sheared.
266	Amphibolite dike 25 cm thick cutting Ordovician gneisses. Plagioclase streaks, dark-gray, fine-grained.
267	Ordovician gneiss, hornblende-bearing from the SW end of the shoreline outcrop. Light-gray, fine-grained, streaky foliation and lineation.
268	Ordovician gneiss, light-gray, fine-grained with sparse small garnets.
269	Amphibolite dike 15 cm thick, somewhat fissile. Fresh rock is dark greenish-gray, fine-grained with biotite smears along the foliation.
270	Amphibolite dike 20 cm thick. Fine-grained, non-fissile, dark-gray, with sparse, small, pale garnets.
271	Amphibolite dike 1 m thick. Dark greenish-gray, fine-grained, layered in places.
272	Ordovician gneiss, medium-gray, medium-grained, biotite gneiss from a homogeneous layer.
273	Amphibolite dike 40 cm thick, somewhat fissile weathering, dark greenish-gray, fine-grained.
274	Amphibolite dike 35 cm thick, fine-grained and dark greenish-gray. Clearly crosscuts veins and other features in gneiss.
275	Ordovician gneiss, hornblende-bearing, medium-gray from a homogeneous 30 cm above the dike of sample 274.
276	Amphibolite composite dike 35 cm thick, plagioclase-streaked layer.
277	Amphibolite composite dike 35 cm thick, garnet-bearing layer.
278	Amphibolite composite dike 35 cm thick, fissile-weathering layer.
279	Ordovician gneiss, hornblende-bearing, medium-grained, light-gray.
280	Ordovician gneiss, hornblende-bearing, fine-grained, medium-gray.
290	Ordovician gneiss, fine-grained, medium pinkish-gray with some pike feldspar and considerable epidote.
291	Ordovician gneiss, medium-grained and light pinkish-gray with feldspar augen up to 1 cm long. Not dismembered veins. From the point farthest NW toward Hitra, farthest outboard.
292	Ordovician gneiss, medium-grained, light gray with very few augen. Considerable epidote in the plane of the foliation.
293	Ordovician gneiss, fine-grained and light-gray. Contains small numbers of large (4 mm) euhedral titanite and similarly large allanite grains.
294	Ordovician gneiss, fine-grained, medium-gray, very homogeneous where sampled, from a low blasted roadcut on the top of the hill on the point.

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(Table 2, continued)

Sample	Description
295	Ordovician gneiss, dark pinkish-gray, somewhat migmatitic, but much less so and much straighter foliation than basement seen on access road. Coarse grained with biotite, hornblende, quartz, K-feldspar, plagioclase.
296	Ordovician gneiss, medium-grained, hornblende-bearing, medium pinkish-gray.
297	Hornblendite dike cutting gneissic layering. Coarse-grained, dark green, 30 cm thick.
298	Ordovician gneiss, medium-grained, medium-gray hornblende-bearing gneiss. More leucocratic than samples 297 and 296.
394	Felsic gneiss, coarse-grained, dark-gray, with large allanite grains and secondary epidote. Thickness of layer indefinite, but many 10s of meters.
395	Felsic gneiss, medium-grained, medium-gray, well-foliated and lineated. Thickness of layer indefinite, but many meters.
396	Felsic gneiss, medium-grained, medium-gray, somewhat foliated and lineated, with hornblende-rich segregations ~1 cm across; sample is without segregations. Thickness of layer indefinite, but many meters.
397	Felsic gneiss, coarse-grained, medium-gray, associated coarse hornblende-rich pegmatitic segregations not included in sample. Thickness of layer indefinite, but many meters.
398	Felsic gneiss, medium-grained, light medium-gray, some epidote, deformed pegmatite with euhedral hornblendes not included in sample. Thickness of layer indefinite, but many meters.
399	Amphibolite, fine-grained, dark-gray amphibolite, folded layer in sample 400 gneiss, only ~8 cm thick.
400	Felsic gneiss, medium-grained, medium-gray, from 3 m W of sample 399, just 5 or 6 m from the point. Thickness of layer indefinite, but many meters.
401	Felsic gneiss, medium-grained, light-gray, not so homogeneous but looks like intrinsic inhomogeneities. Lightest collectable gneiss along the outcrops here. 3 m thick layer.
402	Felsic gneiss, coarse-grained, medium-gray. Sparse mafic enclaves. Thickness of layer indefinite, but many meters.
403	Felsic gneiss, fine-grained, light-gray. Thickness of layer indefinite, but many 10s of meters.
404	Felsic gneiss, coarse-grained, medium-gray. Thickness of layer indefinite, but many meters. From next to bonfire pit so sample not useful for fission track or argon work.
405	Felsic gneiss, medium-grained, medium-gray. Thickness of layer indefinite, but many meters.
406	Felsic gneiss, coarse-grained, medium-gray. Thickness of layer indefinite, but many 10s of meters, same appearance as sample 394 down the hill.
407	Amphibolite, fine-grained, gray-green, hornblende-rich layer ~0.5 m thick that is relatively homogeneous
408	Amphibolite, plagioclase porphyritic, dark-gray, fine-grained, layer 15 cm thick in layered section, very streaky appearance.
409	Felsic gneiss cutting greenstone (?). Large hornblende crystals in a quartz-feldspar matrix. Light-gray, coarse-grained.
410	Felsic gneiss, dike cutting greenstones. This sample is from the S side of the dike and has garnet and cummingtonite.
411	Felsic gneiss, dike cutting greenstones. This sample is from the N side of same dike as 410. Hornblende-cummingtonite, sparse garnet.
412	Amphibolite, medium-grained, dark gray, very fresh. Possible deformed pillow selvages in photo.
413	Felsic gneiss, medium-light gray, medium-grained, biotite gneiss.
414	Amphibolite dike ~1 m thick, dark greenish-gray, coarse-grained, cutting gneiss.
415	Amphibolite dike, medium-grained, dark-gray, from a homogeneous layer 0.6 m thick. Near contact with volcanics so it may be a xenolith in host gneisses. Several like this, look like dikes.
416	Amphibolite, dark-gray, fine-grained, from a layered section.
417	Felsic gneiss, hornblende, light-medium gray, medium-grained, sparse garnets.
418	Amphibolite, dark greenish-gray, coarse grained, plagioclase porphyry. From a layer meters thick.
419	Amphibolite, medium-gray, medium-grained with some biotite. 30 cm thick homogeneous layer in very layered section of mafic and intermediate rocks.
420	Felsic gneiss, light gray, medium-grained, matrix to abundant mafic xenoliths in photos. Garnet-bearing.

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(Table 2, continued)

Sample	Description
421	Amphibolite, coarse-grained, dark gray, relatively homogeneous layer of plagioclase porphyry many meters thick.
422	Hornblende dike cutting coarse gabbroic rocks of 421. Dark-gray, coarse-grained, essentially no foliation, strongly boudinaged into pods up to 0.6 m thick.
423	Felsic gneiss, light-gray, medium-grained, biotite with sparse garnets, from a layer 5 m thick between gabbroic rocks.
424	Amphibolite, dark greenish-gray, medium grained, relatively homogeneous layer ~1 m thick in layered section.
425	Amphibolite, dark-gray, medium-grained, very mafic. From boudin ~0.5 m thick in intrusion breccia section.
426	Felsic gneiss, coarse-grained, medium-gray, little deformed, from Kopperan summit.
427	Felsic gneiss, coarse-grained, medium-gray, little deformed, from Kopperan summit.
428	Felsic gneiss, medium-grained, medium-gray, little deformed, top of quarry at last road turn to summit.
429	Felsic gneiss, medium-grained, medium-gray, bottom of quarry at last road turn to summit.
430	Hornblende, very coarse-grained, greenish-black ultramafic rock in boudin
431	Felsic gneiss, medium-grained, medium-gray, massive with little foliation, from above a prominent shear zone.
432	Felsic gneiss, coarse-grained, medium-gray with prominent black and white streaks. From below the northernmost switchback
433	Felsic gneiss, medium-grained, medium-gray biotite gneiss, middle of this section of road between the switchbacks.
434	Felsic gneiss, medium to fine-grained, medium-gray biotite gneiss from below lower switchback.
435	Felsic gneiss, medium-grained, medium-gray tonalite gneiss.
436	Felsic gneiss, medium-grained, medium-gray hornblende–biotite gneiss.
437	Felsic gneiss, medium-grained, medium-gray hornblende–biotite gneiss, ~200 m below the stream from the swamp.
438	Felsic gneiss, coarse-grained, medium-gray, hornblende–biotite gneiss, low roadcut at rise in road ~1 km below stream from swamp.
439	Felsic gneiss, mylonitic, fine-grained with coarse plagioclase porphyroblasts.
440	Felsic gneiss, coarse-grained, mylonitic, light-gray biotite granodiorite gneiss, feldspar porphyroclasts up to 5 mm. Large allanite.
441	Felsic gneiss, coarse-grained, medium-gray biotite granodiorite gneiss, feldspar porphyroclasts up to 5 mm. Less muscovite and less mylonitic than 440.
442	Mafic dike, 0.7 m thick, medium-grained, greenish-black, biotite–chlorite–quartz, no hornblende recognized.
443	Felsic gneiss, very coarse-grained, light pinkish-gray biotite granodiorite gneiss, feldspar porphyroclasts up to 12 mm. Pervasive epidote.
444	Felsic gneiss, boulder in Almlia Conglomerate.
445	Felsic gneiss, boulder in Almlia Conglomerate.
446	Felsic gneiss, boulder in Almlia Conglomerate.
447	Felsic gneiss, coarse-grained, medium-gray, hornblende–biotite diorite, sparse mafic xenoliths.
448	Felsic gneiss, coarse-grained, medium-gray, hornblende–biotite diorite, sparse mafic xenoliths.
449	Xenolith, 7 meter block of volcanics (?), dark-greenish-gray, fine-grained (mostly), possible pillows, volcaniclastics, or small blocks.
450	Xenolith, small xenolith 4 cm thick, black, fine-grained.
451	Felsic gneiss, coarse-grained, medium-gray, hornblende–biotite diorite, sparse mafic xenoliths.
452	Felsic gneiss, coarse-grained, medium-gray, hornblende–biotite granodiorite.
453	Felsic gneiss, medium-grained, medium-gray, strongly biotite-streaked in plane of foliation.
454	Mafic xenolith in felsic gneiss, 0.5 m thick. Medium-grained, dark-gray.
455	Mafic xenolith in felsic gneiss, 0.5 m thick. Medium-grained, dark-gray, but not as mafic as 454.

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(Table 2, continued)

Sample	Description
456	Felsic gneiss, coarse-grained, medium-gray, , taken from a zone ~7 m thick relatively free of xenoliths, sampled as a partner for the xenoliths.
457	Felsic gneiss, medium-grained, light-gray with pinkish oxidation veins, more leucocratic than 453 and 456.
458	Felsic gneiss, medium-gray, medium-grained, typical gneiss in a relatively inclusion-free zone ~50 m N of contact with volcanics.
459	Amphibolite, medium-grained, medium-gray, biotite-rich, part of a mafic-rich layer ~15 m thick closer to the contact than sample 458.
460	Amphibolite, medium-grained, medium-gray, biotite-rich, part of a mafic-rich layer ~3 m thick still closer to the contact than sample 458 and 459.
461	Felsic gneiss dike cutting layered volcanics, 5 m S of sheared gneiss–volcanic contact. Medium-gray, medium-grained. Looks like the other sampled gneisses.
469	Felsic gneiss, medium-grained, medium-gray, hornblende–biotite–garnet tonalite.
470	Felsic gneiss, medium-grained, medium-gray, hornblende–biotite.
471	Felsic gneiss, medium-grained, medium-gray, hornblende–biotite tonalite.
481	Felsic gneiss, medium-grained, medium-gray, biotite–garnet–hornblende.
482	Felsic gneiss, medium pinkish-gray, coarse-grained, ~60' N of sample 481, from edge of rusty cliff on shore.
484	Felsic gneiss, medium to fine-grained, light pinkish-gray, leucocratic, 30 cm N of contact with Støren greenstone.
488	Felsic gneiss, medium-grained, medium-gray, sizable titanite and large allanite, N side of quarry.
489	Felsic gneiss, medium-grained, medium-gray, sizable titanite and large allanite, distributed epidote, W side of quarry.
490	Felsic gneiss, medium-grained, medium-gray, little titanite with moderate size allanite, distributed epidote, S side of quarry.
491	Felsic gneiss, medium-grained, medium-gray, sparse garnets, common titanite.
492	Felsic gneiss, medium-gray, medium-grained, lots of titanite and some allanite. Sample is from extreme N end of outcrop.
493	Felsic gneiss, medium-gray, medium-grained, lots of titanite and some allanite. Sample is from extreme S end of outcrop.
494	Felsic gneiss, medium to fine-grained, medium-gray, little to see besides quartz, biotite, and feldspar.
495	Felsic gneiss, medium to fine-grained, medium-gray, little to see besides quartz, biotite, and feldspar; tiny allanite.
496	Amphibolite, medium to fine-grained, medium to dark gray, hornblende–biotite dioritic.
497	Amphibolite, medium-grained, medium-gray, hornblende–biotite dioritic.
498	Felsic gneiss, coarse-grained, medium-gray, hornblende, titanite.
499	Amphibolite, coarse-grained, very dark gray, 10 cm thick homogeneous layer in a coarse gabbroic section, 7 m N of contact with Blåhø.
500	Amphibolite, medium-grained, very dark-gray, N of decaying wharf, S end of outcrop just above beach gravel.
501	Felsic gneiss, medium-grained, medium-gray, hornblende and small titanite, 5 m N of sample 500.
502	Felsic gneiss, light-gray, medium to fine-grained, from layers ~100 m N along the outcrop from sample 500.
503	Amphibolite, dark-gray, medium-grained, 0.6 m thick layer, W end of the quarry.
504	Felsic gneiss, light-gray, medium-grained, 0.6 m thick layer, biotite-bearing, middle of quarry.
505	Felsic gneiss, medium to fine-grained, medium-gray, hornblende–biotite–titanite.
506	Amphibolite, dark-gray, medium-grained.
507	Felsic gneiss, medium-grained, medium-gray, from between dikes, hornblende–biotite–allanite.
508	Felsic gneiss, medium to fine-grained, medium-gray.
509	Amphibolite, dark-gray, medium-grained.
510	Felsic gneiss, medium-grained, medium-gray.
511	Felsic gneiss, medium-grained, medium-gray, biotite–hornblende.

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(Table 2, continued)

Sample	Description
512	Felsic gneiss, coarse-grained, medium-gray, hornblende.
513	Felsic gneiss, medium-grained, medium to dark-gray.
514	Felsic gneiss, medium-grained, medium to dark-gray, hornblende–biotite–titanite.
515	Amphibolite, fine-grained, dark-gray, hornblende–biotite–titanite xenolith in sample 514 gneiss.
516	Amphibolite, dark-gray, medium-grained, hornblende–plagioclase rock.
517	Amphibolite, medium to dark-gray, medium-grained, hornblende–plagioclase rock.
518	Felsic gneiss, medium-grained, medium-gray, biotite.
519	Amphibolite, coarse-grained, dark greenish-gray gabbro.
520	Felsic gneiss, medium to fine-grained, medium-gray.
521	Felsic gneiss, medium to fine-grained, medium-gray.
522	Felsic gneiss, medium-gray, fine-grained and mylonitic, real mylonites here too.
523	Felsic gneiss, light-gray, medium-grained, biotite–titanite–allanite.
524	Felsic gneiss, medium-gray, medium-grained, biotite–titanite–allanite.
525	Felsic gneiss, medium-gray, medium-grained, biotite–titanite–allanite.
526	Felsic gneiss, light-greenish-gray, coarse to medium grained, muscovite–epidote gneiss probably with no biotite.
527	Felsic gneiss, medium-grained, medium greenish pink, perhaps with biotite.
528	Felsic gneiss, coarse-grained, medium pinkish green-gray, more biotite than 526 or 527.
531	Mafic layer in felsic gneiss, 14" thick, 100' N of gneiss contact.