



FOGO MAP AREA NEWFOUNDLAND

Scale 1:50 000 - Échelle 1:50 000

Universal Transverse Mercator Projection / Projection transversale universelle de Mercator

OS 44° 15' East Factor 1 / N.C. 54° 15' facteur d'échelle 1

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LEGEND

- Geological boundary (approximate)
Bedding, top unknown, overturned, upright
Strike and dip of cleavage
Strike and plunge of stretching lineation
Fault (inferred)
Strike and dip of dyke
Strike and dip of igneous layering
Glacial striae
Local locality
Anticlinal axis, synclinal axis

- LATE SILURIAN AND DEVONIAN
FOGO BATHTHOLIT (Sb) (no age relations implied by order)
SDga Course grained amphibole-biotite granite and granodiorite
SDgf Feldspar porphyry, biotite, microgranite, rhyolite
SDgd Homogeneous diorite, quartz diorite, monzonitoid, syenite locally layered, abundant hydrotization and mixing textures
SDgm Gabro and rhyolite, locally layered, syenitoidic basalt dykes
SDgc Agranite of granite or diorite with sedimentary blocks

- SILURIAN
BOTWOOD GROUP (Sb)
SBS BRISTOLHEAD FORMATION: rhyolite gneissite, crystal tuff, minor sandstone and grey-green siltstone, rhyolite sill
SBF FOGO HARBOUR FORMATION: grey-green siltstone and brown ripple-marked sandstone, numerous sulfidaceous beds
SBL LAWRENCETON FORMATION: basalt flow and tuff, rhyolite, minor brown sandstone and grey-green siltstone

- ORDOVICIAN AND SILURIAN
BADGER GROUP (OS)
OSBc Polymict conglomerate with granite and chert clasts, turbiditic greywacke interbedded 'Spitzkoppe' conglomerate
OSBg Turbiditic greywacke to shale rhythmites, minor conglomerate 'Sarsene greywacke'

- ORDOVICIAN
EXPLOITS GROUP (Oe)
OEB CHARLES COVE FORMATION: saussuritized feldspar porphyritic rhyolite, minor black shale
SILURIAN (units south of the Dog Bay Line)
SD DUGER COMPLEX: tectonic mélange of gabbro, basalt and sedimentary blocks in a shallow-grooved, isoclinal matrix
SIC INDIAN ISLANDS GROUP (Sb)
SDa DUGER COMPLEX: tectonic mélange of gabbro, basalt and sedimentary blocks in a shallow-grooved, isoclinal matrix

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DESCRIPTIVE NOTES

Fogo map area contains the northeastern termination of the Appalachian orogen in North America. The map area covers Fogo Island, the Fogo Islands, Change Islands, Indian Islands, a number of small islands and rocks, and a small part of the Point Albert Peninsula around Forward Harbour. Visually continuous, but very unevenly distributed outcrops of the Fogo Batholith occur in the map area, or else up to a centimetre diameter. Felsic and porphyry (SDg) also occur in a continuous zone extending from Cape Fogo to the west side of the island and comprising granite from diorite. This zone contains about 60 percent of the volume. Minor segregations occur as part of the batholith, and the granite and gabbro may form up to 2 percent of the volume. Minor segregations occur as part of the batholith, and the granite and gabbro may form up to 2 percent of the volume. Minor segregations occur as part of the batholith, and the granite and gabbro may form up to 2 percent of the volume.

DESCRIPTION OF FORMATIONS
Fogo Batholith (map unit Sdg)
The Fogo Batholith is a massive felsic pluton, composed of coarse-grained granite, quartz diorite, monzonite, syenite, and gabbro. It is the largest and most prominent feature of the map area. The batholith is composed of several distinct units, including the Fogo Batholith proper, the Fogo Batholith extension, and the Fogo Batholith extension. The Fogo Batholith proper is a massive felsic pluton, composed of coarse-grained granite, quartz diorite, monzonite, syenite, and gabbro. It is the largest and most prominent feature of the map area. The batholith is composed of several distinct units, including the Fogo Batholith proper, the Fogo Batholith extension, and the Fogo Batholith extension.

Badger Group (map unit OS)
The Badger Group is a sequence of Silurian rocks, including the Bristolhead Formation, the Fogo Harbour Formation, and the Lawrenceton Formation. The Bristolhead Formation is a rhyolite gneissite, crystal tuff, minor sandstone and grey-green siltstone, rhyolite sill. The Fogo Harbour Formation is a grey-green siltstone and brown ripple-marked sandstone, numerous sulfidaceous beds. The Lawrenceton Formation is a basalt flow and tuff, rhyolite, minor brown sandstone and grey-green siltstone.

Indian Islands Group (map unit Sb)
The Indian Islands Group is a sequence of Silurian rocks, including the Duger Complex and the Indian Islands Group. The Duger Complex is a tectonic mélange of gabbro, basalt and sedimentary blocks in a shallow-grooved, isoclinal matrix. The Indian Islands Group is a sequence of Silurian rocks, including the Duger Complex and the Indian Islands Group.

Duger Complex (map unit SD)
The Duger Complex is a tectonic mélange of gabbro, basalt and sedimentary blocks in a shallow-grooved, isoclinal matrix. It is a prominent feature of the map area, and is composed of several distinct units, including the Duger Complex proper, the Duger Complex extension, and the Duger Complex extension.

Change Islands (map unit OS)
The Change Islands are a sequence of Silurian rocks, including the Bristolhead Formation, the Fogo Harbour Formation, and the Lawrenceton Formation. The Bristolhead Formation is a rhyolite gneissite, crystal tuff, minor sandstone and grey-green siltstone, rhyolite sill. The Fogo Harbour Formation is a grey-green siltstone and brown ripple-marked sandstone, numerous sulfidaceous beds. The Lawrenceton Formation is a basalt flow and tuff, rhyolite, minor brown sandstone and grey-green siltstone.

Islands (map unit OS)
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DOG BAY LINE
The Dog Bay Line is a geological boundary that separates the Silurian rocks from the Devonian rocks. It is a prominent feature of the map area, and is composed of several distinct units, including the Dog Bay Line proper, the Dog Bay Line extension, and the Dog Bay Line extension.

Hamilton Sound
Hamilton Sound is a body of water located to the south of the map area. It is a prominent feature of the map area, and is composed of several distinct units, including the Hamilton Sound proper, the Hamilton Sound extension, and the Hamilton Sound extension.

Geological compilation and interpretation by K.L. Curran, (1996)
Digital cartography by J.D. Nieraway, Geological Information Division
Electrostatic plot produced by the Geological Information Division
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Table with 3 columns: Easting (2614, 2616, 2618), Northing (2611, 2613, 2615, 2617, 2619), and File Number (OF 3151, OF 3468, OF 3147, OF 3162). Includes a note: 'Copies of the topographical editions covering this map area may be obtained from the Census Map Office, Natural Resources Canada, Ottawa, Canada, K1A 0P9'.

OPEN FILE DOSSIER PUBLIC 3466. GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA. OTTAWA 04/1997. Recommended citation: Curran, K.L., and Nieraway, J.D., 1997. Geology of the Fogo map area, Newfoundland (NTS 2 E9 and 2 E8) and part of the Geological Survey of Canada, Open File 3466. Scale 1:50 000.