# LEGEND

## MAIN PART OF MAP

CENOZOIC

QUATERNARY

Q — *Gravel, sand, silt and mud.*

PALEOZOIC

TERTIARY (PALEOCENE)

TCL — *CAPE LAWRENCE FORMATION: interbedded conglomerate, sedimentary breccia and sandstone; conglomerate, thick-bedded to massive, boulder to granule grade, clasts of limestone, dolostone, and minor sandstone; weathers reddish brown.*

UPPER CRETACEOUS (TURONIAN TO CAMPANIAN)

KK — *KANGUK FORMATION: grey-weathering, poorly consolidated mudrock.*

LOWER CRETACEOUS (ALBIAN)

KC — *CHRISTOPHER FORMATION: black, poorly consolidated mudrock.*

LOWER CRETACEOUS (BARREMIAN AND APTIAN)

KI — *ISACHSEN FORMATION: white-weathering, cross-stratified, poorly consolidated sandstone.*

UPPER SILURIAN AND LOWER DEVONIAN

SDE — *EIDS FORMATION: mudrock interbedded with minor sandstone and limestone; mudrock, calcareous, silty and sandy, thin-bedded, weathers light grey; sandstone, fine-grained, thin-bedded, weathers dusky yellow-grey; limestone silty, fossiliferous and bioturbated; weathers yellow-grey.*

SDGF — *GOOSE FIORD FORMATION, upper member: limestone, dark grey, silty or sandy, fossiliferous lime mudstone and wackestone, minor sandstone in upper part, member weathers resistant; lower member: grey-green, calcareous shale and/or silty limestone; member weathers recessive.*

UPPER SILURIAN (LUDLOW)

SDO — *DOURO FORMATION: grey argillaceous limestone; lime mudstone and fossiliferous wackestone; weathers rubbly; minor sandstone interbeds.*

SCS — *CAPE STORM FORMATION: medium-bedded dolostone and minor interbedded sandstone; dolostone fine-crystalline, silty and sandy, calcareous; sandstone silty, calcareous, thin-bedded; formation weathers yellow and recessive.*

UPPER ORDOVICIAN TO UPPER SILURIAN (ASHGILL TO LUDLOW)

OSA — *ALLEN BAY FORMATION, upper member: thick-bedded limestone, lime mudstone and minor wackestone; member weathers very resistant; middle member: variable dolostone; dolomudstone, wackestone, lesser coral-microbial boundstone and intraclast conglomerate; lower member: thick-bedded limestone; wackestone and packstone with burrow mottles.*

MIDDLE AND UPPER ORDOVICIAN (CARADOC AND ASHGILL)

OCTI — *IRENE BAY AND THUMB MOUNTAIN FORMATIONS (part of Cornwallis Group), IRENE BAY FORMATION: argillaceous, nodular limestone; lime mudstone and wackestone, medium-bedded, fossiliferous, nodular; weathers recessive, grey-green; THUMB MOUNTAIN FORMATION: thick-bedded to massive limestone; wacke and packstone, with burrow mottles, fossiliferous in upper part; weathers resistant, dark grey.*

MIDDLE ORDOVICIAN (ARENIG AND DARRIWILLIAN)

OCB — *BAY FIORD FORMATION (part of Cornwallis Group), upper part: medium-bedded dolostone; dolomudstone and dolosiltstone, laminae, mudcracks, weathers grey-green, resistant limestone unit at base of upper part; lower part: gypsum and anhydrite, interbedded with dolomudstone; formation weathers recessive.*

LOWER ORDOVICIAN (ARENIG)

OE — *ELEANOR RIVER FORMATION: thick-bedded limestone; lime mudstone and wackestone with burrow mottles; formation weathers resistant with moderately recessive middle part.*

LOWER ORDOVICIAN (TREMADOC)

OB — *BAUMANN FIORD FORMATION, upper member: interbedded dolostone and gypsum; laminated dolomudstone; middle member: limestone; skeletal grainstone and rudstone; lower member: interbedded gypsum and dolostone.*

OCE — *CHRISTIAN ELV FORMATION: interbedded limestone and dolostone; sandstone in upper part; limestone dolomitic, lime mudstone with burrow mottles, calcisiltite with laminae and minor flat-pebble conglomerate; locally abundant thrombolites; dolostone fine-crystalline; quartz sandstone white, fine-grained, thin-bedded.*

UPPER CAMBRIAN AND LOWER ORDOVICIAN

€OCC — *CAPE CLAY FORMATION: medium- to thick-bedded limestone; lime mudstone and skeletal wackestone with burrow mottles; dolomitic calcisiltite and minor flat-pebble conglomerate; thick-bedded stromatolitic boundstone; formation weathers very resistant.*

UPPER CAMBRIAN

€CF2 — *CASS FJORD FORMATION, middle and upper members: interbedded limestone and dolostone; thin-bedded thrombolitic and stromatolitic boundstone and abundant intraformational conglomerate; yellow, crossbedded sandstone in uppermost part; purple intervals in lower part; map unit weathers recessive.*

MIDDLE CAMBRIAN

€CFP — *CASS FJORD FORMATION, lower member (Parrish Glacier beds): interbedded limestone and dolostone; medium- and thick-bedded, burrow mottles, laminae, flat-pebble conglomerate; purple intervals; unit weathers moderately resistant.*

LOWER CAMBRIAN

€SB — *SCORESBY BAY FORMATION: thick-bedded dolostone; calcareous, medium-crystalline; some limestone in lower part; formation weathers yellow-orange and resistant.*

€KB — *KANE BASIN FORMATION: interbedded sandstone and siltstone; sandstone fine- to medium-grained, thin-bedded, laminated; minor mudstone in lower part; formation weathers distinctly dark and recessive.*

€DB — *DALLAS BUGT FORMATION: thick-bedded sandstone; fine- to medium-grained; minor conglomerate; formation weathers white-rusty, hematitic red and resistant.*

PROTEROZOIC

NEOPROTEROZOIC (VENDIAN)

VEB — *ELLA BAY FORMATION: dolostone and limestone; in upper part dolostone, coarse-crystalline, thick-bedded, weathers resistant; in lower part interbedded dolostone, laminated lime mudstone and sandy calcisiltite; some flat-pebble conglomerate and oncolites; locally red weathering.*

VKC — *KENNEDY CHANNEL FORMATION: interbedded siltstone and shale; laminated, black, white sheen on weathered surfaces, minor interbedded sandstone; formation weathers recessive.*

## BACHE PENINSULA AREA

PALEOCENE

TE — *EUREKA SOUND FORMATION: poorly consolidated sandstone; medium-grained, cross-stratified; interbedded with coal.*

## DOBBIN BAY SYNCLINE AND AREA NORTH

UPPER ORDOVICIAN AND SILURIAN, OR SILURIAN

OSur/Sur — *ALLEN BAY, CAPE STORM, DOURO AND GOOSE FIORD FORMATIONS undivided, reefal facies: limestone and dolostone interbedded; coral-microbial boundstone, stromatoporoid boundstone, megalodont rudstone, skeletal grainstone; includes reef-slope debris, allochthonous blocks and beds of finer material of coral-microbial boundstone interbedded with dark grey shale; reef-slope debris facies gradational to Cape Phillips Formation.*

UPPER ORDOVICIAN TO LOWER SILURIAN, OR SILURIAN

OSCP/SCP — *CAPE PHILLIPS FORMATION: limestone and shale interbedded; limestone argillaceous, thick- to thin-bedded, dark grey; weathers light grey, platy.*

UPPER ORDOVICIAN (ASHGILL)

OA — *ALLEN BAY FORMATION: thick-bedded limestone; grey, skeletal wackestone and packstone, dolomitic; intervals of nodular limestone in lower part.*

LOWER AND MIDDLE CAMBRIAN

€u — *Undivided Cambrian formations*
*CAPE WOOD FORMATION: interbedded limestone and dolostone; limestone dolomitic, thick-bedded; dolostone medium-crystalline, medium-bedded; minor flat-pebble conglomerate and sandstone; formation weathers light grey-yellow and accounts for about half of the thickness of the undivided Cambrian unit.*
*CAPE KENT FORMATION: thick-bedded dolostone; variably crystalline, weathers orange to brown.*
*POLICE POST FORMATION: medium-bedded dolostone; variably argillaceous and arenaceous; formation weathers recessive, dark and forms thin stratigraphic marker in the coastal cliffs.*
*CAPE INGERSOLL FORMATION: thick-bedded dolostone; medium- and coarse-crystalline; lower part of formation forms distinct ledge.*
*CAPE LEIPER FORMATION: medium- to thick-bedded dolostone, medium-crystalline, burrow mottles; rare flat-pebble conglomerate; formation weathers yellow-orange and resistant.*
*DALLAS BUGT FORMATION: medium- to thick-bedded sandstone, coarse-grained, conglomeratic, crossbedded; formation weathers pale yellow-orange.*

LOWER CAMBRIAN

€RA — *RAWLINGS BAY FORMATION: thick-bedded sandstone; medium-grained; minor conglomerate; formation weathers white-rusty, hematitic red and resistant.*

MESOPROTEROZOIC

SMITH SOUND GROUP

MPSS — *Thick-bedded quartz sandstone, medium-grained, pebbly, crossbedded; minor shale, algal and stromatolitic dolostone and quartz-pebble conglomerate; formation weathers red-brown; intruded by Neoproterozoic gabbro sills.*

PALEOPROTEROZOIC

Pg — *Undifferentiated granulite facies, plutonic and sedimentary gneisses, marble and granite.*

*Some features on this map have been projected to surface through younger cover of Quaternary sediments, glacier ice, and bodies of water.*

*Geological boundary (defined, approximate, assumed)*

*Bedding, top known (overturned, inclined, vertical, horizontal)* — 10 10

*Bedding, estimated from distance (overturned, inclined)* — 10

*Thrust fault (defined, approximate, assumed; teeth indicate upthrust side)*

*Fault, undetermined (defined, approximate; solid circle indicates downthrown side)*

*Anticline and syncline (defined, approximate; arrow indicates plunge)*

*Anticline and syncline overturned (defined, approximate)*

*Structure cross-section* — A1 A2

*Structure cross-section (Piepjohn et al., in press)*

*Occurrence of coal* — C