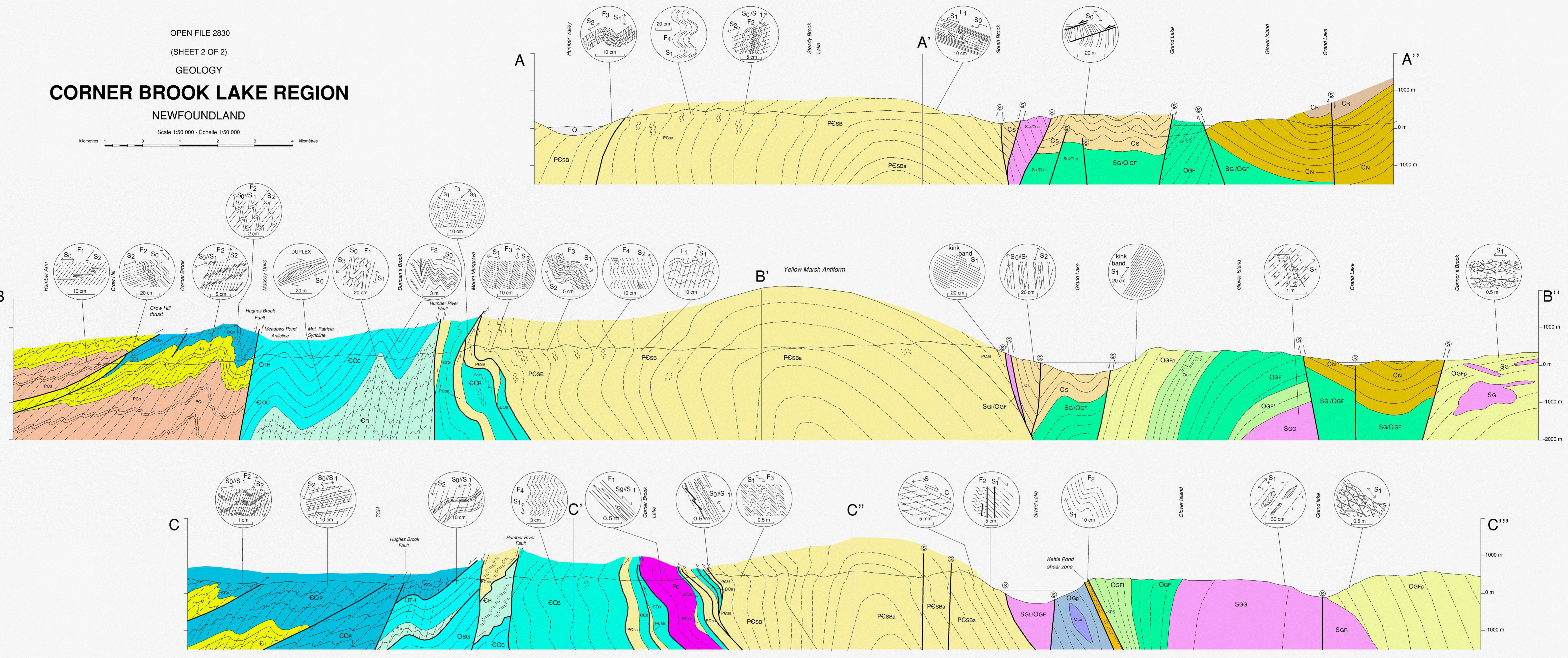


OPEN FILE 2830
(SHEET 2 OF 2)
GEOLOGY
CORNER BROOK LAKE REGION
NEWFOUNDLAND

Scale 1:50 000 - Échelle 1:50 000



LEGEND		COVER ROCKS	
CENOZOIC	QUATERNARY	Q	Gravel and glaciofluvial deposits: sand, silt, boulder clay, till
	CARBONIFEROUS (VISEAN)	DEER LAKE BASIN	
		CR	ROCKY BROOK FORMATION: red brown siltstone and mudstone with sandstone and oil shale
		CN	NORTH BROOK FORMATION: red brown siltstone and sandstone with pebble conglomerate and minor limestone
	CARBONIFEROUS (TOURNASIAN)	ANGUILLE GROUP	
		Cs	SALTWATER COVE FORMATION: grey sandstone and siltstone, black carbonaceous mudstone with minor conglomerate, limestone and dolostone
	SILURIAN	PLUTONIC ROCKS	
		Sg	Plutons intrusive into Dunnage Zone mafic igneous rocks; medium grained equigranular granodiorite with minor granite, gabbro and diorite; S ₀ , Glover Island Granodiorite; S ₁ , Red Indian Brook Granodiorite; S ₂ , Island Pond pluton; S ₃ , Little Puddle Point pluton
PALEOZOIC	DUNNAGE ZONE		
		KPS	Kettle Pond shear zone
		OgF	GLOVER FORMATION: mafic and silicic volcanic rock and high level intrusives with minor volcanoclastic sedimentary rock; O _{gF} , pillow lava and diabase; O _g , felsic and mafic volcanic rock
		Og/Og _g	GRAND LAKE COMPLEX: massive and layered gabbro, variably serpentinized and massed ultramafic rock, basal gneiss; trondhjemite and cross-cutting mafic dykes; O _g , gneiss; O _g , serpentinized ultramafic rock; O _g , gabbro
	OS	MATTHEWS BROOK SERPENTINITE: Serpentinized ultramafic rock with talc-carbonate and quartz-carbonate-luchite alteration; restricted to fault-bounded slivers in internal domain of Humber Zone	
PROTEROZOIC	HUMBER ZONE		
		HUMBER ARM ALLOCHTHON (EXTERNAL DOMAIN)	
	EARLY CAMBRIAN	E1	IRISHTOWN FORMATION: dark grey to black shale with buff to grey quartzite and pebble to boulder conglomerate
	LATE PROTEROZOIC TO EARLY CAMBRIAN	PCS	SUMMERSIDE FORMATION: red, green and grey sandstone, granule to pebble conglomerate and shale
PALEOZOIC	SLICES OF SEDIMENTARY ROCK AT BASE OF ALLOCHTHON		
		COF	PINCHGLUT FORMATION: thin bedded limestone and dolomitic mudstone, grey to green shale, pebble to boulder platy limestone conglomerate, and dark green sandstone; CO ₁ , predominantly limestone and limestone conglomerate
PALEOZOIC	TACONIAN AUTOCHTHON (EXTERNAL DOMAIN)		
		CARBONATE BELT	
	MIDDLE CAMBRIAN TO MIDDLE ORDOVICIAN	COc	PORT AU PORT, ST. GEORGE AND TABLE HEAD GROUPS: grey limestone and dolostone, minor shale; C ₀ -St. George Group, bedded dolostone and limestone; C ₁ H, Table Head Group bedded grey limestone
	LATE CAMBRIAN	CR	RELUCTANT HEAD FORMATION: thin bedded limestone, dolomitic mudstone, grey to green shale, and platy limestone conglomerate
		CRc	CRc, marble-rich sequence
PALEOZOIC	TACONIAN AUTOCHTHON (INTERNAL DOMAIN)		
		CORNER BROOK LAKE BELT	
	FLEUR DE LYS SUPERGROUP		
	?EARLY CAMBRIAN TO EARLY ORDOVICIAN	COB	BREECHES POND FORMATION: grey calcareous schist, calc-mica schist, mica and graphitic schist, marble and meta-limestone conglomerate; CO ₂ , marble-rich sequence
	LATE PROTEROZOIC TO EARLY CAMBRIAN	MOUNT MUSGRAVE GROUP	
		PCSB	SOUTH BROOK FORMATION: psammite and pelitic schist, quartzite, garnet schist, and minor marble, amphibolite and quartz pebble conglomerate; PC ₁ S ₁ , quartzofeldspathic schist and gneiss, minor pelite and amphibolite, with pervasive albite poqphroblasts, includes granitoid gneiss which is probably equivalent to P ₁ or P ₂
PROTEROZOIC	BASEMENT ROCKS		
		MIDDLE AND LATE PROTEROZOIC	PC

COOPERATION COOPERATION SUR L'EXPLOITATION MINÉRIALE / ENTENTE DE COOPÉRATION SUR L'EXPLOITATION MINÉRIALE

Contribution to Canada-Newfoundland Cooperation Agreement on Mineral Development (1990-1994), a subsidiary agreement under the Economic and Regional Development Agreement.

Contribution à l'Entente de coopération Canada-Terre-Neuve sur l'exploitation minière (1990-1994), entente auxiliaire négociée en vertu de l'Entente Canada-Terre-Neuve de développement économique et régional.

LITHOLOGIES IN DETAILED SKETCHES

- pegmatite
- granite (Sg)
- pillow basalt (OgF)
- pelite and psammite (PCSB)
- marble (PCSB)
- granule conglomerate to sandstone (PCSB)
- basement gneiss (PC)

SYMBOLS

- Geologic boundary
- Bedding
- Gneissosity in basement rocks
- Claivage or schistosity (in cross-sections)
- Claivage or schistosity (in sketches)
- Fault (sense of movement not determined)
- Thrust fault
- Fault with extensional component
- Fault with strike-slip component

Recommended citation:
Cawood, P.A., and Van Gool, J.A.M.
1994: Geology of the Corner Brook Lake region, Corner Brook, Newfoundland.
Geological Survey of Canada, Open File 2830, scale 1:50 000