COASTLINE GEOLOGY OF THE BADGER BAY-SEAL BAY AREA

NORTH CENTRAL NEWFOUNDLAND

BY K. DOUGLAS NELSON

Sops Head Fault

Julies Harbour Fault

Triton Island

Pretty Island

Burtons Head

Sugarloaf Island

Duck Island

Tommys Arm

Sops Head

Sops Arm

Herring Cove

Husseys Cove

Kay Island

Burtons Harbour

Badger Bay

Julies Harbour

Goat Island

Woody Point

Gull Island

Shoal Arm

Beaver Bight

Green Point

White Point

Pennys Brook

Wild Bight

Seal Bay Head

Wild Bight

Gull Island

Seal Bay

Lower Little Hbr.

Upper Little Hbr.

Side Harbour

Hook Point

Indian Cove

Sparrow Cove Point

Corner Point

Omega Point

Mill Cove

Leading Tickles

Thimble Head

Glovers Harbour

Locks Harbour

LITHOLOGIES

Roberts Arm Group

- ra1 mafic pillow lava
- ra2 black silty slate
- ra3 silicic volcanic

Sops Head Fault

Burtons Head Terrane

- bh1 mudstone congl., dismembered gwke. and slate, blocks in shaly matrix
- bh2 interbedded greywacke and slate
- bh3 black slate
- bh4 grey chert and cherty argillite
- bh5 red and green thin bedded cherts and slates
- bh6 green volcaniclastic sandstones, cherts, conglomerates
- bh7 mafic pillow lava and massive flows
- bh8 mafic volcanic breccia (agglomerate)
- bh9 silicic volcanic

Julies Harbour Fault

LITHOLOGIES

Julies Harbour Fault

Gull Island Formation

- gi interbedded greywacke and slate, thick bedded greywacke

Shoal Arm Formation

- ss1 graptolite bearing Caradocian black slate
- ss2 grey bioturbated chert and cherty argillite
- ss3 red and green thin bedded slates, cherts, and volcaniclastic sandstones

Wild Bight Group

- wb1 mafic pillow lava and massive flows
- wb2 mafic volcanic breccia (agglomerate)
- wb3 dominantly green volcaniclastic sandstone, lesser volcaniclastic cherts and conglomerates
- wb4 dominantly green volcaniclastic conglomerate, lesser volcaniclastic sandstones and cherts
- wb5 bright red slate
- wb6 purple silicic tuff breccia
- wb7 pale green silicic tuff breccia
- wb8 grey laminated silicic tuff (chert)
- wb9 red and green volcaniclastic sandstones and slates
- wb10 gabbro sills, dikes, plugs
- wb11 green quartz porphyry silicic volcanic
- wb12 black silty slate
- wbu undifferentiated green volcaniclastics and volcanics

STRUCTURE SYMBOLS

Bedding
- tops known
- tops unknown
- overturned

Slaty Cleavage
- inclined
- vertical

Transposition Fabric
- inclined
- vertical

Diabase Dikes
- inclined
- vertical

Lamprophyre Dikes
- inclined
- vertical

Folds
- anticline
- syncline
- multiple meso. folds

Fault

Lithologic Contact

Form Surface

Fossil Locality F

Outcrop

magnetic north 29° 05' true north

kilometers 0 1 2 3 4 5

INDEX MAP

Lushs Bight Group

Lobster Cove Fault

Sops Head Fault

Roberts Arm Group

Julies Harbour Fault

Exploits strata

I

II

kilometers 0 5 10

ra1 Sculpin Island

Woody Island

Green Island

Burnt Island

Alcock Island

Cull Island

Leading Tickles

revised after Heiwig 1967