Preliminary classification of carbonate breccias Newfoundland zinc mines, Daniel's Harbour, Newfoundland

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Zinc ore at Newfoundland Zinc Mines is stratabound in dolomites within the upper third of the Lower Ordovician Catoche Formation (St. George Group) of the Humber Zone in western Newfoundland. Five types of breccias associated with zinc ore are distinguished in a preliminary classification.

Intraformational breccias, stratabound units of the Aguathuna Formation, represent disconformities or early diagenetic dissolution surfaces associated with the transition from subtidal to supratidal lithofacies. **Fine rock matrix breccias** associated with pre-Middle Ordovician structural depressions are divided into two types: **Oligomictic breccias** - formed by stratbound dissolution and **polymictic breccias** - accumulated in vertical dilation openings along the margins of structural depressions. **White spar breccias** that host the zinc ore are characterized by open fracture and cavity systems filled with megacrystalline white dolomite. **True spar breccias** occur where strata are broken by faulting, veining, or dissolution. Elsewhere, **pseudobreccia** represents **in situ** replacement by white dolomite.