

BIBLIOGRAPHY

BERLINGUET INLET 47G

GENERAL REFERENCES

Canada, Department of Fisheries and Environment. 1970. *Pilot of Arctic Canada*. Vol. 1, 2nd Edition. Canadian Hydrographic Service, Ottawa.

Canada, Geological Survey. 1970. *Geology and Economic Minerals of Canada*. Economic Geology Report No. 1. Department of Energy, Mines and Resources, Ottawa.

Department of Indian Affairs and Northern Development. 1980. *The Lancaster Sound Region: 1980 - 2000*, Green Paper Draft. Perspectives and Issues on Resource Use. Preliminary Data Atlas. Prepared by the Working Group on the Lancaster Sound Regional Study. December 1980.

Freeman, M., Research Ltd. 1976. *Inuit Land Use and Occupancy Project*. 3 Vols. Prepared for the Department of Indian and Northern Affairs, Ottawa.

Rosenberg, Gertrude. 1979. *Current and Recent Research and Studies Relating to Northern Social Concerns*. Volume 11. NSRD 79-1. Northern Social Research Division. Department of Indian Affairs and Northern Development, Ottawa.

_____. 1978. North of 60. *Current and Recent Research and Studies Relating to Northern Social Concerns*. NSRD 78-1. Northern Social Research Division. Department of Indian Affairs and Northern Development, Ottawa.

Travel Arctic. *Explorers' Guide '79*. Yellowknife, N.W.T.

ECOLOGICAL OVERVIEW

Barnett, D.M., L.A. Dredge, and S.A. Edlund. 1976. Terrain inventory: Bathurst, Cornwallis, and adjacent islands, Northwest Territories, pp. 201-204 in: *Repts. of Activities, Part A, Geol. Surv. Can.*, Paper 76-1A. Energy, Mines and Resources, Ottawa.

Blackadar, R.G. 1965. *Geological Reconnaissance of the Precambrian of Northwestern Baffin Island, Northwest Territories*, Paper 64-42. Geological Survey of Canada. Department of Mines and Technical Surveys, Ottawa. pp. 1-11, 23.

_____. 1956. *Geological reconnaissance of Admiralty Inlet, Baffin Island, Arctic Archipelago, Northwest Territories*. Geological Survey of Canada. Paper 55-6. Department of Mines and Technical Surveys. 29p. and map and stratigraphic sections.

Blake, W., Jr. 1966. *End moraines and deglaciation chronology in Northern Canada with special reference to southern Baffin Island*. Geological Survey of Canada 66-26, Department of Mines and Technical Surveys, Ottawa. 31p. and map.

Canada Department of Transport. 1968. *Climatic normals: Vol. 1, Temperature; Vol. 2, Precipitation; Vol. 6, Frost Data*. Meteor. Br., Transp. Can., Toronto.

Canada Soil Survey Committee. 1978. *The Canadian System of Soil Classification*. Publ. 1646, Res. Br., Dept. Agric., Ottawa.

Canadian Hydrographic Service. 1980. *Canadian Tide and Current Tables, Vol. 4, Arctic and Hudson Bay*. Department of Fisheries and Oceans, Ottawa.

_____. 1978. *Sailing directions: Arctic Canada*. Supply and Services, Ottawa.

Conard, H.S. 1979. *How to know the mosses and liverworts* (2nd ed). Rev. by P.L. Redfearn, Jr. The Pictured Key Nature Ser., Wm. C. Brown Co. Publ., Dubuque, Iowa.

Hale, M.E. 1969. *How to know the lichens* (2nd ed). The Pictured Key Nature Ser., Wm. C. Brown Co. Publ. Dubuque, Iowa.

Lemon, R.R.H. and R.G. Blackadar. 1963. *Admiralty Inlet Area, Baffin Island, District of Franklin, Memoir 328*. Geological Survey of Canada. Department of Mines and Technical Surveys. Ottawa. pp. 1-6, 77-80.

Potvin, N. 1948. *Botany of the Canadian Eastern Arctic, Part III, Vegetation and ecology*, Bull. No. 104, Biol. Ser. No. 32, Nat. Mus. Can., Ottawa.

Porsild, A.E. 1957. *Illustrated flora of the Canadian Arctic Archipelago*. Bull. No. 146, Nat. Mus. Nat. Sci., Nat. Mus. Can., Ottawa.

Trettin, H.P. 1969. *Lower Palaeozoic sediments of northwestern Baffin Island, District of Franklin*. Geological Survey of Canada Bulletin 157, Department of Energy, Mines and Resources, Ottawa.

Way, D.S. 1973. *Terrain analysis: A guide to site selection using aerial photographic interpretation*. Chapter 1 (pp. 11-16), Landforms and aerial photographic terrain analysis. Community Development Series, Dowden, Hutchinson and Ross, Inc., Stroudsburg, Penn.

Wiken, E.B., T.W. Pierce, and G.R. Ironside. 1981. Multistage remote sensing in exploratory ecodistrict land classification, pp. 63-71 in: *Proceedings, 6th Canadian Symposium on Remote Sensing* (Halifax, N.S., 21-23 May 1980). Can. Centre for Remote Sensing. Energy, Mines and Resources, Ottawa.

WILDLIFE RESOURCES

Banfield, A.W.F. 1974. *The Mammals of Canada*. University of Toronto Press, Toronto.

Bartonik, J.C. and D.N. Nettleship. 1979. *Conservation of Marine Birds of Northern North America*. U.S. Fish and Wildlife Research Report No. 11, Washington, D.C.

Bellrose, F.C. 1976. *Ducks, Geese and Swans of North America*. Stackpole Books, Harrisburg, Pa., U.S.A.

Bissett, D. 1968. *Northern Baffin Island: An Area Economic Survey*. A.E.S.R. 67/1. Vol. I of the Lancaster Sound Survey. 1967, sections A and B. Industrial Division, Northern Administration Branch, Dept. of Indian Affairs and Northern Development, Ottawa.

Wildlife Resources (con't)

Boreal Institute for Northern Studies. 1975. *Canadian Arctic Renewable Resources Mapping Project*. Prepared for Inuit Tapirisat of Canada, Boreal Institute for Northern Studies, University of Alberta, Edmonton. 232 p. and map volume.

Boyd, D.H., R.K. Schmidt, W. Hayden, and I.W. Dickson. 1978. *Possible Effects of the Proposed Polar Gas Pipeline Project on Living Resource Use in the Eastern Arctic*. AIPP Preliminary Report 1977. ESCOM Report No. AI-02. Prepared for Environmental-Social Program, Northern Pipelines. Indian and Northern Affairs, Ottawa.

Bray, R. 1943. *Notes on the Birds of Southampton Island, Baffin Island and Melville Peninsula*. (With comments by T.H. Manning) *Auk*, Volume 60: 504-536.

Buchanan, R.A. and M.E. Renaud. 1978. *The Marine Ecology of Lancaster Sound and Adjacent Waters: An Annotated Bibliography*. Environmental Studies 7, North of 60. Indian and Northern Affairs, Ottawa.

Canadian Wildlife Service. 1980. *Critical, Sensitive and Unique Wildlife areas of the Open Tundra, Mainland and Forest-Tundra Transition Zone, and James Bay Portion of the Northwest Territories*. (in prep). C.W.S., Edmonton.

_____. 1972. *Arctic Ecology Map Series*. Prepared for Canadian Wildlife Service by Renewable Resources Consulting Services Ltd., Calgary, Alberta. 324 p. and 35 maps.

_____. 1966. Canadian Wildlife Service Brief. In: *Proceedings First International Scientific Meeting on Polar Bear*, University of Alaska, Fairbanks, 6-10 September 1965. U.S. Dept. of Interior, Bureau of Sport Fisheries and Wildlife (Resource Publication 16), and University of Alaska (International Conference Proceedings Series No. 1), pp. 9-15.

Davis, R.A., K.J. Finley and W.J. Richardson. 1978. *The Present Status and Future Management of Arctic Marine Mammals in Canada*. Draft, prepared for Science Advisory Board of the Northwest Territories, Yellowknife by L.G.L. Ltd., Environmental Research Associates, Toronto, Ontario.

Davis, R.A., C. Holdsworth and W.J. Richardson. 1973. *Present Ornithological Knowledge and Suggested Research Programs for the Polar Gas Pipeline Project*. Vols. 1 and 2. Prepared for Polar Gas Project by L.G.L. Ltd., Environmental Research Associates, Toronto, Ontario. 245 p. and map volume.

Dunbar, W.J. and D.M. Moore. 1978. *Marine Life and its Environment in the Canadian Eastern Arctic: A Biogeographic Study*. Unpublished report, Marine Sciences Centre, McGill University, Montreal, P.Q.

Elliot, R.C. 1976. *Caribou in Northern Baffin Island*. N.W.T. Wildlife Service Report. Manuscript Report.

Ellis, D.V. 1957. *Some Observations on Mammals in the Area between Coppermine and Pond Inlet, N.W.T., during 1954 and 1955*. *Canadian Field-Naturalist* 71: 1-6.

Fenco Consultants Ltd. 1979. *An Arctic Atlas: Background Information for Developing Marine Oil Spill Contingency Measures*. Arctic Marine Oil Spill Program Report EPS-9-EC-78-1. Fenco Consultants Ltd. and F.F. Slaney and Co. Ltd., Calgary. Fisheries and Environment Canada, Ottawa.

Finley, K.J. 1978. *Behaviour and Densities of Ringed Seals (Phoca hispida) During Haul Out in the High Arctic, June 1972*. Prepared for Polar Gas Project by L.G.L. Ltd., Environmental Research Associates, Toronto, Ontario.

Ford, J.K.B. and H.D. Fisher. 1978. *Underwater Acoustic Signals of the Narwhal (Monodon Monoceros)*. *Can. J. Zool.* 56(4): 552-560.

Freeman, M.M.R. (ed). 1976. *Inuit Land use and Occupancy Project*. 3 Vols. Volume One: Land Use and Occupancy. Volume Two: Supporting Studies. Volume Three: Land Use Atlas. Prepared by Milton Freeman Res. Ltd. for Indian and Northern Affairs, Ottawa. 287 and 263 p. and map volume.

_____. 1968. Ethnozoological Interpretation of the Browline in Arctic Caribou. *Arctic Circular* 18(3): 45-46.

Fyfe, R. 1969. *The Peregrine Falcon in Northern Canada*. In J.J. Hickey, (ed). *Peregrine Falcon populations: Their biology and decline*. Univ. of Wisconsin Press, Madison, Milwaukee. Chapter 8, pp. 101-113.

Godfrey, W.E. 1966. *The Birds of Canada*. Nat. Mus. Canada Bulletin No. 203.

Goodman, A. 1980. *Arctic Ecology series. Birds*. (Revised) (in prep).

Government of Canada. 1966. *Atlas of the Northwest Territories, Canada*. Advisory Committee on the Development of Government in the Northwest Territories, Ottawa. Vol. 1 (text) and Vol. 2 (atlas).

Harrington, C.R. 1968. *Denning Habits of the Polar Bear (Ursus maritimus) Phipps*. Report Series No. 5, Canadian Wildlife Service, Ottawa.

_____. 1966. Extralimital Occurrences of Walrus in the Canadian Arctic. *Journal of Mammalogy*, 47: 506-513.

_____. 1964. Polar Bears and Their Present Status. *Canadian Audubon Magazine* 26(1): 3-10.

_____. 1961. Some Data on the Polar Bear and Its Utilization in the Canadian Arctic. Canadian Wildlife Service, Ottawa. Unpublished report.

Hay, K. 1979. *Population Biology of the Narwhal (Monodon Monoceros L.) in the Eastern Canadian Arctic*. Ph.D. Thesis (in prep.), McGill University, Montreal.

Heyland, J.D. 1972(?). *Progress Report on Studies of Greater Snow Geese in the Eastern Canadian Arctic, July and August 1972*. Unpublished report, Quebec Wildlife Service. 9 p. and map.

_____. 1972(?) *The Distribution of Greater Snow Geese Banded in 1971 and Recaptured in 1972, Eastern Canadian Arctic, July and August, 1972*. Unpublished report, Quebec Wildlife Service. 26 p. and maps.

Hildebrand, H. 1948. *Marine Fish of Arctic Canada*. M.Sc. Thesis, McGill University, Montreal.

Holloway, C.W. 1970. *Threatened Vertebrates in Northern Circumpolar Regions*. In: W.A. Fuller and P.G. Kevan, (eds), *Proceedings of the conference on productivity and conservation in northern circumpolar lands*. Edmonton, I.U.C.N. Publication New Series No. 16, Morges, Switzerland. pp. 175-192.

Jonkel, C. 1976. *Lancaster Sound - Admiralty Inlet Polar Bear Studies*. Strathcona Sound Project. Canadian Wildlife Service unpublished report.

Jonkel, C., G.B. Kolenosky, R.J. Robertson and R.H. Russell. 1971. *Further Notes on Polar Bear Denning Habits*. In: S. Herrero, (ed), *Bears - their biology and management*, International Union for the Conservation of Nature and Natural Resources, Morges, Switzerland. Publication New Series No. 23, pp. 142-158.

Killian, H.P.L. and I. Stirling. 1978. *Observations on Overwintering Walrus in the Eastern Canadian High Arctic*. *Journal of Mammalogy* 59(1): 197-200.

Wildlife Resources (con't)

Lalli, C.M., R. Buchanan, D. Thomson and F. Wells, Jr. 1973. *Polar Gas Preliminary Environmental Study*. Marine Ecology Report. Unpublished report, Marine Sciences Centre, McGill University, Montreal.

Loughrey, A.G. 1956. *The Polar Bear and Its Protection*. *Oryx* 3(5): 233-239.

Macpherson, A.H. 1964. *A Northward Range Extension of the Red Fox in the Eastern Canadian Arctic*. *Journal of Mammalogy* 45: 138-140.

Mansfield, A.W. 1975. *Marine Ecology in Arctic Canada*. In: *Proceedings Circumpolar Conference on Northern Ecology*, September 15-18, 1975, Ottawa. National Research Council of Canada. Pp. 11 - 27-47.

_____. 1973. *The Atlantic Walrus (Odobenus Rosmarus) in Canada and Greenland*. In: *Seals, Proceedings Working Meeting Seal Specialists on Threatened and Depleted Seals of the World*, University of Guelph, 18-19 August 1972. IUCN Publication New Series, Supplementary Paper No. 39. pp. 69-79.

_____. 1970. *Population Dynamics and Exploitation of Some Arctic Seals*. In: M.W. Holdgate (ed). *Antarctic Ecology*, Vol. 1, Academic Press, London and New York. pp. 429-446.

_____. 1966. *The Walrus in Canada's Arctic*. *Can. Geog. J.* 72(3): 88-95.

McLaren, I.A. 1958. *The Economics of Seals in the Eastern Canadian Arctic*. Circular No. 1, Fisheries Research Board of Canada.

Milne, A.R. 1974. *Use of Artificial Subice Air Pockets by Wild Ringed Seals (Phoca hispida)*. *Can. J. Zool.* 52: 1092-1093.

Mitchell, E.D., M. McLaughlin and A. Filion. 1979. *Migration of Bowhead Whale (Balaena mysticetus) in Eastern Canadian Arctic Waters*. In: *Abstracts Third Biennial Conference of Biology of Marine Mammals*, October 7-11, 1979, Seattle, Washington.

Nettleship, D.N. 1973. *Canadian Seabird Research*. *Marine Pollution Bulletin* 4(4): 62-64.

_____. 1972. *Inter-relationships of Seabirds and the Coastal Zone. A Summary Report on Seabird Research*. In: *Coastal Zone, Proceedings of a Seminar at the Bedford Institute of Oceanography*, Dartmouth, Nova Scotia. Water Management Service, Dept. of the Environment, Ottawa. Volume 1. Selected Background Papers, pp. 133-136.

Petersen, N.M. 1974-1978. *Ecology of the Canadian Arctic Archipelago: Selected References*. Vol. 1 (1974), 425 p.; Vol. 2 (1974), pp. 426-846; Vol. 3 (1975), pp. 847-1304; Vol. 4 (1976), pp. 1305-1790; and Vol. 5 (1978), pp. 1791-2277. Dept. of Indian and Northern Affairs, Ottawa.

Petersen, R.L. 1966. *The Mammals of Eastern Canada*. Oxford University Press, Toronto, Ontario.

Petro Canada. 1979. *Initial Environmental Assessment, Proposed Baffin Bay Exploratory Drilling Program*. Petro Canada, Calgary, Alberta.

Reed, A., P. Dupuis, K. Fischer and J. Mosher. *An Aerial Survey of Breeding Geese and Other Wildlife in Foxe Basin and Northern Baffin Island, Northwest Territories, July 1979*. Progress Notes No. 114. Canadian Wildlife Service, Ottawa.

Rippen, B. 1972. *Baffin Island Caribou*. Unpublished report, N.W.T. Game Management Service, Yellowknife, N.W.T. 26 p. and maps.

Sergeant, D.E. and K. Hay. 1979. *Migratory Sea Mammals Populations in Lancaster Sound*. AIPP Report 1978. ESCOM Report No. AI-21, Environmental-Social Program, Northern Pipelines. Indian and Northern Affairs, Ottawa.

Smith, T.G. and D. Taylor. 1977. *Notes on Marine Mammal, Fox and Polar Bear Harvests in the Northwest Territories 1940 to 1972*. Technical Report No. 694, Fisheries and Marine Service, Dept. of Fisheries and Environment.

Snyder, L.L. 1957. *Arctic Birds of Canada*. University of Toronto Press, Toronto.

FISH RESOURCES

Bain, H. and A.D. Sekerak. 1978. *Aspects of the biology of Arctic cod Boreogadus saida, in the central Canadian Arctic*. Unpublished report by L.G.L. Ltd. for Polar Gas Project.

Bernier, J.E. 1912. *Report on the Dominion Government Expedition to the northern waters and Arctic archipelago of the D.G.S. Arctic in 1910*. Dept. of Marine and Fisheries.

Bissett, D. 1967. *Northern Baffin Island. An area economic survey*. Vol. 2 of the Northern Baffin Island Rept., Dept. Indian Affairs North. Develop. A.E.S.R. 67/1.

de March, L., B de March and W. Eddy. 1977. *Limnological, fisheries and stream zoobenthic studies of Samwell-Fletcher Lake, Canada*. Department of Indian and Northern Affairs-QS-8160-004-EE-A1. ESCOM Report AI-04.

Ellis, D.V. 1962. *Observations on the distribution of some Arctic Fish*. *Arctic* 15(3): 179-189.

Fallis, B.W. Pers. Comm., Fish Habitat Section, Canada Department of Fisheries and Oceans, Winnipeg.

Freeman, M. (ed). 1976. *Inuit Land Use and Occupancy Project*. Department of Indian and Northern Affairs, Ottawa. 3 Vols.

Hunter, J.G. 1970. *Production of Arctic char, Salvelinus alpinus (Linnaeus), in a small arctic lake*. Fish. Res. Bd. of Canada Tech. Rep. 321: 1-190.

Johnson, L. 1980. *The Arctic charr, Salvelinus alpinus, p. 15-98*. In E.K. Balon (ed). *Charrs-Salmonid fishes of the genus Salvelinus*. Vol. 1 of Perspectives in vertebrate science. Dr. W. Junk Publishers, The Hague, The Netherlands.

_____. 1976. *Ecology of Arctic populations of lake trout, Salvelinus namaycush, lake whitefish Coregonus clupeaformis, Arctic charr, S. alpinus, and associated species in unexploited lakes of the Canadian Northwest Territories*. *J. Fish. Res. Bd. Canada* 33(11): 2459-2488.

Kristofferson, A. pers. comm., Fisheries Management Section, Dept. of Fisheries and Oceans, Winnipeg, Manitoba.

Leim, A.H. and W.B. Scott. 1966. *Fishes of the Atlantic coast of Canada*. Fish. Res. Bd. Can. Bull. 155: 485.

Manual of Fisheries Acts and Regulations. 1980. Section 16: Northwest Territory fishery regulations. Department of Fisheries and Oceans, Ottawa.

McAllister, D.E. pers. comm., Ichthyology Unit, National Museum of Natural Sciences, Ottawa, Ontario.

Fish Resources (con't)

Milne, A.R. and B.D. Smiley. 1976. *Offshore Drilling in Lancaster Sound: Possible Environmental Hazards*. Inst. of Ocean. Sci., Department of Fisheries and Environment, Sidney, B.C.

Moore, J.W. 1975. *Reproductive biology of anadromous Arctic char, Salvelinus alpinus (L.)*, in the Cumberland Sound area of Baffin Island. *J. Fish. Biol.* 7: 143-151.

_____. 1975. *Distribution, movements, and mortality of anadromous Arctic char, Salvelinus alpinus L., in the Cumberland Sound area of Baffin Island*. *J. Fish. Biol.* 7: 339-348.

Moore, J.W. and I.A. Moore. 1974. *Food and growth of Arctic char, Salvelinus alpinus (L.)*, in the Cumberland Sound area of Baffin Island. *J. Fish. Biol.* 6: 79-92.

Reeves, R. 1980. *Jaws on ice*. *North-Nord* 27(1): 32-35.

Robinson, K.E. and D.E. McAllister. (in prep.). *Bibliography of the marine fishes of Arctic Canada 1771-1979*. National Museum of Canada. 114 manuscript pages.

Schindler, D.W., J. Kalff, H.E. Welch, G.J. Brunskill, H. Kling and N. Kritsch. 1974. *Eutrophication in the high arctic - Meretta Lake, Cornwallis Island (75°N lat.)*. *J. Fish. Res. Bd. Can.* 31: 647-662.

Scott, W.B., and E.J. Crossman. 1973. *Freshwater fishes of Canada*. Fish. Res. Bd. Canada Bull. 184.

HISTORICAL INFORMATION

Canadian Hydrographic Service. 1968. *Pilot of Arctic Canada*. Volume II. Marine Sciences Branch. Department of Energy, Mines and Resources, Ottawa.

Cooke, Alan, and Clive Holland. 1978. *The Exploration of Northern Canada 500 to 1920 A Chronology*. The Arctic History Press, Toronto.

Northern Research Division. 1975. *North of 60. Abstracts of Publications of the Northern Research Division*. DIAND.

R.C.M.P. Commissioner's Reports. *Historical Resources*. 1979. Deputy Commissioner, Yellowknife.

Verner, Coilie. 1972. *Cartographic Explorer's Maps of the Canadian Arctic 1818-1860*. Monograph No. 6. York University. Toronto.

coastal classification		
code	class and description	diagram(s)
		(not to scale)
Bc	CONTEMPORARY BEACH COMPLEX. High energy depositional environments, which are usually extensive. Spits, bars, lagoons, former beach ridges and storm beaches are common as are gravel forelands and raised beaches inland. Coarse sands and gravel are typical materials.	
Br	RAISED BEACH SEQUENCE. Sequences of beach ridges typically occurring on 5-10° slopes extending up to 2 km inland. Surface materials are gravel. Narrow contemporary beaches of low energy are ubiquitous. Wider beaches are classed as Bc.	
Ca	CLIFFS WITH NO TALUS. Precipitous rock slopes, that range from 65° slopes - to vertical - to often vertical, sometimes overhanging. The cliff face may include prominent rock ledges. The class has no beach and occurrence is very limited.	
Cb	CLIFFS WITH LESS THAN ONE-THIRD TALUS COVER. As class Ca, but with up to one-third of height covered by talus, free-fallen from the precipitous rock slope above. The talus itself may be of variable thickness, including only blankets or veneers on bedrock. Narrow (1-3 m) coarse gravel and boulder beaches are typical.	
Cc	CLIFFS WITH ONE-THIRD TO TWO-THIRDS TALUS COVER. As class Cb, with more talus.	
Cd	CLIFFS WITH MORE THAN TWO-THIRDS TALUS. As class Cb, but mostly talus covered. As talus approaches complete cover, this class grades into class Hc.	
Gl	GLACIER. Glacier ice which reaches the sea, and results in calving. Where the ice has retreated to leave a gravel plain, classes Ps or Pt take precedence. This class includes associated lateral moraines as bluffs of till with small gravel beaches. Classes Cb, Cc and Cd are normally found juxtaposed.	
Hc	COLLUVIAL HILLSLOPES. Smooth, sloping colluvium, typically undergoing sheet wash or solifluction, extending to narrow gravel beaches. This class occurs mostly in sheltered waters - exposure to significant wave action would quickly erode these materials and create beach or foreland conditions. This class grades into class Cd with increasing slope and class Hr with reducing extent.	
Hr	ROCKY HILLS. Mainly rock slopes, over 5-10°, which extend from over 50 m elevation. Pockets of colluvium and raised beaches are common, either reaching the sea or perched on the backshores. Small fans occur throughout, and give rise to narrow gravel beaches extending along shore. Small sections of precipitous rock slopes may also be present. Islands are common offshore.	
Pc	ROCKY PLAIN WITH LOW CLIFFS. These normally occur as low rock forelands in front of rocky hills or high cliffs with talus. These rock forelands range from 10's of metres to 1-2 km wide, and are typically several metres to 10's of metres high. Near vertical cliffs at the seaward end are common. Beaches of any kind are rare.	
Pm	MARINE PLAIN. Emergent marine deposits which are unmodified by wave action. Large tidal flats are common. This class appears to be very similar to Pt on air photos, and is distinguished by inference from inland terrain.	
Pr	ROCKY PLAIN. Rocky slopes of low elevation, are usually less than 50 metres, and of 5-10°. Colluvial pockets and fans occur occasionally, and narrow gravel beaches occur in their vicinity. This class grades into Hr with increasing elevations. Islands and reefs are common offshore.	
Ps	GRAVEL PLAIN AND SLOPING BACKSHORE. Forelands consist of unconsolidated sediments; usually fans, raised beaches or storm beach gravels. Gravel backshores have a slope of 5-10° and a narrow contemporary beach (except at storm beaches). This class grades into Br and Rt.	
Pt	TILL PLAIN. Similar to Pm in outward appearances; and is inferred from presence of till plain inland. Comprised of gently sloping submerged plains, with no beach activity, and a typically wide tidal zone. Occurs in sheltered waters.	
Rf	RIVER-MOUTH AND FLUVIAL COMPLEXES. Includes features associated with river-mouths; fans, deltas, estuaries, tidal flats, marshes, baymouth bars, spits, etc. Smaller fans grade into class Ps where isostatic rebound exceeds the streams debris supply, causing the fan to be raised and the stream to incise.	