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Bibliography of Greenland Cod, *Gadus ogac*, Richardson 1780-1992

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Bibliography of Greenland cod, Gadus ogac, Richardson 1780-1992.

by

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1.0 INTRODUCTION

Greenland cod, (Gadus ogac) is a northern gadoid that is found in inshore and coastal Arctic waters from West Greenland to east of Point Barrow in the Alaskan Beaufort Sea. Greenland cod tolerates low salinity and a wide range of temperatures, allowing it to inhabit the southerly islands of the Canadian Arctic Ocean and the eastern coast of Canada up to Ellesmere Island in the north. Isolated populations are found in the southern Gulf of St-Lawrence and points further south to Nova Scotia.

Greenland cod was frequently the attention of early northern explorers who often confused it with Atlantic cod (Gadus morhua) which has been for several centuries an important commercial species. Partly for this reason, numerous references in the historical literature speculate on the potential of a fishery in Arctic waters for Greenland cod. The importance of Greenland cod to the harvests of northern indigenous peoples is only sporadically documented. Although it is in many regions the dominant coastal marine species, in Canadian waters it is not harvested by native fishermen with the same regularity and intensity as the salmonid fishes. In West Greenland, the species has been exploited for centuries as a supply to the household and as supplementary food for sled dogs.

The biology of Greenland cod has been unevenly treated. It has served as one of the earliest models in biochemical studies that identified and isolated glycoproteins in fish body fluids. Glycoproteins are responsible for the low freezing point of the body fluids of fish. More recent studies have isolated the digestive enzyme trypsin from Greenland cod and have promoted its use in the processing of foods at low temperatures. Studies on the taxonomy of Greenland cod have raised an interesting discussion on its relation to other species of the genus Gadus. However, many aspects of the ecology of Greenland cod, including their reproduction, growth, feeding, movements, and inter-specific interactions with Atlantic cod have not been examined through most of its distribution. In composing this review, we noted the absence of behavioral studies.

Over the past 50 years Greenland cod has been periodically exploited in the commercial inshore Greenland fishery. Since 1973, their annual catch from West Greenland is estimated at 3000-7000 tonnes. In Greenland waters, the catches of Greenland cod have tended to increase when stocks of Atlantic cod were in decline. The current strength of the 1984 and 1985 year classes of Atlantic cod has corresponded with a decrease in landings of Greenland cod since 1987. During 1990 and 1991, the abundant year classes of Atlantic cod migrated to Iceland waters and no strong year classes for Atlantic cod have been noted since 1985. With the resulting decline in Atlantic cod stocks off West Greenland, it is expected that Greenland cod catches will improve.

Greenland cod fisheries have not been subjected to stock assessment in Canada and have only been subjected to an isolated and recent stock assessment in the Godthaab area of West Greenland. As access to northern resources improves and as northern economies develop in the face of increasing human populations, it will be necessary to improve our ability to assess the exploitable potential of Greenland cod. Given their importance in Arctic marine waters, we hope that this bibliography will help improve our access to information on this species.

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VARIOUS NAMES FOR THE GREENLAND COD:

Various scientific names for Gadus ogac Richardson used in the literature: Gadus ogac Richardson, 1836; Gadus barbatus (non L.) Fabricius, 1780; Gadus ovak Reinhardt, 1838; Gadus oqat Krøyer, 1847; Gadus ojac Gill, 1861; Gadus morhua ogac Svetovidov, 1944.

Various popular and Eskimo / Indian names for Gadus ogac used in the literature: Morrhua ductor (Fortin, 1866), ogac, Greenland cod, Rock cod, Tom-cod, Pilot codfish, Morue pilot, Pilot, Duffy, Fjordtorsk (= Inlet cod), Uvac, Uvak, Uvaq, Ugak, Ogak, Ugaq, Ugaq, Ugayak, Ugavik, ovak, o-wuk, ôarsuk, uugats.

3.0 ACKNOWLEDGEMENTS

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4.2 SUBJECT INDEX

4.2.1 Abundance:

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Smith 1981, Tåning 1938, Vanhöffen 1897, Vladykov 1933, 1945, Vladykov and McAllister 1961.

4.2.2 Anatomy and Morphology:

Ali et al. 1968, Bean 1879, Beretn. vedr. Grønl. 1909(1), Berubé 1986, Boulva 1970, 1972, Brinkmann 1975, Bøknæs et al. 1992, Christensen 1981, Cohen 1989, DeVries 1982, Dunbar 1947, Dunn 1989, Dunn and Beverly 1984, Dresel 1884, Fabricius 1780, Günther 1962, Hansen 1943, 1961, Hansen and Herman 1953, Hansen et al. 1975, Hansen et al. 1981, Hildebrand 1939, Hunter 1968, Härkönen 1986, Jeffers 1933, Jensen 1925, 1928(1, 2), 1948, Jordan and Evermann 1898, Jordan and Gilbert 1883, Kendall 1911, Kumlien 1879, Leim and Scott 1966, Lütken 1882, Markle 1982, Margolis and Arthur 1979, Markle 1989, McKenzie 1952, Muus et al. 1981, Nichols and Maxwell 1933, Nielsen 1991 (2 a+b), Nielsen 1992 (1), Nikol'skii 1957, Pfaff 1937, Poulsen et al. 1992, Reinhardt 1838, Renaud 1987, 1989(1), 1989(2), Renaud et al. 1986, Richardson 1836, Ryan 1979, Sandeman and Buchanan 1979, Schultz and Welander 1935, Scott 1952, Scott and Scott 1988, Smidt et al. 1992, Smith 1981, Smitt 1892-95, Squires et al. 1986(1), Svetovidov 1944, 1948, Vanhöffen 1897, Vladykov 1933, 1945, 1972, Vladykov et al. 1985, Walters 1953, 1955, Westrheim 1992, Williamson 1908.

4.2.3 Distribution:

Andersen, 1991, Andersen and Nielsen 1992 (2), Ames 1977(1), 1977(2), Anonymous 1954(1), 1963, 1964, Backus 1953, 1957, Bajkov 1975, Bergeron 1960, Ballantyne 1920, Bean 1879, Beretn. vedr. Grønl. 1909(1, 2), 1926, 1944, Bethune 1937, Brinkmann 1975, Boulva 1970, 1972, Caulkin 1937, Chaput 1981, Christensen 1981, Corkum and McGart 1981, Cornish 1912, Craig 1984, Davidsen 1984, DeVries 1982, Dollfus 1953, Drainville 1970, Dunbar 1963, 1965/1966, 1970, Dunbar and Hildebrand 1952, Dunbar and Moore 1980, Dunn and Beverly 1984, Ehrenbaum 1902, Ellis 1962, Gaston et al. 1985, Gill 1861, 1864(1), 1864(2), 1873, Gross et al. 1974, Grønlands Fiskeriundersøgelser 1962, 1977, 1980/1981, Günther 1862, Halkett 1913, Hansen 1937, 1943, 1949, 1951, 1961, Hansen and Herman 1953, Hansen et al. 1975, 1981, Harper 1961, Hew et al. 1981, Hildebrand 1939, 1948, Hinks 1943, Holm 1886, Horsted 1974, Hunter 1968, Hunter et al. 1980, 1984, Huntsman 1954, Huntsman et al. 1954, Jeffers 1933, Jensen 1909, 1925, 1926, 1928(1, 2), 1939, 1948, Jensen and Hansen 1931, Johansen 1953, Jordan and Evermann 1898, Jordan et al. 1930, Jørgensen and Yatsu 1987, Kabata 1960, Kendall 1909, Kotthaus and Krefft 1957, Kumlien 1879, Lacroix 1967, Lambert and Dodson 1982(1), Legendre 1961, Leim and Scott 1966, Lieberkind 1940, Low 1899, Lütken 1875, 1882, Makivik Corporation Research Department 1984, 1986, 1987, McAllister 1960(2), 1964, 1990, McAllister et al. 1987, McKenzie 1952, 1959, Melville et al 1915, Mikhail 1985, Mikhail and Welch 1989, Morin 1990, Morin and Dodson 1986, Morin et al. 1980, Muus et al. 1981, Nichols and Maxwell 1933, Nielsen 1991 (2 a+b), 1992 (1, 2), Nielsen and Whoriskey 1993, Nikol'skii 1954, 1957, Ochman and Dodson 1982, Pfaff 1937,

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4.2.4 Ecology:

Ali et al. 1968, Andersen 1991, Andersen and Nielsen 1992 (1, 2), Angantyr and Kapel 1990, Backus 1953, 1957, Berube 1986, Boulva 1970, 1972, Beretn. vedr. Grønland. 1909(1), Bushnell et al. 1992, Chaput 1981, Christensen 1981, Craig 1984, DeVries 1974, 1980, 1982, Drainville 1970, Dunbar 1963, 1966, 1970, Dunbar and Hildebrand 1952, Dunbar and Moore 1980, Edwards 1961, Fabricius 1780, Gordon et al. 1962, Grønlands Miljøundersøgelser and Grønlands Geologiske Undersøgelse 1988, Halkett 1913, Hansen 1937, 1961, Hansen 1982, Hansen and Herman 1953, Hansen et al. 1975, Hansen et al. 1981, Haard et al. 1982, Heu et al. 1991, Hildebrand 1948, Horsted 1974, Hew et al. 1981, Hunter 1968, Huntsman 1931, 1954, Huntsman et al. 1954, Jensen 1909, 1939, 1948, Jensen and Hansen 1931, Kapel and Angantyr 1989, Lambert and Dodson 1982(1, 2), Lassen 1982, Leim and Scott 1966, McAllister 1964, 1990, McKenzie 1959, Mikhail 1985, Mikhail and Welch 1989, Morin 1990, Morin et al. 1991, Morin et al. 1992, Morin and Dodson 1986, Morin et al. 1980, Muus et al. 1981, Nichols 1918, Nielsen 1991 (2 a+b), 1992 (1, 2), Nielsen and Whoriskey 1993, Ochman and Dodson 1982, O'Grady et al. 1982, Rehbein 1987, Renaud 1987, Richardson 1836, Scholander and Van Dam 1957, Scholander et al. 1957, Scott 1952, Scott and Scott 1988, Simpson 1984, Simpson and Haard 1984(1, 2, 3), Simpson et al. 1989, Smidt 1975, 1989, Smith 1981, Squires et al. 1986(1, 2), Steffensen et al. 1992, Templeman and Fleming 1965, Van Voorhies et al. 1978, Vladykov 1933, 1944, 1946, 1972, Vladykov and McAllister 1961, Walters 1955, Whoriskey and Brown 1988, Wille and Kampp 1983.

4.2.5 Fishery:

Ames 1977(1, 2), Anonymous 1964, Backus 1957, Borovkov and Serebryakov 1991, Beretn. vedr. Grønland. 1909(1, 2), 1917, 1919(1, 2), 1944, Berkes 1979, Brinkmann 1975, Bøknæs et al. 1992, Chaput 1981, Dunbar 1970, Edwards 1961, Grønlands Fiskeriundersøgelser 1962, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980/1981, Hansen 1935, 1937, 1943, 1951, 1961, 1962, Hansen and Herman 1953, Hansen et al. 1975, 1981, Hildebrand 1948, Horsted 1970, 1974, Hunter 1968, Huntsman 1931, Huntsman et al. 1954, Jensen 1909, 1925, 1928(2), Leim and Scott 1966, Low 1899, Makivik Corporation Research Department 1984, 1986, 1987, Mansfield 1977, McAllister 1964, McKenzie 1952, 1959, Mikhail and Welch 1989, Morin 1990, Muus et al. 1981, Nielsen 1991 (1, 2 a+b), 1992 (1), Pfaff

1937, Poulsen et al. 1992, Power and LeJeune 1976, Reinhardt et al. 1857, Renaud 1987, Rink 1857, 1877, Roth 1988, 1989, Ryan 1979, Sandeman and Buchanan 1979, Scott and Scott 1988, Schopka 1991, Smidt 1975, 1989, Smidt et al. 1992, Smith 1981, Svetovidov 1948, Vanhöffen 1897, Vladykov 1933, Vladykov and McAllister 1961, Wells et al. 1979, Whoriskey and Brown 1988.

4.2.6 Food and Feeding habits:

Andersen 1991, Andersen and Nielsen 1992 (1), Beretn. vedr. Grønl. 1909(1, 2), Bigelow and Schroeder 1963, Boulva 1970, 1972, Bushnell et al. 1992, Chaput 1981, Craig 1984, Davidsen 1984, Edwards 1961, Ellis 1962, Fabricius 1780, Hansen 1961, Haard et al. 1982, Heu et al. 1991, Hunter 1968, Jensen 1909, 1948, Johansen 1925, Køie 1985, Leim and Scott 1966, Makivik Corporation Research Department 1984, 1986, Mikhail 1985, Morin 1990, Morin and Dodson 1986, Muus et al. 1981, Nielsen 1991 (2 a+b), 1992 (1), Nielsen and Whoriskey 1993, Rehbein 1987, Richardson 1836, Scott and Scott 1988, Simpson 1984, Simpson and Haard 1984(1, 2, 3), Simpson et al. 1989, Smith 1981, Squires et al. 1986(1), Steffensen et al. 1992, Svetovidov 1948, Vladykov 1933, 1972, Weiz 1866, Whoriskey and Brown 1988.

4.2.7 Growth:

Beretn. vedr. Grønl. 1909(1, 2), 1926, 1936, 1940, 1944, Boulva 1970, Bøknæs et al. 1992, Chaput 1981, Davidsen 1984, Dresel 1884, Dunbar 1970, Edwards 1961, Fabricius 1780, Hansen 1937, 1943, 1961, Hansen and Herman 1953, Hunter 1968, Härkönen 1986, Jensen 1909, 1925, 1928(1, 2), 1948, Leim and Scott 1966, Makivik Corporation Research Department 1984, 1986, McKenzie 1952, Mikhail 1985, Mikhail and Welch 1989, Morin 1990, Morin and Dodson 1986, Muus et al. 1981, Nielsen 1991 (1), Nielsen 1991 (2 a+b), 1992 (1, 2), Nielsen and Whoriskey 1993, Poulsen et al. 1992, Renaud 1987, Rink 1857, Ryan 1979, Sandeman and Buchanan 1979, Scott 1952, Smidt et al. 1992, Smith 1981, Stearns 1884, Vanhöffen 1897, Vladykov 1933, Walters 1953, 1955, Whoriskey and Brown 1988.

4.2.8 Migration:

Andersen 1991, Andersen and Nielsen 1992 (2), Beretn. vedr. Grønl. 1909(2), Boulva 1970, Chaput 1981, Craig 1984, Davidsen 1984, Edwards 1961, Hansen 1961, Hildebrand 1948, Huntsman et al. 1954, Jeffers 1933, Jensen 1909, Jensen and Hansen 1931, Lambert and Dodson 1982(1), Mikhail 1985, Mikhail and Welch 1989, Morin 1990, Morin and Dodson 1986, Nielsen 1991 (2 a+b), 1992 (1), Nielsen and Whoriskey 1993, Ochman and Dodson 1982, Scott 1952, Schopka 1991, Svetovidov 1948, Templeman et al. 1976.

4.2.9 Parasites:

Berubé 1986, Brinkmann 1975, Bøknæs et al. 1992, Ditlevsen 1914, Dollfus 1953, Hansen 1923, Kabata 1960, Køie 1985, Levinsen 1881, Margolis and Arthur 1979, Nielsen 1991 (1, 2 a+b), 1992 (1, 2), Poulsen et al. 1992, Reno and Nicholson 1981, Ryan 1979, Scott 1952, Scott and Scott 1988, Sherman and Wise 1961, Shostak et al. 1986, Templeman et al. 1976, Wardle 1932, Zschokke 1904.

4.2.10 Physiology and Biochemistry:

Ali et al. 1968, Beretn. vedr. Grønl. 1964, Bushnell et al. 1992, Bøknæs et al. 1992, Chaput 1981, Cohen 1989, DeVries 1974, 1980, Dunbar 1963, Grønlands Fiskeriundersøgelser 1963, Grønlands Miljøundersøgelser and Grønlands Geologiske Undersøgelse 1988, Hansen 1982, Haard et al. 1982, Heu et al. 1991, Hew et al. 1981, Mikhail 1985, Mikhail and Welch 1989, Morin 1990, Nielsen 1991 (2 a+b), 1992 (1), Nielsen and Whoriskey 1993, O'Grady et al. 1982, Oehlenschläger 1990, Poulsen et al. 1992, Rehbein 1987, Renaud 1989(1), 1989(2), Renaud et al. 1986, Reno and Nicholson 1981, Ryan 1979, Scholander and Van Dam 1957, Scholander et al. 1957, Sick 1965, Simpson 1984, Simpson and Haard 1984(1, 2, 3), Simpson et al. 1989, Squires et al. 1986(1, 2), Steffensen et al. 1993, Templeman and Fleming 1965, Van Voorhies et al. 1978, Westrheim 1992, Whoriskey and Brown 1988.

4.2.11 Reproduction and Development:

Anonymous 1964, Beretn. vedr. Grønl. 1926, 1936, 1960, Cohen 1989, Davidsen 1984, Dunbar 1947, 1970, Dunn and Beverly 1984, Fabricius 1780, Grønlands Fiskeriundersøgelser 1959, 1960, Hansen 1937, 1961, 1949, 1968, Hansen and Herman 1953, Hildebrand 1948, Huntsman et al. 1954, Jensen 1925, 1926, 1948, Jensen et al. 1992, Lambert and Dodson 1982(1), Leim and Scott 1966, Markle 1982, Mikhail 1985, Mikhail and Welch 1989, Morin 1990, Morin and Dodson 1986, Muus et al. 1981, Nielsen 1991 (2 a+b), 1992 (1), Ochman and Dodson 1982, Renaud 1987, 1989(1, 2), Richardson 1836, Rink 1857, Scott and Scott 1988, Smidt et al. 1992, Smith 1981, Svetovidov 1948, Vladykov 1933, 1972, Vladykov et al. 1985, Walters 1955, Westrheim 1992, Whoriskey and Brown 1988.

4.2.12 Taxonomy:

Backus 1957, Bean 1879, Beretn. vedr. Grønl. 1909(1, 2), 1960, 1964, Boulva 1970, 1972, Buchanan and Foy 1980, Chaput 1981, Christensen 1981, Cohen 1989, Drainville 1970, Dresel 1884, Dunbar 1947, Dunn 1989, Dunn and Beverly 1984, Ehrenbaum 1902, Fabricius 1780, Gill 1861, 1864(1, 2), 1873, Günther 1862, Halkett 1913, Hansen 1923, Hansen 1949, 1961, Hansen and Herman 1953, Hansen et al. 1975, Hansen et al. 1981, Hildebrand 1939, 1948, Hunter 1968, Huntsman et al. 1954, Härkönen 1986, Jeffers 1933, Jensen 1909, 1925, 1948, Jordan and

Evermann 1898, Jordan and Gilbert 1883, Kotthaus and Krefft 1957, Kumlien 1879, Leim and Scott 1966, Lütken 1875, 1882, Markle 1982, 1989, McAllister 1990, McAllister et al. 1987, Muus et al. 1981, Nichols and Maxwell 1933, Nielsen 1991 (2 a+b), 1992 (1), Nikol'skii 1954, 1957, Reinhardt 1838, Reinhardt et al. 1857, Renaud 1987, 1989(1, 2), Renaud et al. 1986, Richardson 1836, 1837, Sandeman and Buchanan 1979, Schultz and Welander 1935, Scott 1952, Scott and Scott 1988, Sick 1965, Smidt et al. 1992, Smith 1981, Smitt 1892-95, Svetovidov 1944, 1948, Vanhöffen 1897, Vladykov 1933, 1945, 1972, Vladykov et al. 1985, Walters 1955, Westrheim 1992, Williamson 1908.