

The Quaternary record of eastern Svalbard – an overview

JON Y. LANDVIK, CHRISTIAN HJØRT, JAN MÅNGERUD, PER MØLLER and OTTO SALVIGSEN



Landvik, J. Y., Hjort, C., Mangerud, J., Møller, P. & Salvigsen, O. 1995. The Quaternary record of eastern Svalbard – an overview. *Polar Research* 14(2), 95–105.

The eastern part of the Svalbard archipelago and the adjacent areas of the Barents Sea were subject to extensive erosion during the Late Weichselian glaciation. Small remnants of older sediment successions have been preserved on Edgeøya, whereas a more complete succession on Kongøya contains sediments from two different ice-free periods, both probably older than the Early Weichselian. Ice movement indicators in the region suggest that the Late Weichselian ice radiated from a centre east of Kong Karls Land. On Bjørnøya, on the edge of the Barents Shelf, the lack of raised shorelines or glacial stripes from the east indicates that the western parts of the ice sheet were thin during the Late Weichselian. The deglaciation of Edgeøya and Bjørnøya occurred ca 10,500 BP as a response to calving of the marine-based portion of the ice sheet. Atlantic water, which does not much influence the coasts of eastern Svalbard today, penetrated the northwestern Barents Sea shortly after the deglaciation. At that time, the coastal environment was characterised by extensive longshore sediment transport and deposition of spits at the mouths of shallow palaeo-fjords.

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Introduction

The Quaternary geology of the Svalbard archipelago (Fig. 1) has been the subject of extensive research during the last three decades. The investigations have concentrated in particular on the largest island, Spitsbergen (Fig. 2), and models have been developed for the Late Quaternary glaciations (Boulton 1979; Miller 1982; Landvik et al. 1992a; Mangerud & Svendsen 1992), glacio-isostatic rebound (Schytt et al. 1968; Forman 1990; Forman et al. 1993) and the Holocene marine conditions of both Svalbard and the adjacent seas (Salvigsen et al. 1992). However, due to the more difficult accessibility, less progress has been made in understanding the Quaternary geology of the eastern islands of the archipelago such as Edgeøya, Bjørnøya and Kong Karls Land (Fig. 2). These islands, however, are critical for the understanding of the geology of the northern Barents Sea, and their geological history is fundamental for the development of regional models.

As a result of both the PONAM programme (Polar North Atlantic Margins, Late Cenozoic Evolution) and hydrocarbon exploration in the Barents Sea, renewed interest has been expressed in the Quaternary geology of the sea floor and

the surrounding land mass. Thus, the eastern islands of the Svalbard archipelago can now contribute towards an integrated understanding of the Quaternary development along a profile from the central Barents Sea to the continental shelf west of Svalbard. In this paper we summarise the main results obtained from the PONAM expeditions to Edgeøya, Bjørnøya, Kongøya and Hjørnøya, and use the new data to compare and modify the present models of the Quaternary history of Svalbard and the Barents Sea.

The Late Quaternary record

The pre-Late Weichselian

Sediments which record the Late Quaternary ice growth and decay have been preserved in several sections on Spitsbergen (Boulton 1979; Troitsky et al. 1979; Miller 1982; Miller et al. 1989; Landvik et al. 1992a; Mangerud & Svendsen 1992; Mangerud et al. 1992) and an updated glaciation curve for the last interglacial/glacial cycle of Svalbard and the northern Barents Sea was recently suggested by Mangerud et al. (1996), based on correlation of the different sediment successions.

Quaternary Record In The Tyrrhenian Io

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web what are the major roles plants and animals play in the food web a producers consumers and decomposers b composers

consumers and reproducers c consumers scavengers and parasites 2 which of these is not a producer a leopard b fern c eucalyptus tree 3 what do you call an animal that eats both plants and meat

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web the food chain gizmo shows a food chain with hawks snakes rabbits and grass in this simulation the hawks eat snakes the snakes eat rabbits and the rabbits eat grass producers are organisms that do not need to eat other organisms to obtain energy consumers must eat other organisms for energy which organisms are consumers in

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web food chain the sequence of transfers of matter and energy in the form of food from organism to organism population a group of individuals of the same species living and interbreeding within a given area

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web dec 16 2020 doc preview student exploration food chain directions follow the instructions to go through the simulation respond to the questions and prompts in the orange boxes vocabulary consumer ecosystem energy pyramid equilibrium food chain population predator prey producer prior knowledge questions do these before

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web interactive labs lessons food web step 1 first you ll run a less than real life scenario choose only one organism from each trophic level and make sure that the food chain goes in a straight line from one trophic level to the next i e herbivore a eats plant a omnivore a eats herbivore a and the top predator eats omnivore a

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web a food chain is represented below text phytoplankton longrightarrow text krill longrightarrow text mackerel

longrightarrow text sea gull phytoplankton krill mackerel sea gull which of the following organisms is correctly paired with

its role in the food chain choose 1 answer sea gull tertiary consumer a

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web skittles food chain organism picture cards calculator 3 clear plastic containers follow the directions in bold answer the questions in the space provided each skittle represents one unit of concentration of methylmercury from the background section of this assignment define the bold terms bioaccumulation biomagnification toxin

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web summary a food chain is an organized series of living things linked together by an alimentary food related relationship animals draw the energy needed for survival from their food at the base of such a chain one finds the producers these are terrestrial plants or aquatic ones algae phytoplankton

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web study with quizlet and memorize flashcards containing terms like if a disease strikes the snake population in the food chain shown what will be the initial effect on the populations of hawks and rabbits in the stable food chain shown below what would you expect to happen initially if you were to suddenly double the population of rabbits

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web a food webs b food chains what is a food chain represents a single pathway by which energy and matter flow through an ecosystem according to the musical summary of food chains a what will serve as a foundation for a living food chain every single calorie in the ocean hills and plains b what is at the bottom of food chains

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