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**Title:** *Uncommon hunting and scavenging behaviour of polar bears during the summer months on Spitsbergen*

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During the summer many polar bears (*Ursus maritimus*) are forced onto land due to melting of the sea ice, which limits their access to seals. The observations of polar bears in Hornsund (SW Spitsbergen) and Magdalenefjorden (NW Spitsbergen) suggest increasing exploration of terrestrial food sources and/or scavenging behaviour. Polar bears were observed catching black guillemot (*Cephus grylle*) in the sea in Magdalenefjorden and feeding on chicks in the arctic tern (*Sterna paradisica*) colony in Hornsund. On another occasion a polar bear was rafting and scavenging on fin whale (*Balaenoptera physalus*) floating for several days in Magdalenefjorden. In the same fjord, long-lasting but unsuccessful chasing of adult reindeer (*Rangifer tarandus*) by polar bear was observed both on land and in the sea. While observations of scavenging on floating whale carcass and feeding on seabird species, both in the sea and in the colony are not surprising, the prolonged chasing of adult reindeer is astonishing and quite novel in polar bear hunting repertoire. There have been very few documented cases of polar bear hunting reindeers, consisting of either surprising and killing resting/sleeping victims or stalking and short rapid chasing the reindeer. Our observations describe unknown feeding habits of polar bear in response of decreasing seal availability due to shrinking sea-ice cover in the Arctic.