

NORSK POLARINSTITUTT
SKRIFTER NR. 126

ADOLF HOEL AND JOHANNES NORVIK
GLACIOLOGICAL BIBLIOGRAPHY
OF NORWAY



NORSK POLARINSTITUTT
OSLO 1962

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Short account of the publications of Norsk Polarinstittutt

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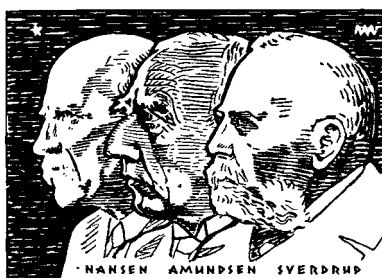
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PREFACE

The aim of the present bibliography is to render a list of the more important works concerning glaciers in Norway and in the arctic regions under Norwegian sovereignty. It has been worked out in connection with the work on the paper: «Glaciers and snowfields in Norway», Norsk Polar-institutt Skrifter Nr. 114. The costs of the work, the translation, the printing etc. have been covered by different contributions. A list of the contributors is to be found in the above mentioned paper.

The bibliography is restricted to papers of scientific importance. Many accounts of glacier traverses and ascents, written by mountaineers, may be of interest from a tourist's point of view but such narratives generally fall outside the frame of the present publication. Obviously, it will be difficult to fix a limit. As a rule, accounts older than about 1870 have generally been included, even if their claim to a scientific value is doubtful. As a matter of fact, the mental attitude of the public concerning mountains in general and glaciers in special, has changed profoundly during the 19th century. One hundred years ago such landscapes were considered desolate and terrifying, but nowadays the scenery is esteemed to be grand. But the inclusion of articles relating to this change in general sentiment would unduly swell the bibliography. Accounts of glacier climbing can be found in the year-books of the various tourist associations.

The papers and articles have been arranged in three different lists. First the papers are listed chronologically, with the relevant details as completely as possible. An asterisk before the name of an author, or before the year of publication means that the compilers of the bibliography have not personally seen the work in question.

Then follows a section, with the papers arranged as to the regions described. First comes a list of publications of a more general character, in so far as matter relative to Norway has been included. Many papers deal with glaciers in various parts of the country; such publications have been collected under three headings: One group, for the whole of Norway, one for Northern Norway, one for Southern Norway.

This arrangement has been made in order to save place. In this regional grouping, only the names of the authors, the titles, and the years of publication, have been given.

Lastly, a list of authors is given, arranged in alphabetical and chrono-

logical order. The Scandinavian titles have been translated into English and are shown in square brackets.

The abbreviations are conform to «*A world list of scientific Periodicals*» published in 1900–1933, but in a somewhat modified form. The said list uses: Z for Zeitschrift, here Zeitschr., J for Journal, here Journ., T. for Tome, B. for Band, here we use Tome, Bd. Vol.

Literature upon avalanches is not included in this bibliography. The comprehensive work of *Amund Helland: «Norges Land og Folk»*, contains ample information on this subject.

A. PAPERS ARRANGED CHRONOLOGICALLY

1202—1213

KARL JÓNSSON: *Sverris Saga* (written between 1202 and 1213). A military expedition over Jostedalbreen to Nordfjord in 1197: Um vǫrit eptir fóru þeir Nikulás byskup ok Sigurdr Jarlsson upp á Heiðmǫrk. Þá gerðu þeir lið um fjall norðr, ok kom ofan i firði þeim er heitir Áldi inn frá Rugsundi. þar drápu þeir sýslumenn Sverris konungs þ þri dara ok Einar lygru ok sveit við þeim. Fóru Baglar aptr síðan til Upplanda ok pótust hafa vel gengit [In the following spring Bishop Nikulás and Sigurd Jarlsson went up to Hedmark. Then they sent a force over the northern (i. e. western) mountains, who came down in the fjord that is called Olden, inland from Rugsund. There they killed the district judges of King Sverre, Thore Dari and Einar Lygra, together with their followers. The Baglers after that went back to Oppland, and thought themselves to have had success]. — Ed. C. R. Unger. Chr. a. 1873. Chapter 131 (132, 133). P. 137.

The party must have crossed the glacier along the Rau dal-Sundal route, as this is the easiest one from Gudbrandsdal.

Also in Fornmannasögur VIII, Eirspennill and in the Flatey-book.

c. 1220

Speculum regale. Konungs skuggsjá, [The Royal Mirror.] On the origin of ice mountains: þar eru ok sumir þeir isar i því hafi, er med öðrum vexti eru, er Grönlendingar kalla falljökla. þeirra voxtr er eptir því sem hátt fjall standi upp or hafinu, ok blandask eyvitar vid aðra isa [There is also ice of a different shape, which the Greenlanders call falljökla (i. e. calved glacier ice). In appearance these resemble high mountains rising out of the sea. They never mingle with other ice].. — Konungs skuggjá, ed. R. Keyser, P. A. Munch and C. R. Unger. Chr. a. 1848. P. 40. Compare Weber. Heinrich, 1898.

1594

Tungøyane. Map. from 1954 showing the farm Tungøyane in Olden, Nordfjord. This farm was entirely destroyed through the advance of Abrekkebreen in the years 1728—1732. — Det Norske Geogr. Selsk. Aarb. 1907—1908. Kr.a. P. 155—156 Heading of the article: To gamle Karter [Two old maps].

The map also in Bjørnbo & Petersen: *Anecdota Geographica Septentrionalia*, Copenhagen 1908.

1613

FRIIS, PEDER CLAUSSØN: Om Quindhærrit oc Fuglesand [On the parish Kvinnherad and Folgefonni], in his: *Norriges Bescriuelse*, written 1613. *Samlede Skrifter*, ed. Gustav Storm, Chr.a. 1882. LXXXIII, 493 p.

Presumably the first time Folgefonni (Fuglesand) is mentioned in the literature p. 332–333. Jockle-field (Hardangerjøkulen), p. 333.

1650

BLAEU, JOHANNES: Spitsberga. — Text pp. 21–23 in vol. 1 of *Atlas major*, Amsterdam, 1662. Col. fold. map of West Spitsbergen.

«The finest old engraved map of Spitsbergen» (Conway).

Several «Ysbergs» marked. See Wieder, F. C.: *The Dutch Discovery and Mapping of Spitsbergen (1596–1829)*, Antwerpen 1919, map no. 127, pl. 23. See also *Place-names of Svalbard*, 1942, p. 491.

BLAEU, JOHANNES: *Insulæ Ian Majanæ descriptio* 2 p.

Col. fold. map: *Insula quæ a Joanne Mayen nomen sortita est*.

Supposedly in the above mentioned *Atlas major*.

1675

MARTENS, FRIEDRICH: See *The Seven Icebergs*, 1671 etc. — — — 1675. *The Seven Icebergs* (in) Martens, Friedrich: *Spitsbergische oder Groenlandische Reise Beschreibung gethan im Jahr 1671*. Hamburg 1675. 115 p. Reprint Berlin 1923.

Folded engravings.

«Eisberge», die sieben Eisberge, p. 19, glaciers in Magdalena Bay p. 21.

Transl. into Italian: *Viaggio di Spitzberga o' Gronlanda*. Bologna 1680.

Transl. into English: *Voyage into Spitzbergen and Greenland*. London 1694–95. Reprint 1855.

Transl. into French: *Journal d'un Voyage au Spitzbergen et au Groenlandt* 1671. Amsterdam 1715.

1680

The Seven Icebergs (in) *Viaggio di Spitzberga o' Gronlanda fatto da Federico Martens, Amburghese l'Anno 1671*. Portato nuonamente dalla lingua Alemana dal Sig Iacopo Rautenfels, Gentiluomo Curlandesso. Bologna 1680. 264 p.

2 folded engravings.

«Monti di ghiaccio», «sette gran Montagne di ghiaccio» [Icebergs, *The Seven Icebergs*]. P. 53–54. Glacier in Magdalena Bay, p. 58–59.

1689

Jan Mayen Eylant: De nord-west hoeck van — — — [transl. John Mayen Island, the Northwest Corner]. 1689. 2 p.

Ill. of Beeren Bergh.

1694–95

The Seven Icebergs (in) Martens, Friedrich: Voyage into Spitzbergen and Greenland. London 1694–95. Reprint: Hakluyt Society. London 1855. 174 p.

«Seven large Ice-mountains», p. 18–19. A. Snow-hill in Magdalena Bay, p. 21–22.

1715

RASMUS, JONAS: *Norriges Beskrivelse* [Description of Norway]. København. 274 p.

Det Field Fuglefang (Folgeforni) p. 24. Crossing prohibited from Aug. 24th to May 3rd, p. 133.

1728–32

Glacier advance in Nordfjord in the 18th century. Tungøyane and Åbrekke farms partially devastated — Nordfjord Thingbog A 27 for 1728–30. Pp. 43 b–46 a. — Nordfjord Sorenskriveries Thingprotocol, authoriseret den 17 October 1732. P. 177–179.

Included in J. Rekstad: *Iagttagelser fra bræer i Sogn og Nordfjord*. — Norges Geol. Unders. Bd. 34. Kr.a. 1902.

1739

DASS, PETTER: *Helgelands Beskrivelse* [Description of Helgeland, Northern Norway] in his: *Nordlands Trompet*. — Chr.a. 1739 (written about 1700). P. 69–80.

Svartisen: p. 79–80.

1742

Glacier advance (c. 1742) in Sogn in the 18th century. Tverbre had advanced and damaged the farm Berset. Indre Sogn Thing- and Justits-protocol (No. 37, Fol. 175).

In the Court of Justice two old men stated that the Tverbre in their youth could be seen high up in the Tufteskard. Since then the glacier had steadily advanced. See C. Bohr: *Om Iisbræerne i Jostedalen og om Lodals Kaabe*. — Blandinger, Bd. 1, 1820, p. 292. — Carl Fr. Naumann: *Beyträge zur Kenntnis Norwegens* 1824, p. 198–199. — P. A. Øyen: *Bidrag til vore bræegnes geografi*, *Nyt. Mag. Nat.* Bd. 37, 1900, p. 163. — Amund Helland: *Nordre Bergenhus Amt*, part. I 1901, p. 115 and 127.

1750

FOSS, MATTHIAS (parson in Jostedalen) and J. C. BERG: *Justedalens kortelige Beskrivelse* [A short description of J.] After the decease of the author edited by J. C. Berg in *Magazin for Danmarks og Norges oeconomske og statistiske Beskrivelse* by F. Thaarup. Vol. II. København 1802–1803. P. 1–42. (Written May 11th 1750).

Glaciers, p. 14–23, supposed to be increasing, p. 15–17. Decrease observed, p. 18. Very heavy iron sand from under the glaciers, much demanded in Bergen, used as blotting sand and for polishing of iron, p. 16. The «Aftagsforretning» in Krondal 1742, p. 18. [Reducing of ground tax in Court of Justice]. Traffic of pede-

strians and pack-horses on track Krondal-Kvamme in Olden, 2½ Norw. miles. Wooden posts show the course, cumbrous and dangerous. The course Fåberg-Greidung was easier, cairns. Great traffic every year. Bartering cattle, horses, oats, barley and herring against household tools, p. 19 et seq.

Reprint in Tidsskr. Hist.laget Sogn. No. 13 Leikanger 1948. P. 200–224.

1752

PONTOPPIDAN, ERICH: Det første Forsøg paa [The first attempt on] Norges Naturlige Historie. 2 bd. Kiøbenhavn 388 + 464 p.

Map of Norway +- several copper-plates.

Vol. I, p. 45–46, speaks of an «Iisbrede» in Jostedalen that has destroyed some farms and is still threatening others.

The «Snee-Fond» in Quind-Herret (i. e. Folgefonna) is said to have covered a whole parish, p. 49. This glacier is called Fuglefang. At certain periods of the year travelling is prohibited, p. 70.

English issue: The Natural History of Norway, London 1755. A French one in Les Voyageurs modernes, Paris 1760.

1755

PONTOPPIDAN, ERICH: The Natural History of Norway. 2 parts, 206, XXIII; 291, VII p. London.

Transl. from Danish. 27 copper-plates, map of Norway.

Part. 1, sect. 15, tells of «Iisbredes» in Jostedalen, which have destroyed farms, p. 28–29, and of a whole parish having been buried beneath Folgefonna. This glacier is named Fuglefang. Crossing it only allowed from May 3rd to Aug. 24th, p. 43.

1758

Justedalsbreden kunde agtes som et Vand-Magazin [Jostedalsbreen might be considered as a water magazin – namely for irrigation]. – Danmarks og Norges Oecon. Mag., Bd. 2. Deel no. 13. Continuation af Oeconomiske, Physiske, og Historiske Anmerkninger over forekommende Merkværdigheder ved Lombs Præstegjeld (in Gudbrandsdalen). Kiøbenhavn. P. 287–90.

1 fold. plate showing tools for irrigation.

1759

Le Spitzberg: Description et propriétés du Spitzberg. – Histoire générale des Voyages. Tome 15. Paris. P. 268–301.

1 fold map facing p. 189 by de la Marme, 1758, showing «Montagnes de glace» in Wijde Bay, Hinlopen Strait, on New Friesland and on North-East Land.

Refers to Friedrich Martens.

Glaciers: Les sept Montagnes de glace, p. 269. Other glaciers, p. 270.

1762

STRØM, H.: Søndmørs Beskrivelse [A description of Sunnmøre, Western Norway]. — Kiøbenhavn. 2 B. Reprint, Aalesund 1906. 3 Bd. 541, 245, 365 p.

WIINGAARD, HANS and H. STRØM: Om Justedalens Sneebræ eller Iisbræ [The Névé or Glacier of Jostedal]. — Edited by H. Strøm in his Søndmørs Beskrivelse. — Bd. 1. Kiøbenhavn. P. 46–47. Reprint, Aalesund 1906. 64–65.

1769

Jan Mayen. Beschreibung der Insel Jean Mayen oder der Dreyeinigkeits-Insel. — Allg. Histor. der Reisen zu Wasser od. zu Lande — oder Sammlung aller Reisebeschreibungen. Bd. 19. Leipzig. P. 64–65.

Map of Jan Mayen.

Glaciers said to reach far into the sea on the eastern part of Beerenberg. Beerenberg covered with snow and ice. Transl. from Engl.

1774

The Seven Icebergs (in) Phipps, Constantine John (Lord Mulgrave), A Voyage towards the North Pole undertaken by His Majesty's Command 1773. — London. VIII, 254 p.

3 fold. maps, 10 fold. plates, some of which show glaciers, called Icebergs.

Remarks on Icebergs in Smeerenburg Bay, p. 70, and of the Seven I.

Also in: Pinkerton's Voyages and Travels, vol. 1, London 1802, p. 538–594. The glaciers in Smeerenburg Bay, p. 561. Transl. into French: Voyage à Pole Boréal, Paris 1775. Transl. into German by Mr. Engel: Reise nach dem Nordpol. Bern 1777.

1775

The Seven Icebergs (in) Martens Friedrich: Journal d'un Voyage au Spitzbergen et au Groenlandt 1671. Recuil de Voyages au Nord. Tome 2. Amsterdam. P. 20–35.

1. fold. map. of Arctic Regions. 1. fold. engraving showing glaciers. Remarks on «les sept grandes montagnes de glace», p. 24–25, 28, and on glaciers in Magdalena Bay, 28–29.

The Seven Icebergs (in) Phipps, Constantin-Jean: Voyage à Pole Boréal. Traduit de l'Anglais. — Paris. 260 p.

3 fold maps. 8 fold. engravings, 3 of which show glaciers.

Information on one of them, a glacier in Smeerenburg Bay, p. 67, 68. The Seven Icebergs mentioned.

1777

The Seven Icebergs (in) Phipps, C. J.: Reise nach dem Nordpol im Jahr 1773. — Aus dem Englischen mit Zusätzen und Anmerkungen von Herrn Landvogt Engel. Bern. 122 p.

5 fold. maps, 6 other fold. engravings.

Remarks about glaciers in Smeerenburg Bay and the Seven Icebergs, p. 61–62. Also in: *See-Reisen von Engländern auf dem Nordmeer. Auf Kosten der Topogr. Societät. Bern 1795. XII, 122 p.* 5 fold. maps, 6 fold. engravings.

1779

JONGE, NICOLAY (parson in Seeland, Denmark): *Chorographisk Beskrivelse over Kongeriget Norge* [Chorographical description of the Kingdom of Norway]. *Kjøbenhavn. 612 p.*

Glaciers: Fuglefang (i. e. Folgefonna) p. 255–256. Joklefield (i. e. Hardangerjökelen). Jostedalbræe, p. 260–261. Oscillation, Nyegaard in Mjølvedal devastated.

1781

OLAFSEN, O.: See Schnabel, Markus 1781.

SCHNABEL, MARKUS, H. STRØM and O. OLAFSEN: *Hardanger Beskrivelse* [Description of Hardanger] written about 1779. After the decease of the author, edited by H. Strøm. *Kjøbenhavn. 65 p.* Reprinted and amplified with particulars by O. Olafsen in *Hardanger Samlinger, Bd. 2. Norheimsund 1912. 109 p.*

1 fold. map of Hardanger, Voss and Sunnhordland.

Folgefonna p. 42 (45), Hardangerjökelen p. 39 (34). (The figures in the parentheses belong to the reprint.) Tell-tales of a buried parish.

STRØM, H.: See Schnabel, Markus 1781.

1782

DE PAGÈ: *Voyage vers le Pole du Nord, fait dans l'année 1776. (in his) Voyages autour du Monde. Tome 2. Paris. P. 117–272.*

Several fold. maps and ill. incl. a map of Spitsbergen.

Remarks on «montagnes de glace» on p. 158–160 (i. e. glaciers).

Transl. into Dutch: *Zee- en landreizen rondom the waereld . . . Rotterdam 1784.* Transl. into Germ.: *Reisen um die Welt . . . Frankfurt 1786.* Transl. into Engl.: *Travels round the World. London 1791.*

1784

STRØM, HANS: *Anmærkninger til Søndmørs Beskrivelse* [Remarks to the description of Sunnmøre, Southern Norway]. *Nye Samling af det Kgl. Norske Vidensk. Selskaps Skrifter. Bd. 1, Part V. Kjøbenhavn. P. 103–170.*

On «Snee-Bræer» [Glaciers], p. 111. Jostedalbræen, glacier water as fertilizer, p. 152.

1785

HJORTHØY, H. F.: *Physisk og økonomisk Beskrivelse over Gudbrandsdalens Provstie* [Physical and economical description of the Deanship of Gudbrandsdalen]. *Kjøbenhavn. 2. vol., 111, 166 p.*

1 fold. map of the deanship, engraving.

Jostedals Bræe, vol. 1, p. 17. Lom (parish): Track to Nordfjord over «store Sneebrædder», vol. 2, p. 48, 63.

Jostedalsbreen also called «Isberget» and «Sneebreen». Sniuhætten.

PONTOPPIDAN, C.: Geografisk Oplysning til Cartet over sydlige Norge [Geographical information to map of Southern Norway]. Kiøbenhavn. 298 p.

Om Fjeldene [On the mountains], p. 34–48. Snee-bræen eller den Store Snee-Bræe (i. e. Jostedalsbreen), p. 42, Jokulen og Fagrefaaen (i. e. Hardangerjøkelen and Folgefonni), p. 45.

1792

VAHL, MARTIN: Nogle Iagttagelser ved en Reise giennem Norge til dets nordlige Dele, 1787 [Some observations on a journey through Norway to the northern parts of her]. — Skrivter af Naturhistorie-Selskabet. Bd. 2. h. 1. Kiøbenhavn. P. 1–72.

Jostedalsbreen, p. 64–67. Oscillations mentioned. Glacier movements not thought probable.

1795

PONTOPPIDAN, C. I.: Geografisk Oplysning til Cartet over det Nordlige Norge [Geographical information to map of Northern Norway]. — Kiøbenhavn. 47 p.

Om Fieldene [On the mountains], p. 10–13. Oxfield mentioned, p. 11. Tannen eller Fonden Sneefield = Svartisen.

1795–96

SOMMERFELDT, CHRISTIAN: Efterretninger angaaende [Accounts of] *Christians Amt* (in) Top. Journ. Norge. Bd. 4. Christiania. 136, 72 p.

Ofsen [the waterflow in 1789]. «Gammel Snee smeltede i Fjeldene [Old snow melted in the moutains]». Deel 1, p. 28–30.

1796

BING, LARS HESS: Beskrivelse over Kongeriget Norge, Øerne Island og Færøerne, samt Grønland forfattet i alphabetisk orden [Description of the Kingdom of Norway, the isles Iceland and Feroes, together with Greenland written in alphabetical order]. — Kiøbenhavn. 892 p.

Justedal, p. 311–13. Sayings of glacier advance having devastated farms. «Fjeldet Fuglefang» (i. e. Folgefonni). See H. H. Bull's «Tillæg» [appendix] to the book. Copenhagen 1813.

Resettling of Jostedal after the Black Plague, from Nordfjord, p. 313.

1801–02

SKÖLDEBRAND, A. F.: Voyage pittoreque au Cap Nord. 60 plates with a special textbook. — Stockholm. The text-book 1805. 217 p.

He accompanied Guiseppe Acerbi to North Cape.

1 map.

Pl. 36: Glacier sur le monts Fiällen, donné et gravé par A. F. Skjöldebrand, Text-bok, p. 153. The glacier, apparently in the mountains south of Alta, is not named. In those regions there are no glaciers, but as Skj. travelled there in the spring he may have taken a vast snow patch for lasting snow and ice.

1803

BERG, J. C.: See Foss, Matthias, 1750.

1805

WIEL, IVAR: Beskrivelse over Ringerige og Hallingdal Fogderi [Description of the Shrivalty of Ringerike and Hallingdal]. — Topogr. Journ. Norge. Bd. 9.

Chapter § 167, Fjeldene i Hallingdal [The mountains in H.], speaks of *Skavlen*, which is 10 norw. miles long = c. 110 km. The skavl has many crevices, p. 124–125.

1808

WAHLENBERG, JÖRAN: Berättelse om Mätningar och Observationer för att bestämma Lappska Fjällens Höjd och Temperatur [Report on measurements and observations to determine the altitudes and temperature of the mountains in Northern Scandinavia]. — Stockholm. 58 p.

1 map. 3 ill. The report deals mostly with the Sulitjelma Glaciers and Salajekna. Wahlenberg determined the snow limit of the district and ascended the Almajalos. Also information from other districts, inter alia from Spitsbergen, where the highest peak is called Snöpic [Snowpeak], 4252 feet.

German transl., Göttingen 1812. Rev. in *Alp. Journ.*, vol. 7. London, p. 174.

1810

BUCH, LEOPOLD VON: Reise durch Norwegen und Lappland. 2 Bd. — Berlin. 486, 407 p. Maps.

Sinking of temperature and advance of glaciers, I, 364–370. Glaciers in Troms, I, 462–463, 472–473. *Strupebreen almost reaching the sea*. Snefieldt on Seiland, Jökulfjordbreen, Snöhetta.

Swedish edition 1814. French edition by J. B. B. Eyries, 1816.

Engl. edition by John Black, London 1813, Ill. maps.

1812

BUCH, LEOPOLD VON: Über die Grenzen des ewigen Schnees. — *Ann. der Phys.* Bd. 41. Leipzig. P. 1–52. Abbreviated Norwegian translation in *Budstikken*, 2. Aarg. No. 7–8, 11–12: Om den evige Snees Grændser i Norden. Chr.a. 1820–21. P. 49–64, 81–96. Notes by the translator.

WAHLENBERG, GEORG: Einiges zur physikalischen Erdbeschreibung von Lappland. *Ann. d. Physik.* Bd. 41. Leipzig. P. 233–325. Refers to v. Buch.

The mountains of the Norwegian-Swedish borderland never free from snow, p. 250 et seq. Snowlines. Glaciers, p. 252–256, 285. Sulitjelma, Lyngen, Jökelfjord, Seiland.

WAHLENBERG, GEORG: Bericht über Messungen und Beobachtungen zur Bestimmung der Höhe und Temperatur der Lappländischen Alpen.

Aus dem Schwedischen übersetzt und mit Anmerkungen begleitet von Joh. Friedr. Ludw. Hausmann, Göttingen. 61 p.

1 map of Lappland by Wahlenberg, 1 longitudinal section of a glacier, 3 copper-plates.

1813

BULL, H. G.: Tillæg og Rettelser til L. H. Bings Beskrivelse over Norge [Appendices and corrections to L. H. Bing's Description of Norway]. — Kiøbenhavn.

Refers on p. 44 to descriptions of Jostedalen by M. Foss and J. C. Berg of 1750 (1802). In Bing's description of Norway (1796) Jostedalen mentioned there p. 311.

KROGH, I. A.: Efterretninger om Provstiet Nordfjord i Bergens Stift i Norge [Accounts of the Deanship of Nordfjord in Bergen Diocese, Norway]. — Topogr. Stat. Saml. II. Deel. Bd. I. Chr.a. 290 p.

Jostedalsbræen, Blaabræen, p. 3. Crossing the glacier in one day, Olden—Jostedalen. Reduction of taxes because of snow-damage in the inner parts of the deanship, p. 80—89.

LAMOTTE, A.: Voyage dans le Nord de l'Europe. Promenades en Norwège et de quelque courses en Suède dans l'année 1807. — Londres, 244 p.

1 large fold. map of Southern Norway showing:

Folge Fonden, Sne-bræen (i. e. Jostedalsbreen) and Sne-Heutch (i. e. Snehetta), Snowy Top. Many ill. Excursion to «Snee-hutten» on Dovre (abregé peut-être de Snee-høiest-en), p. 55. See also frontispiece.

Transl. into Engl.: Travels in the North of Europe in 1807. London 1813. See also Francis Bull: Dovre i sagn og digtning, Den Norske Turistf. Årb. 1923, Kr.a. 1923, p. 62—78. A picture from Lamotte facing p. 69.

SMITH, CHRISTEN: Nogle Iagttagelser, især over Iisfjeldene, paa en Fjeldreise i Norge 1812 [Some observations, especially of the glaciers, made during a mountain tour in Norway, 1812]. — Top. Stat. Samml. Deel 2. Bd. 2 Chr.a. P. 1—62. Udgivne av Selsk. Norges Vel, Bd. II, 2. Chr. 1817.

Folgefonni, p. 30—48. The Suldal Glaciers, p. 26, 30. «Cold holes», p. 26. Supposed connection with snow-fields. The buried parish in Folgedal, p. 44—48. About Bondhusbreen he says: «A more beautiful contrast of colours than here cannot, be imagined, between the milk-coloured lake, the coal-black rocks, the white-shining torrents, the green birch wood, the bluish ice and some of the snow-masses of the Folgefonn». Hardangerjøkelen, p. 39. The bishops of Bergen had to cross this jøkel, he says. Jostedalsbreen, p. 48 et seq.

1814

BUCH, LEOPOLD VON: Resa genom Norrige i åren 1806, 1807 och 1808. [A Journey through Norway during the years 1806, 1807 and 1808]. Stockholm. 417 p.

1815

LAING, JOHN: Account of a Voyage to Spitsbergen. London. 171 p. Glaciers, p. 75—76. They «far surpassed those of Switzerland». Reprint Edinburgh 1818, 165 p. Glaciers, p. 55—56.

1816.

BUCH, LEOPOLD VON: Voyage en Norvège et en Laponie.

Transl. into French by J. B. B. Eyries. Paris. Introduction by von Humboldt.

EYRIES, J. B. B.: See Buch, Leopold von, 1816.

1818

HERTZBERG, N.: Noget om Snebræen Folgefond i Søndhordlehn og Hardanger Fogderier [Notes on the névé Folgefondi in Sunnhordland and Hardanger Shrievalty]. Stat. Efterretninger [Statistic Accounts]. Budstikken. 1. Aarg. 1817 and 1818. Nos. 90–91. Chr.a. P. 713–722. Possible to cross the bre in sledges. Farms on the eastern side have pastures in Mauranger, p. 716.

Tell-tales of seven buried parishes. The glacier supposed to be increasing.

1819

BØJESSEN, U. F.: Beskrivelse af Leirdal Præstegjeld [Description of the Parish of Lærdal]. — Den Norske Tilskuer. 3. Aarg. Bergen. P. 305–315.

Glaciers in Horungene, p. 311–312.

Den Skandinaviske Half-Ön (in) «Iduna». 5. Häftet. Stockholm. P. 71–117.

Kunnen's glaciers (Svartisen), p. 73 Snöhättan, the highest mountain in Scandinavia, p. 74, The snow line, p. 99–102. Georg Wahlenberg and glaciers, p. 103–05 (esp. Sulitjelma).

Transl. into Norwegian in Budstikken. Aarg. 3. Christiania 1821–23. P. 138–176.

SCORESBY, WILLIAM: Narrative of an Excursion upon the Island of Jan Mayen. — Edinb. Philos. Journ. Vol. 1. Edinburgh. P. 121–126. «Three remarkable icebergs appear extending from the base of Beerenberg to the water's edge», p. 121.

«. . . . icebergs — — — frozen cataracts», p. 121.

SCORESBY, WILLIAM, DEN SOHN: Von dem Grönländischen oder dem Polareise (Frei bearbeitet von Ludwig Wilhelm Gilbert in his) Ann. d. Physik. Bd. 32 (62). Leipzig. P. 1–71.

On «Eisberge», p. 19 et seq., die sieben Eisberge.

Alludes to Phipps and others.

VARGAS-BEDEMAR, EDUARD ROMEO: Reise nach dem hohen Norden. 2. Bd. Frankfurt a/M. 570, 411 p.

Map of Norway.

Folgefondi, vol. 1, p. 167–169; Fresvikbreen, vol. 1, s. 201–204; Jotunheimen, vol. 1, p. 225. Fonndalsbreen, Svartisen, vol. 2, p. 58–62, said to be retreating. Lyngen, vol. 2, p. 83. Jøkelfjordsbreen and Seilandsjøkelen, vol. 2, p. 84.

1820

BOHR, C.: Om Iisbræerne i Justedalen og om Lodalskaabe [On the glaciers in Jostedal and on Lodalskåpa]. — Blandinger. Bd. 2. Chr.a. P. 289–317.

Reprint in *Den Norske Turistf. Årb.* 1874, Chr.a. 1875, p. 88–102. Other editions, see Halvorsen: *Norsk Forfatterlexicon.* 1814–1880. Bd. 1. Chr.a. 1885, p. 397.

Engl. edition in *Edinb. Philos. Journ.* II. Edinburgh 1827 pp. 225–261 (Account of a visit to the glaciers of Jostedal).

Nidal – henrivende [ravishing] Naturscener, «prægtige, skrækkelige, men tillige fortryllende skjønheder [magnificent, terrific, but also fascinating beauties], p. 290. Bergsetbreen, yndig [lovely], pittoresk, Bjørnstegbreen and Nigardsbreen are majestic, picturesque etc., p. 291. The damming up of the Jostedal River by Bjørnstegbreen, p. 297–298. Sogns Justitsprotokoll [assize minute] states glacier advance, p. 292.

HERTZBERG, P. H.: *Efterretninger om Quinherreds Præstegjeld* [Notices on the Parish of Kvinherad]. – *Budstikken.* Årg. 2. No. 21, 22, 23, 24. Chr.a. P. 160–187.

Følgeforni, p. 164–166.

KEILHAU, B. M.: *Erindringer af en Fjeldreise 1820. Tilegnet min Ven Boeck* [Retrospection of a mountain excursion. Dedicated to my Friend Boeck]. – Chr.a.

A portofolio with sketches in the Archiv of the University Library, Oslo. One of them reproduced in *Den Norske Turistf. Årb.* 1893, called Alpevuer. See Øyen, P. A.: *Vore bræagnes geografi,* *Nyt Mag. Nat.* Bd. 37, Chr.a. 1890, p. 90.

KEILHAU, B. M.: *Fjeldsituation og Livsfare* [Mountain situation and danger to life]. – *Morgenbladet.* Aug. 27t. 1820. Chr.a.

An attempt to ascend Store Lodalskåpa.

Reprint in *Den Norske Turistf. Årb.* 1874. Chr.a. 1875.

KRAFT, JENS: *Topografisk-Statistisk Beskrivelse over Norge* [Topographical-statistical description of Norway]. 6 vols. Chr.a 1820–1835.

Deel 1, 1820, 689 p. Smaalehnene, Aggershuus and Hedemarken Amter.

In Østerdalens Fogderie [shrievalty] there were «perenne» snowpatches, but not so large that they might be called névés or glaciers, p. 552.

Deel 2, 1822, 900 p. Christians, Buskerud and Jarlsberg and Laurvigs Amter.

In Gudbrandsdal Fogderi Dovrefjeld bespoken, Snehætten, p. 67–68. The mountains in the west little investigated. Halling-Jøkelen and Halling-Skarven or Skavelen mentioned. The track Voss–Hallingdal over the Skavel, p. 294–95.

Deel 3, 1826, 590 p., deals with Bratsbergs, Nedenæs and Lister and Mandals Amter.

Deel 4, 1829, 962 p. Stavanger and Bergenhuus Amter.

Ryfylke Fogderie: To the author's knowledge no glaciers there. But snowpatches might be found throughout the summer, p. 113. In Søndhordlehn and Hardanger Fogderie there were many of them: Halling-Jøkulen, p. 419, Følgefonden, p. 419, Ouseskavlen and Sime-Jøkulen, p. 443, and many snow-fields, in Kinservig, p. 418 and 445. Bondhuusbreen, p. 564, Følgefonden, p. 580–583, tell-tales of the buried parishes. Crossings. Sogns Fogderie: Jotunfjeldene [the name is not mentioned in Deel 2, as it was not known then], p. 710, Horungerne higher than Sneehætten.

Justedalsbræen, p. 711–712, Blåskavlen, p. 712, Justedal, p. 719–724. The tracks down to the Sognefjord were cumbrous and dangerous, as were those to Gudbrandsdal and to Nordfjord, p. 720. Justedalsbræen once more, p. 804–809, Lodals-Kaaben, p. 806. Glacier retreat, p. 808. Icedamming by Veslefjordbreen in 1820, p. 808. Nordfjord, Lodals-Kaabe and Justedalsbræen, p. 879–883, Tracks over the Bre, p. 880–881, 883 (Rauddal and Greidung route), p. 909–910, The Snow-field, its western glaciers and tracks over it, p. 920–22. Guides from 1829.

Deel 5, 1831–32, 790 p. Romsdal and Søndre Trondhjems Amter.

Søndmøre Fogderie: Snee- og Iisbræer [snow-fields and glaciers], p. 57, 60, 65. Romsdals Fogderie: Blaa-fonden, p. 148. Orke- and Guledals Fogderie: Snow line, p. 431, Sneehætten, p. 432–433, 550–552. Refers to v. Buch, Hisinger Schult and others.

Deel 6, 1835, 624 p. Nordre Trondhjems, Nordlands and Finmarkens Amter.

Helgelands Fogderie: Oxefjeld, Nasafjeld and other mountains, «Fonden» (Svartisen), p. 247–248, Oxtinden, p. 255, Svartisen, p. 255–258. In the Holandsfjord it goes «quite into the sea». Further p. 299, Kunnen, p. 301, is no glacier, as v. Buch said, Saltens Fogderie: Sulitjelma, p. 305, «the most awful glacier in the whole country north of Dovre», Svartisen, pp. 305, 308, Blaamanden, p. 309, Frostisen, p. 315. Vesteraalens and Lofotens Fogderie: Mountains covered by «eternal snow and ice», p. 354. Finmarkens Amt: Jøkelfjordsbræen, p. 455, in the Lyngen Mountains, p. 466. in Qvænanger-Tinderne and the Jøkelfjord, p. 467–468. The latter the northernmost glacier in the continental Norway.

SCORESBY, WILLIAM: The Arctic Regions and the Northern Whale-fishery. Rel. Tract. Soc. London about 1820. VIII + 192 p.

An abstract of a greater work of Scoresby issued in Edinburgh 1820. Glaciers, p. 19. One of the «Seven Icebergs» is seen in calving.

SCORESBY, WILLIAM: An Account of the Arctic Regions, with a History and Description of the Northern Whale-Fishery. Edinburgh. 2 vols. 633 + 574 p.

1 large fold. map of the northern Arctic, 1 fold. map of Spitsbergen, one of the earliest in showing glaciers, 1 map of Jan Mayen, showing glaciers, 1 picture from Jan Mayen, 24 engravings.

Chapter in vol. 2: An Account of Spitsbergen and the immediately adjacent Islands, p. 92–154. Glaciers, called icebergs, p. 101–109. Glaciers on Jan Mayen, p. 159–160.

Reprint: Rel. Tract. Soc. London 1849.

An abstract: The Arctic Regions and the Northern Whale-fishery, published later in London. An abstract also in Hermoder, Chr.a. 1824. See further Alp Journ., vol. 19, London 1897, Compare Wieder 1919 and Alp. Journ., Vol. 17, London 1895, p. 118–123, 126–130.

1821

KEILHAU, MATHIAS BALTHASAR: Nogle Efterretninger om et hidtil ubekjendt Stykke af det søndenfjeldske Norge [Some accounts of a hitherto unknown tract of Southern Norway]. — Budstikken. 2. Aarg. No. 49–50. 1820–21. P. 385–400.

Also in Mag. Nat. Aarg. 1, Bd. 1, Chr.a. 1823, p. 113 et seq. Reedited

by E. Sars in *Den Norske Turistf. Arb.*, Chr.a. 1872, p. 54–65. Keilhau's Opdagelse af Jotunheimen [Keilhau's discovery of the Jotunheim]. See also C. G. Lundh, *ibid.* 1875, p. 109–112: Om Keilhau og Boecks Opdagelse af Jotunfjeldene [On Keilhau's and Boeck's discovery of the Jotun Mountains]. — Further in Amund Helland, *Norges Land og Folk*, Bd. 5, Kristians Amt, part 1, Kr.a. 1913, p. 87–94. In German: Einige (topographisch-geognostische) Nachrichten über einen bisher unbekanntem Theil des söndenfeldsche Norwegen. — *Isis von Oken*. Bd. 2. Jena 1823. P. 1354–1360.

SCORESBY, W.: Von den Gletschern auf Spitzbergen, besonders von den Sieben Eisbergen. — *Ann. Phys.* Bd. 69. Leipzig. P. 136–143.

1822

(BOECK, CHR.): Excursion in Jotunheimen 1819 (in) *De høieste Fjelde i Norge* [The highest mountains in Norway]. — *Hermoder* 2. Halvaarg. Chr.a. P. 235–240.

Remarks on the glaciers.

HANSTEEN, CHRISTOPHER: Bemærkninger og Iagttagelser paa en Reise fra Christiania til Bergen og tilbage i Sommeren 1821 [Remarks and observations during a journey from Christiania to Bergen in the summer of 1821]. — *Budstikken*. Aarg. 3. No. 51–62, 65–70, 79–80, 83–86, 93–97, 101–102. Chr.a. 1821–22. P. 393–399, 407–414, 423–434, 451–454, 463–487, 520–558, 625–640, 657–685, 737–758, 801–807.

Hallingjökulen (erroneously for Hardangerjökelen), p. 523, Folgefonni, p. 625–27. Abstr. in *Hermoder*. No. 29. Chr.a. 1822. P. 225–38, 241–53, 262–72.

Reprint in the author's *Reiseerindringer*. Chr.a. 1859. P. 1–82.

The Hallingjökul (i. e. Hardangerjökelen), p. 32.

Folgefonni, p. 56–57.

NAUMANN, CARL FRIEDRICH: Einige Bemerkungen auf einer Wanderung über Lang-Field und Dovre-Field nach Trondheim in Norwegen. — *Gilbert's Ann. d. Physik*. Bd. 71. Leipzig. P. 177–199.

Ascent of the Lomsegg and Snøhetta. Remarks on snow and forest-lines. A list of mountain altitudes. Damming up of the Jostedal River, p. 200. Rev. in *Mag. Math. Nat.* Bd. 1, p. 165–166. Chr.a. 1823 and by Ludw. Wilh. Gilbert in his *Annalen*. Bd. 71, p. 69.

NAUMANN, CARL FRIEDRICH: Einige Bemerkungen auf Ausflügen in die Norwegischen Schnee-Gefielde. — *Isis von Oken*. H. 6. Jena. P. 641–655. 1 plate.

Glaciers: Folgefonni, p. 641–646, said to be increasing, p. 645. Die Hurunger (thought to be the highest mountains in Norway), p. 646–652. Die Justedal Gletscher, p. 652–659. Snow line, p. 659 et seq. Also in *Min. Taschenbuch* Abt. I. 1823.

Den Scandinaviske Halvøe. — *Budstikken*. Aarg. 3. Chr.a. 1821–1822. P. 138–176. (From «*Iduna*». Häfte 6. Stockholm 1816. P. 71–117. There mostly from Wahlenberg).

Glaciers: «Kunnen» said to reach to the sea, p. 140. Sulitjelma, p. 164. Snøhetta, p. 169. Snow line and glaciers: p. 164–170.

SCHØNING, GERHARD: Reise gjennem det nordlige Gudbrandsdalen i Aaret 1775 [A journey through the Northern Gudbrandsdal in the year of 1775]. — Budstikken. Aarg. 3. Chr.a. 1821—22. P. 69—80, 106—112.

The author knows very little about the glaciers in G. . . . en stor Snee-Brede, som kaldes Smørstubbyen [a large glacier called S. = Smørstubbyen], p. 74. In another description of his travels he calls Snøhetta [= Snow-cap] Sneehytten [= the Snow Hut].

1822—23

FLINTOE, JOHANNES.

This artist visited Jostedalen 1822 and painted here several glaciers:

Lodalskaaben. Gouache. Private ownership (Catal. No. 98 and 109).

Krondalen, Sogn. Gouache. Bergens Billedgalleri (Catal. No. 113).

Nigardsbræen, Mjøvisdalen. Gouache. Priv. (Catal. No. 126).

Tverbræens nedre Kant. Gouache. National Gallery, Oslo (Catal. No. 106). (Catalogue in the N. G. 537).

Tverbræens nedre Kant. Oil-paint. Gothenburg Museum (Catal. No. 31).

See Henning Alsvik: Johannes Flintoe. Oslo (Gyldendal) 1940.

148 p. A catalogue of the artist's works, p. 142—148. The above numbers refer to that list.

1823

KEILHAU, MATHIAS BALTHASAR: Einige (topographisch-geognostische) Nachrichten über einen bisher unbekanntem Theil des søndenfeldsche Norwegen. Isis von Oken. Bd. 2. Jena. P. 1354—1360.

LUNDH, G. F.: Hurrungerne (On the discovery of Jotunheimen by Keilhau) Mag. Nat. Bd. 1. Chr.a. P. I—VIII. 1 copper-print of Kaldedalsbreen. Reprint in Den Norske Turistf. Aarb. 1874. Chr.a. 1875.

The name Jotunfjeldene, p. V and VI.

1824

Fjeldreise i sommeren 1822. Fragmenter af . . . [Fragments of a mountain journey in the summer of 1822]. Hermoder. 6. Halvaarg. Chr.a. 1824. P. 57—64, 89—98, 161—168, 169—170.

Glaciers mentioned: Skarven (i. e. Hallingskarven), p. 59. Jokulen (i. e. Hardangerjøkelen), p. 62, also called Normannajøkul and Hallingjøkul, p. 96. Folgefonna, p. 161—163. Jostedals-Gletscherne, p. 165. Jotunheimen, p. 170.

Refers to Bing (1796), V. Buch (1812, Budst. 1820), Smith (Top. stat. Saml. 1813). Hertzberg (1818).

NAUMANN, CARL FRIEDRICH: Beyträge zur Kenntniss Norwegens, gesammelt auf Wanderungen der Sommermonate der Jahre 1821 und 1822. Leipzig. XIV, 242; X, 407 p.

4 maps. in vol. 2.

Vol. 1. Folgefonna, p. 105—123. Buarbreen, p. 107. Reisetser — Jondal, p. 121—124. Altitudes, p. 129—131, 203, 207.

Vol. 2. Jostedalsbreen, p. 100 et seq. The name Jotunfjell, p. 112, 175. Devastating of farms, p. 196 et seq. Abstract from the protocol of a Court of Justice

(from Bohr, 1820), p. 198–199. Bjørnstigbre once reached over the valley. The river found its way under it, p. 200, might have formed an ice-dammed lake, p. 214–215. Ascent of Lodalskåpa, p. 200 et seq. The passage Rauddal-Sundal, p. 213 et seq. Few crevasses, «not seldom passed with horses, whose traces we noticed frequently enough not to lose our course in case of mist». The track lead over the transversal glacier a very short distance. The passage difficult, «with bottomles snow, with water and blocks of rock in a wild muddle. Still is this abyss sometimes passed through with horses.» In the western Rauddal rises the Sundalshammar «like a wall» very abruptly, p. 218. The mountain track Jostedal-Skjåk, p. 223 — et seq. Styggevatn. Mysbyttuset Altitudes, p. 238–242. Dovrefjell, p. 245 et seq. Snøhetta, p. 265 et seq. Forest lines, p. 284–287.

NEUMANN, JACOB: (Bishop of Bergen Diocese:) Bemærkninger paa en Reise i Sogn og Søndfjord 1823 [Remarks on a journey in Sogn and Sunnfjord, 1823]. — Budstikken. 3. Række 5. Aarg. Chr.a. No. 47–53, p. 369–424, and Nos. 67–73, p. 529–584.

The journey to Jostedal, p. 529 et seq. Awful mountains, Storhaug. Glaciers, p. 538–545 and 563–569. Jostedalsbreen «the largest known snow-field» Nigardsbreen, p. 541–545. Blottingsand from under the glaciers, p. 546. The track to Gaupne as cumbrous and dangerous as the one past Storhaug, p. 546–547. Information on the glaciers and localities in the Fjærlandfjord by Lieutenant Hartvig Møller, p. 564–570. Remarks on a glacial outburst from Skadevatn in Vetlefjorddal, p. 563.

Osedalen. Naturmærkværdigheder i [Rare phenomena in the nature of Osadalen, Hardanger]. Hermoder. 6. Halvaarg. Chr.a. P. 148–150.

Oseskavlen, Simeojøkelen. Cold and warm holes, incomprehensible waterflow in Solskinstjern and elsewhere, p. 149.

SCORESBY, WILLIAM: Spitsbergen og de nærliggende Øer [Spitsbergen and the adjacent Islands]. Af Soresby's Account of the Arctic Region, Edinburgh 1820. Hermoder. 6. Halvaarg. Chr.a. P. 313–317.

Iisbjerger [glaciers]. p. 314–315, esp. the Seven Icebergs.

1825

BLOM, G. P.: Bemærkninger paa en Reise i den nordre Deel af Bergens Stift i Sommeren 1823 [Remarks on a journey in the northern part of the Diocese of Bergen during the summer of 1823]. — Budst. 6. Aarg. 1825. Nos. 15–20. Chr.a. P. 113–176.

Description of the ugly Jostedalen. «Of charm I found nothing, of horrors much.»

HERTZBERG, NIELS: (On export of glacier ice from Folgefonna to England.) Morgenbl. No. 277, 4. October. Chr.a. 4 p.

At first from Bondhusbreen. 1825 also from the farm Bleie in Sørfjorden.

HISINGER, W.: Anteckningar i Physik och Geognosi under Resor uti Sverige och Norrige [Notes on physics and geognosy made during journeys in Sweden and Norway]. Bd. 1–7. Upsala och Stockholm 1819–40. — Vol. 3, Norrige (Norway) printed in Upsala. 95 p.

Abstr. from Pontoppidan's map, 1785. 3 ill. from Snøhetta.

Information about the snow line on Snøhetta, p. 58–59.

1827

FOOTY, R. H.: A Survey of the Principal Points of the Northern Coast of Spitsbergen — chiefly constructed from the observations of Captain W. E. Parry and Lieutenant H. Foster.

I large fold. map. as an appendix to Parry, Narrative of an Attempt to reach the North Pole. London. Showing «icebergs» — glaciers — in Hinlopen Strait and on the North-West Coast.

LATTA, THOMAS A.: Observations on the Glaciers and Climate of Spitzbergen made during a Visit to that Island; with a Reply to Mr. Scoresby's Remarks. — Edinb. New Philos. Journ. Edinburgh. 91—103.

Mentioned by Ch. Martins in Observations sur les glaciers du Spitzberg 1842.

1828

HERTZBERG, NIELS: On travelling in Norway and especially in Hardanger. On glaciers in South-Western Norway. — Morgenbladet, Nos. 336—337. Chr.a. 1828.

Folgefonna mentioned and the best way to reach it. Many famous visitors in the deanery of Ullensvang, inter alia v. Buch, Carl Naumann, Vargas Bedemar, Robert Everest, Edward Price, Edward Penrhyn, Flintoe, Lord Clanwilliam, the Marquis of Lotham, Lord Kerr, the painter Mr. Danby etc., etc. Many English came solely for fishing and hunting.

SCHULT (Bergkandidat): Nogle maalte Fjeldhøider i det Nordenfjeldske Norge [Some measured altitudes in the Nordenfjeldske N.]. — Mag. Nat. Bd. 8. Chr.a. P. 272—279.

Sneehatten, p. 277—279.

1829.

EVEREST, ROBERT: Journey through Norway, Lapland and Part of Sweden. — London. 383 p.

Frontispiece, 5 maps, diagr.

Glaciers: Folgefonna, p. 232, Nigardsbreen, p. 241. Tradition of glaciers advance: The Ni Gaard Dal was once divided into 9 farms; the glacier swallowed the farms and their possessors. Ice export, p. 233.

1830

BLOM, GUSTAV PETER: Reise i Nordlandene og igjennem Lapland [A journey in the Northern Provinces of Norway and through Lapland]. — Chr.a. 351, 160 p.

«The ugly Jostedal Glacier», p. 11—12.

1831

KEILHAU, MATHIAS BALTHASAR: Reise i Øst- og Vest-finmarken samt til Beeren Eiland og Spitzbergen i 1827 og 1828 [A journey in East- and West-Finnmark, to Bear Island and Spitzbergen in 1827 and 1828]. — Chr.a. 247 p.

A sketch-map of Spitsbergen. 3 sketches.

Glaciation on Seiland, Northern Norway, p. 106–107. Snow line.

Abridged German transl. in Peterm. Mitt. Erg.h. No. 16. Gotha 1865.
P. 43–67.

LESSING, CHR. FR.: Reise durch Norwegen nach den Lofodden durch Lappland und Schweden. — Berlin. 302 p.

1 fold. map of Lofoten.

Remarks on the glaciers on Oxenfield near Kunnen.

1832

ELLIOTT, CHARLES BOILEAU: Letters from the North of Europe. — London. 475 p.

Glaciers of Folge-Fund, p. 134, 138–142. Formation of Glaciers, p. 141–142.

1833

FAYE, ANDREAS: Fougstjorbreen in Rødøy (supposedly Tjongsfjordbreen) reaches sea. — Norske Sagn, Bd. 1, Arendal. P. 250. In a reprint 1848, p. 225–226.

Told in connection with tell-tales similar to those from Folgefonna.

See Faye: Norske Sagn, 1833, about this fonn.

FAYE, ANDREAS: Norske Sagn I [Norwegian tales]. Arendal. 31, 235, 8 p.

One of the tales is called *Folgefonden*. P. 238–240: «Where the remarkable glacier now towers was in olden times a fertile valley, called Folgeedal and comprising 7 parishes, but whose inhabitants were so haughty and ungodly that God finally let it snow without cessation ten days and ten nights. The whole valley was consequently filled up and every living substance was destroyed.

Long afterwards one could see birds flying above the snow-covered waste, they are the doomed souls.»

FAYE, ANDREAS: Norske Sagn I. — Arendal.

The Black Plague in Jostedal. Nordfjordings new settlers there, p. 138.

1835

BRETON, Lieutenant W. H.: Skandinavian Sketches. London. 354 p.

1 fold. map of Norway, ill.

Glaciers, p. 284, 313. Nine farms said to have been covered by a glacier in Jostedal. Altitudes, a list facing p. 354.

1836

WERGMANN, P. F.: Sneebræ i Jostedal [A Glacier in Jostedal] in his: Norsk Prospektsamling. 13de Hefte. — Chr.a.

1840

BROCH, TH.: Naturmerkværdigheder [Phenomena in nature] in Jens Kraft: Topografisk Beskrivelse over Kongeriget Norge. Deel 2. Det søndenfjeldske Norge. Chr.a. P. 84–86.

A description of Jotunfjellene. Reprinted in A. O. Øverland: Jotunheimens opdagelseshistorie, 1896, p. 122–126.

KRAFT, JENS: Topografisk-Statistisk Beskrivelse over Kongeriget Norge [Topographical-statistical description of the Kingdom of Norway]. Deel 2.

Chapter Gudbrandsdalen Fogderie [Shrievalty], an abridged and shortened reprint of Gudbrandsdalen Fogderie in the description of 1822, Deel 2.

Sneehætten, p. 27, Sne og Iisbræer, p. 36–38, 39, 40. Jötun-Fjeldene mentioned this time, p. 28.

MARTINS, CHARLES FRÉDERIC: Observations sur les glaciers du Spitzberg comparés a ceux de la Suisse et de la Norvège. — Biblioth. univ. de Genève. Genève, juillet. 36 p. — Ann. Sci. géol. Oct. 1842. — Bull. Soc. géol. Fr. Tome 14. Paris. P. 14 et seq. — Paul Gaimard, Voyages 1843–55. Géogr. phys. Tome 1. 1^{re} partie. Livr. 3. Paris. P. 138–92. (Also remarks on Jan Mayen.)

Abstr. Le Spitzberg. Tour du Monde. Tome 12, Paris 1865, p. 1–32.

1841

LINDBLOM, A. E.: Vandring i Norge [Rambles in Norway]. — Kgl. Svenska Vetensk. Acad. Handl. 1839. Stockholm. P. 242–299.

Advance of the Nigardsbre, p. 289.

MARMIER, XAVIER: See The Seven Icebergs (1841).

The Seven Icebergs (in) Marmier, Xavier: Lettres sur Le Nord (Danemark, Suède, Norvège, Laponie et Spitzberg). — Bruxelles. 273, 314 p.

Chapter Le Dovre Field: Snehetta mentioned, vol. 1, p. 209 et seq.

» Beeren Eiland — Le Spitzberg: Remarks on «les sept montagnes de glace» and other glaciers, vol. 2, p. 103 et seq.

Also printed in Paris in 1840, 1841, 1847, and 1857.

Transl. into Dutch: Brieven over het Noorden, Lapland, Spitsbergen (2 vol.), Deventer 1841. Transl. into Italian: Lettere sulla Danimarca et lo Spitzberg (2 vol.), Milano 1841.

The Seven Icebergs (in) Marmier, Xavier: Lettere sulla Danimarca, la Svezia, la Norvegia, la Laponia et lo Spitzberg, prima versione dal Francese di A. Zoncada. — Milano. 236 + 239 p.

Chapter Dovre Field: Remarks on Snehätten (Cappel de neve), vol. 2, p. 35 et seq. «Beeren-Eiland — Lo Spitzberg»: Remarks on the «sette montagne di ghiaccio» and other glaciers, vol. 2, p. 201 et seq.

1842

RODE, FREDERIK: Optegnelser fra Finmarken samlede i Aarene 1826–1834 og senere udgivne som et Bidrag til Finmarkens Statistik [Records from Finnmark collected during the years 1826 to 1834 and later edited as a contribution to the statistics of Finnmark]. — Skien. 340 p.

Glaciation, p. 16, 17, 22–23.

SILJESTRÖM, P. A.: Dovrefjäll och Filefjäll [The mountains D. and F.] (in his) Anteckningar och Observationer rörande Norge [Notes and observations regarding Norway]. — Norrköping. P. 155–173 and footnotes.

Refers to Gaimard's Voyages in 1838–40.

Glaciers, Snøhetta, p. 157–158. Jostedalbreen, p. 166–170. Decrease of Nigardsbreen.

1843

BEECHEY, F. W.: A Voyage of Discovery towards the North Pole in his Majesty's Ships Dorothea and Trent 1818. — London. 351 p.

1 fold. map of the route, 2 fold. plates, one of which gives a view of glacier valleys (Magdalena Bay). Some other pictures.

Glaciers, p. 47 et seq., 142 et seq., 147–158. Reference to works on glaciers, p. 149, 154 and 324 (Phipp's, 1773, and Scoresby's, 1820).

An abstr. in D. Murray Smith: Arctic Expeditions. It is called Franklin's first arctic voyage, p. 41–78.

Remarks on glaciers, p. 49–50, 71–75.

Another abstr. in P. L. Simmond: The Arctic Regions — in a chapter called «Buchan and Franklin», p. 17 et seq.

Remarks on glaciers, p. 21.

1843–1855

BEAUMONT, ÉLIE DE: Instructions géologiques Paul Gaimard: Voyages de la Comission Scientifique du Nord en Scandinavie, en Laponie, au Spitzberg et aux Ferøe, pendant les années 1838, 1839 et 1840 sur la corvette La Recherche. Paris. 210 p.

Glaciers on Spitsbergen; «les sept montagnes de glace» and others, p. 55.

DUROCHER, J.: Des neiges perpétuelles. — Paul Gaimard (as above). Livre 10. Géogr. pssyique. Tome 1. 1^{re} partie. Paris. P. 237–319.

1 plate showing heights of snow line.

DUROCHER, J. (1846): Les glaciers du Spitzberg comparés à ceux des Alpes. — Paul Gaimard (as above). Livre 10. Paris. P. 320–349.

GAIMARD, PAUL; J. DUROCHER, CHARLES MARTINS, E. ROBERT and others: Voyages de la Comission, Scientifique du Nord en Scandinavie, en Laponie, au Spitzberg et aux Ferøe, pendant les années 1838, 1839 et 1840 sur la corvette la Recherche . . . Paris.

Maps, plates.

Of interest for this bibliography: Div. 5, E. Robert: Géology, minéralogy, métallurgy; Div. 6, J. Durocher: Géology, minéralogy, chemistry, physical geography and Ch. Martins: Physical geography, phytogeography, botany, physiology.

MARTINS, CHARLES FRÉDÉRIC: Mémoire sur les températures de la mer glaciale à la surface, à des grandes profondeurs et dans voisinage des glaciers du Spitzberg. — Paul Gaimard, *ibid.* Div. 6. Géogr. phys. Tome 2. partie 2. Paris. P. 279–351.

Also in *Annales de chimie et de physique*, 1848–1849, ser. 3, tome 24, p. 225–252, and tome 25, p. 172–193.

ROBERT, EUGENE: Observations sur les glaciers et les glaces flottantes du Spitzberg. — Paul Gaimard: Voyages . . . (as above). Géologie, minéralogie et métallurgie. Chapter 4. Paris. P. 99–110.

1845

KONOW, HANS: Reise fra Christiania til Bergen af et Medlem af Selskabet til Fortidsmindesmerkers Bevaring [A journey from Chr.a. to Bg. by a member of the Society for Preserving of Old Relics]. — Chr.a. 114 p.

Bondhusbreen, p. 102–103.

Discussed and partly reprinted by O. K. in: Reiseintrykk og kulturhistoriske oppteikningar frå Hardang for 100 år sidan [Travelling impressions and records of cultural history from Hardanger 100 years ago]. — Hardanger Historielag. Tidsskr. Hardanger, Norheimsund 1945, p. 45–63. Elliott mentioned, p. 47. Bondhusbreen, p. 63.

ROBERT, EUGENE: Atlas géologique. Appendix to Gaimard, Paul: Voyages . . .

Western Coast of Finnmark, plate 3; Glacier filling a bay in Bellsund, Spitsbergen. (The bay navigable in 1707), pl. 13; Glaciers in Bellsund, pl. 14.

The Seven Icebergs (in) Marmier, Xavier: Lettres sur le Nord. — Paris 280, 284 p.

Chapter Le Dovre Field: Remarks on Snøhetta, vol. 2, p. 18 et seq.

Chapter Beeren-Eiland — Le Spitzberg: Remarks on «les sept montagnes de glace» and other glaciers, vol. 2, p. 261 et seq.

1846

MUNCH, P. A.: Fortegjæelse over de mest befarede Landeveie og Reiserouter [A list of the most used roads and routes]. — Chr.a. 162 p.

Crossing of snow-fields: Bondhus—Tokheim, (1,5 mil). Jondal—Bleie, p. 35 . . . Mjølvar in Jostedal—Loen and Oppstryn; Greidung—Melvar over Kamperhamrene or Sundal—Rauddal, p. 39. See also Rauddal—Kamperhamrene—Stryn, p. 8.

1847

DAHL, JOHAN CHRISTIAN CLAUSEN: Nigaardsbræen. — The National Gallery, Oslo. Cat. nr. 315.

DUROCHER, J.: Études sur les glaciers du nord et du centre de l'Europe. — Ann. des Mines. Ser. 4. Tome 12. Paris. P. 3–142.

Snøhetta, p. 28.

DUROCHER, J.: Studien über die Gletscher Nord- und Mittel-Europas. — Robert Frorieps Notizen aus dem Gebiet der Nat. u. Heilkunde. 3 Reihe. Bd. 3. Comptes Rendu No. 11. Weimar. P. 4–5.

Remarks on glacier oscillation. Refers to James Forbes.

SMITH, ALFRED: Sketches, Norway and Sweden (from 1845, printed 1847). London.

A sketch called «The Folgefond Mountain and Glacier» shows part of Buarbreen, plate 15. In the text «The Folgefond Fjeld and Glacier» the following information is given: «The Norwegian ice which is sold in London is brought from this glacier».

1848

KRAFT, JENS: Historisk-topografisk Haandbog over Kongeriget Norge [Historical-topographical manual of the Kingdom of Norway]. Chr.a. 1845–1848. 716 p.

Sneehætten, p. 195, 573. Folgefonden, Halling-Jøkulen (i. e. Hardangerjøkelen). P. 458. Jotunfjeldene, Justedalsbræen, p. 499, 502, 521, 522. Alfoten mentioned, the mountain, not the glacier, which obviously was too little known at that time. Sulitjelma called the most awful glacier in Northern Norway, p. 626, 628. Glaciation on the Isle of Senja, p. 645.

TØNSBERG, CHR.: Norge fremstillet i Tegninger [Norway represented in sketches]. Text by P. Chr. Asbjørnsen.

Glaciers: Hurungerne (in) Sogn, p. 51, Myrhorn (in) Jostedalen), p. 53, Justedalsbræen, p. 55, Snehætten, p. 161.

1849

MUNCH, P. A.: Historisk-geografisk Beskrivelse over Kongeriget Norge (Noregvelði) i Middelalderen [Historical-geographical description of the Kingdom of Norway (the greater Norway) in the Medieval Ages]. Chr.a. 256 p.

The ancient names of the most known glaciers in Norway: Breðafonn [Jostedalsbreen], p. 102, Vorsaskafll [Vosseskavlen], p. 113. Jokull [Hardangerjøkelen], p. 113.

SCHJØTT, ANTON: Geografisk Beskrivelse over Kongeriget Norge [Geographical description of the Kingdom of Norway]. Chr.a. 224 p.

Jotunfjældene, p. 11–12 «en frygtelig vild, ubeboet Fjæld-Ørken» [An awful wild, uninhabited mountain waste]. Jostedalsbreen, p. 11–12 «et endnu gyseligere . . . Eng. transl. [a still more gruesome sight than Kuppen gives a glance down into Lodalen, as well as at the glacier going from Lodalskåpa down into the abyss, a sight impossible to describe, into its horrible grandeur]. Folgefonden, Halling-Jøkulen and other glaciers p. 13. Dovrefjæld, p. 14, Ilmanhø . . . til deels dækkede med Snee (in Rondane) [partly covered with snow]. Børgefjæld med en stor Sneebræ [B. with a large snow-field]. Fonden (i. e. Fonnalsbreen), p. 15. «Den skyder en Jøkel lige ned i Havet» [It shoots a glacier quite into the sea]. «Frygtelige Jøkler og Sneebræer» [Awful glaciers and snow-fields], Sulitjelma and others, p. 15.

1850

BIDDULPH, M. S.: See Forester, Thomas, 1850.

FORESTER, THOMAS and M.S. BIDULPH: Norway in 1848 and 1849. London. 483 p.

1 sketch map, 14 plates, incl. one of Hurungene, some minor ill., also of glaciers.

Folgefonna, p. 141, 184, 186–196, 355, 360, 472. Halling-Jøkelen (i. e. Hardangerjøkelen), p. 189. Hurungerne, Jostedalsbræen, p. 356, 366, 376, 382, 384, 391.

KEILHAU, BALTHAZAR MATHIAS: Gaea Norvegica. Vol. 2, 1844. Vol. 3, 1850. Chr.a.

3 large fold. maps, sketch-maps, diagr. Articles of value for this bibliography: Vibe, A., Höhenmessungen in Norwegen. Heft 3,

p. 149–217. Munch, P. A., Uebersicht der Orographie Norwegens Heft 3. p. 503–516.

The most beautiful and perfect glacier in Sulitjelma, p. 513. The vast snow-field of Jostedalsbreen, p. 514. Folgefonnen and other glaciers in Southern Norway, p. 515. Etymology of glacier names, Bibliography.

1852

MUNCH, P. A.: Kart over det nordlige Norge [Map of Northern Norway] in 2 folios (1 : 700 000). Chr.a.

Comprising Nordland and Tromsø Counties with a map of Det egentlige Finmarken [Finnmark proper] inserted in the southern folio.

Okstindene, Svartisen, the Sulitjelma glaciers and Frostisen.

PANCRITIUS, ALBRECHT: Hägringar [mirages]. — Reise durch Schweden, Lappland, Norwegen und Dänemark im Jahre 1850. Königsberg. 358 p.

Sulitjelma and its glaciers, p. 163–167.

1853

ANDERSON, Sir C.: An Eight Week's Journal in Norway etc. in 1852. London. 124 p.

Drawings, one of Folgefonni facing, p. 57.

A trip along the northern outskirts of the Fonn from Sørfjorden to Jondal, the northern route, p. 49–54. (See K. Bing: Ture paa Folgefonnen 1896). Export of Folgefonn-ice «some years since», p. 51.

FORBES, JAMES D.: Norway and its Glaciers. — Edinburgh. 252 p.

1 fold. map, 10 plates, 22 engravings and 1 map in the text. Col. ill. of Bondhusbreen (frontispiece), of Nusfjordbreen, p. 81, of Suphellebreen, p. 150, of Nigardsbreen, p. 167. Forbes travelled in Norway in 1851.

Snehattan a small glacier according to Durocher, p. 21–23. Fondalsbreen (Svartisen) falls into the sea according to v. Buch, p. 52–53. Blaamandsfjeld (Sulitjelma) seen from at long distance, p. 55–57. Calving in Jökulfjord, p. 78–79. v. Buch cited, exploration needed, p. 84–85. Gaimard's expedition did nothing of the sort. Folgefonni, p. 128–140. Fresvikbreen mentioned by Vargas Bedemar, not elsewhere, p. 147. Suphellebreen had dammed up the river 100 years ago, p. 151. Bohr quoted, seen in Jameson's Journ. vol. 3. 1827, Edinburgh, in Durocher, ser. 4, tome 12, 1847. Only a bridle road from the sea to Jostedal, p. 158. The glacier, p. 170 et seq. Snowlines, p. 205–206. Folgefonni, p. 207, Jostedalsbreen, p. 208, Dovre, p. 208, Sulitjelma, 209. Enumeration of the glaciers, p. 217 et seq. Svartisen said to reach into the sea according to Wahlenberg and Munch's map, p. 227.

Rev. in Peterm. Mitt Bd. 1. Gotha 1855: Die Gletscher und Schneefelder Norwegens, p. 62–71. An Abstract. German translation: Norwegen und seine Gletscher. Leipzig 1858. Also in North Brit. Review, which appears transl. into Norwegian in Ill. Nyhedsbl. 8. Aarg. Chr.a 1859 p. 157–60. Title: Prof. Forbes's og Lloyds Reiser i Skandinavien.

FORESTER, THOMAS: Norway and its Scenery. London 1853. 470 p.

Edward Price's journal and drawings included. A short survey of

early travellers: v. Buch, Mary Wollastoncraft, Dr. Clarke, Mr. Edy, Cappel Brooke, Signore Acerbi and his fellow traveller Sköldebrand, Price, Inglis, Everest, Elliot, Barrow, Breton, Latham, Laing, Bid-dulph, Belton, Lloyd, Cummings, Boydell, Mc. Lean. Many of these have written about Norwegian glaciers. Forester mentions Mr. West's landscapes, Albert de Beaumont's drawings in his «Sketches in Denmark Sweden, Lapland and Norway», 1840, as Smith's from 1847.

MORITZ, ANGUST: Tagebuch der Reisen in Norwegen in den Jahren 1847 und 1851. — Stettin. 374 p.

Illustr. incl. one of «Moranger Gletscher bei Bondhus am Folgefonden».

Bondhusbreen, p. 159–161, 163. Retreat about 40 metres during one year.

1854

BIARD, LÉONIE, néé d'Aunet: Voyage d'une femme au Spitzberg. — Paris. 363 p.

Glaciation: chapter «Le Spitzberg», p. 163–204.

1855

MARTENS, FREDERICK: Voyage into Spitzbergen and Greenland. — Hakluyt Society. London. 174 p. Reprint, the first issue in 1694–95.

Seven large Ice-mountains, p. 18–19. Snow-hill in Magdalena Bay, p. 21–22.

PETERMANN, A.: Über die Gletscherwelt im Allgemeinen und die Gletscher des Mont-Blanc im Besonderen. — Peterm. Mitt. Bd. 1. Gotha. P. 173–205.

Part 1. Gletscher und Gletscherlandschaft, p. 173–183. Part. 3. Geographische Verbreitung der Gletscher, p. 199–205, incl. Spitsbergen, p. 204.

For Norway proper referred to the review of Forbes, Norway and its Glaciers, in Peterm. Mitt. B. 1, Gotha 1855, p. 62–71.

TØNSBERG, CHR.: Norge fremstillet i Tegninger med oplysende Text [Norway represented in sketches with informatory texts]. — Chr.a.

Glaciers (no page numbers): Bondhus-(Mauranger)breen, Parti fra Sørfjorden [View from the Sørfjord, with Folgefonna], Horungene, Jostedalsbreen, Myrhorn in Jostedalen, Fjærlandsfjorden in Sogn, Norangsfjorden in Søndmør, Snöhetta.

VIGFUSSON, GUDBRAND: Reisebilleder fra Norge [Travelling sketches from Norway. Transl. from Icelandic after «Ny felagsrit», 6th year]. — Ill. Nyhedsbl. Chr.a. P. 121–122, 125–126, 130–132, 133–134, 138–140.

Folgefonna. The tales of buried parishes have their parallels in Iceland about Odádraun, p. 126. Jostedal. Tales of the nine farms in Nigard, p. 133.

1857

BRACE, CHARLES LORING: The Norse folk. — London. 363 p. Ill.

Fondalsbreen (Svartisen), p. 41–42, Jøkelfjord with the only sea-reaching glacier in Norway, p. 56.

Justedal. Long Vacation Ramble in Norway and Sweden, by X and Y. Two unknown Quantities. — Cambridge. 222 p

Justedal, p. 94–101.

1858

DUROCHER, J.: Carte Géologique et Métallurgique de la Scandinavie (Partly After Hisinger (1825) and Keilhau 1831).) — Paris.

1 large fold. map in two folios, showing glaciers as follows:

«Névé Folgefonden» and two «fonds» east of Røldal, «Halling-Jokul» (i. e. the Hardangerjøkel), «Osc Skavlen», «Neige» on Hallingskarven. «Plateau de Névé du Jostedal», «Neige» on Snøhetta, «Plateau de Névé Fonden» (i. e. Svartisen), «Névé» between Lyngs- and Ulvsfjord (Strupebreen), «Névé» north-east of Kvenangen (Jökkelbreen), «Neige» on Seiland, «Névé» on Kvaløy.

MEHWALD, FR.: Nach Norwegen. — Leipzig. 184 p.

Jostedalsbreen, p. 167, 173–74. Glaciers said to be retreating.

1859

ARBO, A.: Tourist-Skizzer fra endeel af Norges mærkeligste Egne [Tourist sketches from some of the most noteworthy parts of Norway]. — Chr.a. 79 p.

The first ascent of Galdhøpiggen, p. 2, Hedal and Gjende, p. 10–15, Simedal (Demmevatn), p. 32–35, Årdal in Sogn, p. 41–52, Lodal in Nordfjord, p. 54–58. Also in Ill. Nyhedsbl. Christiania 1854. Dealt with by Olaf Hansen in his article: Axel Arbo sine ferder gennem Hardanger i 1850-åri [The journeys of the botanist A. A. through the Hardanger districts in the 1850s]. Hardanger Historielag. Tidsskr. Hardanger. Aarg. 1940. Norheimssund. Reprint of Arbo's description of Hardanger, p. 5–15. The damming up of Demmevatn and its outburst, p. 9.

ASKEVOLD, ANDERS MONSEN: Bondhusbreen. — The National Gallery, Oslo. Cat. No. 16.

BRAVAIS, A.: Atlas de Physique. — Paul Gaimard, Voyages Paris (in one volume together with E. Robert, Atlas historique et pittoresque).

Carte des anciennes lignes du niveau de la mer entre Kaafjord et Hammerfest.
«Neiges éternelles» on the Isle of Seiland. Grand Glacier in Magdalena Bay (map).

FORBES, JAMES D.: Occasional Papers on the Theory of Glaciers, (Collected papers from 1841 to 1858). Edinburgh. 278 p.

Part 21. On glaciers in general, p. 238–259. Names of the ice-streams, p. 233. Norwegian glaciers, p. 237–238. Disastrous increase about 1740, p. 240.

J. LAMONTS Reise nach Spitzbergen, 1858: Bericht in der Geogr. Ges. von London am 15. Juni 1859. — Peterm. Mitt. Bd. 5. Gotha. P. 309.

Information on glaciers in Storfjorden. See James Lamont, Notes about Spitzbergen, 1860, and Yachting in the Arctic Seas, 1876.

ROBERT, EUGENE: Atlas historique et pittoresque. — Appendix to Gaimard, Paul, Voyages Tome I. Paris.

Le Snehættan, pl. 71. Bell Sound (with glaciers), pl. 128–140. Smeerenburg Bay, pl. 143. Magdalena Bay, pl. 145–154. In the same volume: A. Bravais, Atlas de Physique.

ROEMER, FERDINAND: Bericht über eine geologische Reise nach Norwegen im Sommer 1859. — Zeitschr. deutsch. geol. Ges. Jahrg. 1859. Bd. 11, 4. Berlin. P. 541–589.

Information about glaciers.

Spitsbergen. Reiser til Spitsbergen i sommeren 1858 [Voyages to Sp. in the summer of 1858]. — Ill. Nyhedsbl. Bd. 8. Chr.a. P. 178.

Quennerstedt's, Nordenskiöld's and Torell's expedition and Lamont's investigations.

TORELL, OTTO: Bidrag till Spetsbergens Molluskfauna jemte en allmän öfversigt af Arktiska Regionens naturförhållanden [Contribution to the mollusc fauna of Spitsbergen together with a general view of the physical conditions of the Arctic Regions]. — Stockholm. 154 p.

Glaciers, p. 91–118. Examples from Svartisen, p. 92, 98.

WILLIAMS, B. MATTIEU: Through Norway with a Knapsack. — London. 340 p.

1 sketch-map, 6 col. plates, 4 other ill.

The Fondal Glaciers (Svartisen) «have never been explored or even reached,» p. 86–87. Jostedalsbreen, p. 223–239.

1860

LAMONT, JAMES: Notes about Spitzbergen. — Geol. Soc. London. Vol. 16. Quarterly Journ. Mar. London. P. 428–444.

2 drawings of glaciers.

On glaciers in the text, p. 429–431.

VIBE, A.: Høidemålinger i Norge fra Aar 1774 til 1860 [Measurements of altitudes in Norway 1774–1860]. — Chr.a. 235 p.

Folgeforni, p. 38, 56–58, Hallingskarven, p. 75, Jotunheimen, p. 123–124, Jostedalsbreen, p. 89, Snøhetta, Dovre, p. 153, Seiland, Northern Norway, p. 87. Snow and vegetation lines, p. 189–194. Altitudes after counties, p. 197–234. See also A. Vibe. Höhenmessungen in Norwegen. Gaea Norwegica. Vol. 3. Chr.a. 1850. P. 149–217.

ZIEGLER, A.: Meine Reise im Norden. — Leipzig 1860. 2 Bd. VIII, 349; VIII, 358 p.

Snow lines, p. I, 66 and II, 135. Glaciers: Snehättan, Horungene, Jostedals-Bränet-Kette, Folgefonden (Bondhus-Gletscher), Jökelfjord-Gletscher, Okstind, Svartisen, vol. II, p. 66, 67, 116–117, 157–164; vol. II, p. 27–28. Bondhusbreen said to be one of the most beautiful glaciers, not only in Norway, but in the whole Europe, p. I, 159.

Refers to Gaimaird and v. Buch, p. II, 154.

1861

LAMONT, JAMES: Seasons with Seahorses. — London. 312 p.

1 fold. map of the route, ill.

Information on glaciers, e. g., on p. 114–115, 136–138.

TORELL, OTTO: Über die physikalische Geographie der arktischen Region. — Peterm. Mitt. Bd. 7. Gotha. P. 49–67.

Glaciers in Spitsbergen, p. 51–53.

See his Spetsbergens Molluskfauna 1859.

WYNDHAM, FRANCIS M.: Wild Life on the Fjelds of Norway. — London. 273 p.

1 fold. map. og Southern Norway showing Folge Fonden, Jokulen. Halling Skarven, glaciers in Jotunheim, Jostedal Bræen, Hurungene. 1 col. fold. map of glaciers north of Gjende.

Text: Folge Fonden, p. 27, Snow line, p. 16, 119.

Abstr. in Ill. Nyhedsblad, Christiania 1862, called Norske Høifjeldsbilleder [Norwegian mountain pictures]. P. 4–5, 10–11, 15–16, 18–19, 23–24, 29–30.

6 ill. mostly of glaciers, many minor pictures.

Glaciers in Jotunheimen, p. 92, 95, 97–99, 176, 212. Jostedalen, p. 85.

1862

Gamle Norge [Old Norway] or Our Holyday in Scandinavia. — London. 312 p. + Appendix, VII p.

Buarbreen, p. 66–70. Crossing of Folgefonni, Appendix, p. I–VII.

1863

NORDENSKIÖLD, A. E.: Geografisk och Geognostisk Beskrifning öfver nordöstra delarne af Spetsbergen och Hinlopen Strait [Geographical and geognostic description of the north-eastern parts of Spitsbergen and of Hinlopen Strait]. — Kgl. Svenska Vetensk. Akad. Handl. Bd. 4. no. 7. Stockholm. 25 p.

1 large fold. map from 1861.

Stray remarks on glaciers, p. 6, 10–13.

Transl. into German: Die Schwedische Expedition nach Spitzbergen. Peterm. Mitt (Bd. 10). Gotha 1864. P. 127–135, 208–215.

NORDENSKIÖLD, A. E.: See Petermann, A. 1863.

PETERMANN, A. und A. E. NORDENSKIÖLD: Die Schwedische Expedition nach Spitzbergen. — Peterm. Mitt Bd. 9. Gotha. P. 24–27, 47–53, 212–214, 401–405. (and) Peterm. Mitt Bd. 10. Gotha 1864. P. 14–15, 127–135, 208–215.

Snow line in Spitsbergen (1863), p. 49. In the geographical description of 1864 information on glaciers, p. 127–135.

VOGT, CARL: Nordfahrt entlang der Norwegischen Küste, nach dem Nordkap, den Inseln Jan Mayen und Island . . . 1861. — Frankfurt a/M. 429 p. — 2. Buch, Jan Mayen. P. 263–286.

Wissenschaftl. Anh., B. Jan Mayen. P. 420–429. 3 maps, 50 ill.

Rev. in Peterm. Mitt. Gotha 1863, by Georg Brenna, p. 319. Abstr. in «Ausland», Berlin 1863.

1864

BLOMSTRAND, C. W.: Geognostiska iakttagelser under en resa till Spetsbergen år 1861 [Geognostic observations during a voyage to Spitsbergen in the year 1861]. Kgl. Svenska Vetensk. Akad. Handl. Bd. 4. 1861–62. No. 6. Stockholm. P. 1–46.

Geological sketch-map showing glaciers in Treurenburg Bay and King's Bay. Drawings.

Glaciers in the text, p. 5, 24, 25, 35. Oscillation.

MURCHISON, Sir RODERICK J.: Glaciers of the Himalaya Mountains and New Zealand compared with those of Europe. An address. Proc. Roy. Geogr. Soc. Vol. 8. London. P. 221–241.

Refers to works of Forbes (1853) and Martins (Gaimard, 1843–55), p. 225, 227.

Nigaardsbræen i Justedalen. — Ill. Tidende. Bd. 5. 1863–64. Kiøbenhavn. P. 115, 116.

Drawing by G. E. Libert after phot.

Nigaardsbræen, Justedalen. — Ill. Nyhedsblad. Bd. 13. No. 10. Chr.a. P. 51–52.

Phot.

SEXE, SJUR AMUNDSSØN: Om Sneebræen Følgefond [On the névé Følgefonna]. University programme. Chr.a.

Col. fold. map (1 : 200 000), wood-engravings. Summary in French. 36 p.

Decrease of Buarbreen, p. 10, measurement of the glacier flow, p. 11. Water flows, in the Kjerringbotn River, about 1830, in the Buar valley, 1857, and from *Lausavatn* 1849, were supposedly outbursts from ice-dammed lakes, p. 18.

1865

CHYDENIUS, K.: Svenska expeditionen till Spetsbergen år 1861 utförd under ledning af Otto Torell [The swedish expedition to Spitsbergen in 1861 under the direction of Otto Torell]. — Stockholm. 480 p.

7 maps, 16 col. plates, 18 other ill. Translated into German by L. Passarge: Die swedischen Expeditionen nach Spitzbergen und Bären-Eiland. Jena 1869. 378 p. (Contains also transl. of the reports from Nordenskiöld's expeditions.)

DOUGHTY, C. M.: Memoranda on the Summer Motions of Some Glacier Streams in Southern Norway. — Proc. Roy. Geogr. Soc. Vol. 9. London. P. 109–112.

From Jostedalsbreen.

DUNÉR, N. och A. E. Nordenskiöld: Anteckningar till Spetsbergens geografi [Notes to the geography of Spitzbergen]. — Kgl. Svenska Vetensk. Akad. Hand. Bd. 6. Stockholm. 15 p.

1 large fold. map showing glaciers.

Remarks on glaciers: p. 7–8.

Transl. into Engl.: Explanatory Remarks in Illustration of a Map of Spitsbergen by N. Dunér and A. E. Nordenskiöld. — From Transact. Roy. Swed. Acad. Stockholm.

Remarks on glaciers, p. 10–11.

Transl. into German from the English issue: Memoire zu der Schwedischen Karte von Spitzbergen von N. Dunér und A. E. Nordenskiöld. Peterm. Mitt. Erg. 16. Gotha.

Remarks on glaciers, p. 10–11.

Jostedalbræen. En Sommernat paa . . . [A summer night on Jostedal-breen]. — Skill.-Mag. Bd. 35. Chr.a. P. 52–60.

Jotunfjellene. Parti fra . . . [A view into J.] — Ill. Nyhedsblad. Bd. 14. Chr.a. P. 174.

Ill. of Horungene.

The word «Faldjökler» used as in *Speculum Regale* (about 1220).

MARTINS, CHARLES: Le Spitzberg. — Bull. Soc. geol. de France. 2^e ser. Tome 22. Paris. P. 336–348.

Mostly about glaciers.

MARTINS, CHARLES: Du Spitzberg au Sahara. — Paris. 619, XVI p. Glaciation of Spitsbergen, I 76–83.

Transl. into German by Carl Vogt: Von Spitzbergen zur Sahara. 2 Bd. Jena 1868. 354, 333 p.

Glaciation of Spitsbergen, vol. 1, p. 87–93.

MARTINS, CHARLES: Le Spitzberg. — Tour du Monde. Tome 12. 10 sem. Paris. P. 1–32.

NORDENSKIÖLD, A. E.: See Dunér, N. 1865.

PETERMANN, A.: Spitzbergen und die arktische Zentralregion. — Peterm. Mitt. Erg. heft. 16. Gotha.

Part. 3. Memoire zu der schwedischen Karte von Spitzbergen von N. Dunér und A. E. Nordenskiöld (Anteckningar till Spetsbergens geografi). P. 26–33.

Glaciers, p. 28.

Part 6. Die Deutsche Nordfahrt des Herrn v. Löwenigh im Jahre 1827. P. 39–66.

Glaciers, p. 50 et seq. (Keilhau's Bericht). Comparisons with Norwegian Moutains. 1 large fold. map. (1 : 2 500 000), of Spitsbergen.

1 large fold. map (1 : 1 000 000), of North-East Land.

TORELL, OTTO: See Chydenius, K. 1865.

1866

DOUGHTY, C. M.: The Jöstedal-bræ Glaciers. — London. 14. p.

1 sketch-map.

Rev. by H. B. Woodward in *Geol. Mag.* vol. 3, London 1866, p. 309–310.

GEIKIE, Sir ARCHIBALD: Notes for a Comparison of the Glaciation of the West of Scotland with that of Arctic Norway. — Proc. Roy. Geogr. Soc. Edinburgh. Jan. P. 530–556.

1 sketch map of Svartisen. 1 sketch map of Jökul Field (near Tromsø). 1 sketch map of glaciers in Holandsfjord (Svartisen). 1 ill. of the two Fondalsbreene (Svartisen). 1 picture from Jökulfjordbreen, showing its reaching to the sea. Profiles. Abstr. in *Geol. Mag.* vol. 3, London, p. 456–457.

GRAD, A. CHARLES: *Esquisse physique des Iles Spitzbergen.* — Paris. 164 p.

1 fold map.

Chapter 6: *Les glaciers*, p. 53–66.

NORDENSKIÖLD, A. E.: *Utkast till Spetsbergens Geologi.* — Kgl. Svenska Vetensk. Akad. Handl. Bd. 6. No. 7. Stockholm. 35 p.

1 chart from Van Keulen, 1 large fold. map (1 : 1 000 000), diagr.

Advance of glaciers, p. 6–7.

Transl. into Engl.: *Sketch of the Geology of Spitsbergen.* — Stockholm 1867.

1867

DUNÉR, N. och A. E. NORDENSKIÖLD: *Svenska expeditionen till Spetsbergen och Jan Mayen år 1864 under ledning af A. E. Nordenskiöld* [The Swedish expedition to Spitsbergen and Jan Mayen in the year of 1864 under the direction of A. E. Nordenskiöld]. — Stockholm. 152 p.

Sketch map of Spitsbergen, ill. of glaciers. Also in Dunér, N. and A. J. Malmgren, A. E. Nordenskiöld and A. Quennerstedt: *Svenska expeditioner till Spetsbergen och Jan Mayen under åren 1863 och 1864.* Stockholm.

DUNÉR, N. och A. J. MALMGREN, A. E. NORDENSKIÖLD och A. QUENNERSTEDT: *Svenska expeditioner till Spetsbergen och Jan Mayen utförda under åren 1863 och 1864* [The Swedish expeditions to Spitsbergen and Jan Mayen undertaken during 1863 and 1864]. — Stockholm. Part 1, 152 p.

Part 2: An Appendix about a trip to Jan Mayen, written by Aug. Quennerstedt. P. 153–238.

2 sketch-maps, 8 plates, 7 other ill.

Advance of a glacier, in. Bell Sund, p. 76–77. The glaciers on Beerenberg, Jan Mayen, p. 166–167.

Transl. into German by L. Passarge: *Die Schwedischen Expeditionen nach Spitzbergen und Bären-Eiland.* Jena 1869. P. 381–489.

1 fold. map of Spitsbergen (1 : 2 200 000), 1 sketch-map. 8 ill.

MALMGREN, A. J.: See Dunér, N. 1867.

MALMGREN, A. J.: *Vetenskapligt bihang till berättelsen om den Svenska expeditionen till Spetsbergen 1864* [Scientific appendix to the report of the Swedish expedition to Spitsbergen, 1864]. — Stockholm. 21 p.

Of glaciological value in the report:

5. N. Dunér och A. E. Nordenskiöld: *Anteckningar till Spetsbergens geografi* 1865.

9. Nordenskiöld, A. E.: *Geografisk och geognostisk beskrifning af nordöstra delarne af Spetsbergen* 1863.

12. Nordenskiöld, A. E.: *Utkast till Spetsbergens geologi* 1866. Also in Dunér, N. (and others): *Svenska expeditioner till Spetsbergen och Jan Mayen*, Stockholm, p. 239–261.

NORDENSKIÖLD, A. E.: See Dunér, N. . . . 1867.

NORDENSKIÖLD, A. E.: Sketch of the Geology of Spitsbergen. Kgl. Svenska Vetensk. Akad. Handl.

Transl. from the transactions of the Roy. Swed. Akad: Utkast till Spetsbergens Geologi. — Stockholm. 55 p.

Fold. geol. map, showing glaciers. Glaciers, p. 4.

QUENNERSTEDT, AUG.: See Dunér, N. 1867.

QUENNERSTEDT, AUG.: Anteckningar från en resa till Ishafvet i trakten af Jan Mayen år 1863 [Notes from a voyage to the Polar Ocean in the Region of Jan Mayen, 1863]. — Stockholm. 83 p.

Also in: Dunér, N. and A. J. Malmgreen, A. E. Nordenskiöld and Aug. Quennerstedt: Svenska expeditioner till Spetsbergen och Jan Mayen under åren 1863 och 1864. Stockholm.

1868

NORDENSKIÖLD, A. E. und F. W. VON OTTER: Die Schwedische Nordpol-Expedition, 1868. — Peterm. Mitt. Bd. 14. Gotha. P. 429–436.

Glaciers in Kings Bay, p. 434.

OTTER, F. W. von: See Nordenskiöld, A. E. 1868.

1869

FRIES, TH. M. och C. NYSTRÖM: Svenska polarexpeditionen år 1868 [The Swedish Polar Expedition 1868]. — Stockholm. 231 p.

1 map of the sea between Greenland and Spitsbergen showing the routes of the expedition, 4 col. plates, figures in the text.

Information about glaciers, p. 50–51, 99–100. Bibliography.

Transl. into German by L. Passarge: Die schwedischen Expeditionen nach Spitsbergen und Bären-Eiland. Jena, p. 493–510. Rev. by A. Key i «Framtiden», Årg. 3, May 18, p. 434–42. Snowline in Spitsbergen, p. 434. Abstract in Proceed. Roy. Geogr. Soc. vol. 8, London 1869, p. 151–70.

NYSTRÖM, C.: See Fries, Th. M.

PASSARGE, L.: Die schwedischen Expeditionen nach Spitzbergen und Bären-Eiland Aus dem Schwedischen übersetzt. — Jena.

See Chydenius, K. 1865, Dunér, N. 1867, Fries, Th. M. 1869. Torell's expedition of 1861, p. 1–378,

Nordenskiöld's expedition of 1864, p. 381–489,

—»— —»— 1868, » 493–510,

Addenda » 511–518,

1 fold. map of Spitsbergen (1 : 2 200 000), 1 sketch-map of Bear Island. 36 ill.

SARS, E.: Tre Billeder fra Jotunfjeldene [Three pictures from J.]. — Den Norske Turistf. Aarb. 1869. Chr.a. P. 86–90. 3 drawings.

Information about the damming up and outburst of the Mjølkedal River.

SEXE, S. A.: Boyumbræen i juli 1868. University Programme. — Chr.a. 40 p. 3 sketches of glacier flow.

1870

HEUGLIN'S (M. TH. VON) und Graf WALDBURG-ZEIL'S Forschungen in Ost-Spitzbergen, August und September 1870. — Peterm. Mitt. Bd. 16, Gotha. P. 443—451.

SEUE, C. DE: Le névé de Justedal et ses glaciers. Publié par S. A. Sexe. University Programme. — Chr.a. 55 p.

1 fold. map (1 : 200 000), some sketch-maps, 9 phot.

Damming up of the Skadevatn, outburst, c. 1848. Skadevatn is a lake in the Vetlefjorddal, belonging to the Jostefonn district.

WALDBURG-ZEIL, Graf: See Th. von Heuglin, 1870.

1871

HELLWALD, FRIEDRICH VON: Spitzbergen nach den neuesten Forschungen. — Ausland. Jahrg. 24. No. 21. Augsburg. P. 481—485.

«König Johann Gletscher,» p. 483.

See Heuglin's and Count Zeil's investigations, Peterm. Mitt., vol. 16, Gotha 1870.

KOLDEWEY, K und A. PETERMANN: Die erste Deutsche Nordpolar-Expedition, 1868. — Peterm. Mitt. Erg. heft 28. Gotha. 56 p.

1 fold. map of the route (1 : 5 000 000). 1 map of Hinlopen Strait (1 : 400 000).

In part 8: The glaciers in Augusta Bay, 45—46.

PETERMANN, A.: Th. von Heuglins Aufnahmen in Ost-Spitzbergen 1870. Perm. Mitt. B. 17. Gotha. P. 176—182.

Map of Wybe Jans Water and environments (1 : 800 000), showing the glaciers.

PETERMANN, A.: See K. Koldewey, 1871.

SEXE, S. A.: Gletscher-Experimenter. Forh. Vid. Selsk. 1870, Chr.a. P. 396—403.

1 sketch.

1872

Bergsetbræen i Justedalen. Ill. Familiebl. Bd. 3. Chr.a. P. 135—136.

Ill.

Bergsetbræen i Jostedalen. — Norsk Folkeblad. Chr.a. P. 64—66.

Ill.

Tell-tale about the «Rypa».

MOHN, EMANUEL: Fra Jotunheimen [From Jotunheimen]. Den Norske Turistf. Aarb. 1872. Chr.a. P. 27—40.

Ill. of peaks and glaciers, Galdhøpiggen facing p. 53.

Remark on Svartdalsbreen, p. 32.

PETTERSEN, KARL: Geologiske Undersøgelser i Tromsø Amt [Geological researches in Tromsø County], III. — Det Kgl. Vid.sk. Selsk. Skr. Bd. 7. Trondhjem, Norway. P. 103—176.

Glaciers, p. 165. Retreat.

SARS, E.: Keilhaus Opdagelse af Jotunheimen [Keilhau's discovery of Jotunheim]. — Den Norske Turistf. Årb. 1872. Chr.a. P. 54–65.

With a reprint of Mr. Keilhau's report in «Budstikken», 2. Aarg. 1820–21.

VERKRÜZEN, T. A.: Norwegen, seine Fjorde und Naturwunder im Sommer 1871. — Cassel. VI, 188 p.

Glaciers: Buarbrån; p. 89–91. Jostedals-Breden, p. 118. Only mentioned.

An abbreviated transl. into Swedish: Norrige, dess fjordar och naturunder. Stockholm 1873. 128 p.

Buarbreen, p. 55–58. Jostedalsbreen, p. 89. Hestebreen near Jostedalsb., p. 49.

WILSON, J. M.: On the Forms of Valleys and Lake-basins in Norway. Geol. Mag. Vol. 9. London. P. 481–484.

Buarbre advancing, is «an entirely new glacier . . . no glacier in the valley 50 years ago, as I was assured.» But the glaciers in Horungene, were retiring.

1873

On Glaciation and Erosion. Meeting in Geol. Soc. London. Geol. Mag. Vol. 10. London. P. 284–287.

Mr. Blandford spoke of a cirque beneath Snehetta.

GURLT, Dr.: Die schwedischen Polarfahrten nach Spitzbergen in den Jahren 1858, 1861, 1864 und 1868. — Sitz. ber. Niederrhein. Ges. f. Natur u. Heilkunde zu Bonn. 10 p.

Glaciers: p. 5–7.

HELLAND, A.: Professor Naumanns Vandringer i Norge [Professor Naumann's pedestrian trips in Norway]. Den Norske Turistf. Aarb. Chr.a. P. 55–83.

With abstr. from Naumann's «Beyträge zur Kenntniss Norwegens», Leipzig 1824.

Jostedal Glacier, p. 65–70.

HERTZBERG, J. NICOLAY: Med kartet over Galdhøpiggen [With the map of Galdhøpiggen]. — Den Norske Turistf. Årb. 1873. Chr.a. P. 136–146.

1 map. (1 : 100 000). Remarks on glaciers.

MOHN, EMMANUEL: Fra Jotunheimen [From J.]. — Den Norske Turistf. Årb. 1873. Chr.a. P. 27–40.

Frontispiece: Horungerne. Another ill. facing p. 24.

NORDENSKIÖLD, A. E.: Die Schlittenfahrt der schwedischen Expedition im nordöstlichen Theile von Spitzbergen, 24. April–15. Juni 1873. — Peterm. Mitt. Bd. 19. Gotha. P. 444–453.

Remarks on the consistence of the firn-snow.

PETERMANN, A.: Die fünfte schwedische Nordpolarexpedition under dem Commando von Professor Nordenskiöld, 1872–73. — Peterm. Mitt. Bd. 19. Gotha. P. 337–360.

Glaciers, p. 349.

1874

DRASCHE-WARTENBERG, VON: Reise nach Spitzbergen. — Wien. 63 p.

1 fold. sketch-map, 4 fold. plates, frontispiece and ill. in the text.

The author visited glaciers in Bellsund. Fridthjofbreen in rapid advance since 1858, when visited by Nordenskiöld.

HELLAND, A.: Om Gehalten av Slam i Bræelve [On the quantity of silt material in glacier rivers]. — Geol. Fören. Stockh. Förh. Bd. 2. Nos. 7 and 21. Stockholm. P. 204—214.

HERTZBERG, J. N.: Høider i Jotunheimen [Altitudes of mountains in Jotunheimen]. — Den Norske Turistf. Aarb. 1874. Chr.a. P. 126—134.

The lower ends of some glaciers, Geitåbreen, Storegrovbreen, Styggebreen, Tverråbreen and Storegjuvbreen, determined. See the nos. of glaciers, 59, 64, 74 and 86. Compare Burchardt, D. B.: Fjeld i Norge. 1950.

HEUGLIN, M. TH. VON: Reisen nach dem Nordpolarmeer in den Jahren 1870—71. Braunschweig. 3 Bd. About 1000 p.

Information on glaciers in Spitsbergen in vol. 3, p. 338—341. Generally the glaciers were retreating, only Fridthjofbreen had advanced since 1860—61.

NORDENSKIÖLD, A. E.: Die Gletscher auf dem Nordostlande Spitzbergens. Globus Bd. 25. Braunschweig. P. 142—143.

Norske Prospekter [Norwegian views]: Bondhusbræen (Folgefonna) frontispiece in Ny Ill. Tidende. Aarg. 1. Chr.a.

XXII. Bergsetbræen, Jostedalen: Ny Ill. Tidende. Aarg. 4. Chr.a. 1877. P. 236. Ill.

XXVIII. Buarbræen (Folgefonna). Ny Ill. Tidende. Aarg. 5. Chr.a. 1878. P. 236. Ill.

TØNSBERG, CHR.: Norge. Illustrert Reisehaandbog [Norway. Illustrated guide-book]. — Chr.a. 432 p.

Maps and Ill.

Glaciers: Jotunfjellene, p. 99, 264, 275—295. Jostedalsbræen, p. 266—268. (Ill. of Nigardsbreen). Snehatta, p. 108—109. Ill. Folgefonna, p. 218. (Ill. of Bondhusbreen), p. 231, 232. Buarbre advancing, Threatening the farm Buar. Hardangerjøkelen and other glaciers, p. 227. Osedalen, cold-holes, p. 225. Jökelfjorden, p. 253.

Tromsø Amt: Beskrivelse af . . . [Description of the County of Troms]. — Norges Geogr. Opmaaling. Chr.a. 56, 84 p.

Glaciers mentioned on p. 41, 53, 57, 58, 61, 65, 68, 69—73, 81, 83. Some of them meant to be among the largest in Norway.

1875

B.: En overgang over Jostedalsbreen [A crossing of J.]. — Den Norske Turistf. Årb. 1875. Chr.a. P. 148—153.

The route Greidung — Fåbergstøl, Jostedal, easier than the track Lodal — Jostedal. The latter full of crevasses, may be securely passed in winter time and skiing.

Bidrag til kännedom om de arktiska ländernas naturförhållanden, grundade på undersökningar utförda under svenska expeditioner till Polartrakterna [Contributions to the knowledge of the natural conditions of

the arctic countries carried out by Swedish expeditions to the Polar regions]. — Stockholm.

1. Nordenskiöld, A. E.: Utkast till Isfjordens och Belsounds geologi.
2. —»— —»— Redogörelse för den Svenska Polarexpeditionen år 1872—73. See Nordenskiöld, A. E. 1875.

BOHR, C.: Om Iisbræerne i Justedalen og om Lodalskaabe. — Den Norske Turistf. Årb. 1874. Chr.a. P. 88—102.

Reprint from 1820.

C(ORNELIUSSEN), A. O.: Småtterier fra en reise i Nordland [Trifles from a journey in Nordland County]. — Den Norske Turistf. Årb. 1874. Chr.a. P. 57—89.

Svartisen, p. 75—78.

HELLAND, AMUND: Om Botner og Sækkedale [On Cirques and cul-de-sacs]. — Geol. Fören. Stockh. Bd. 2 Förh. Stockholm. P. 286—301, 324—356.

1 plate with sketches of cirques. Lieutenant Karsten Lorange's report of 1868 to Den Geogr. Opmaaling [the Geographical Survey of Norway] included. P. 343—348. Also in Den Norske Turistf. Aarb. 1875. Chr.a. P. 119—147. 1 map.

HELLAND, AMUND: Oversigt over den engelske Litteratur om Fjordenes, Fjorddalenes og Indsjøernes Dannelse [A survey of English literature on the formation of fjords, fjord-valleys and lakes]. — Tids-Tavler (by Ludv. Kr. Daa) . B. 4. Chr.a. 1875—1876. P. 1—28.

K. Lorange's theory on the formation of cirques, p. 28.

HELLAND, AMUND: Om dannelsen av Fjordene, Indsjøerne og Havbankerne [On the formation of the fjords, lakes and submariene banks]. — Övers. Vet.Akad. Förh. No. 4. Stockholm. P. 13—38.

Recent glaciation, p. 31.

HÖFER V. HEIMALT, HANNIS: Beiträge zur Geographie Süd-Spitzbergens. Graf Wilczeks Nordpolarfahrt im Jahre 1872. Petterm. Mit. B. 20. Gotha. P. 219—228.

Glaciers, p. 223—228.

Isrenden fra Folgefonden over Gaarden Bleje ved Sørfjorden i Hardanger [The ice-shoot from Folgefonden over the farm Bleie at Sørfjorden in Hardanger]. — Ill. Nyhedsblad. No. 12 (No. 75). Jan. 17th. Chr.a. P. 85—86.

Ill. showing the lay of the shoot. The ice in the shoot comes from the glacier Stökken, a branch of the Fonn. The shoot, about 8000 feet long, was built in 1874. The ice of a fine, clean quality.

KEILHAU, B. M.: Keilhaus og Boecks Forsøg paa at bestige store Lodals Kaabe [Keilhau's and Boeck's Attempt to ascend Great Lodalskäpa]. — Den Norske Turistf. Aarb. 1874. Chr.a. P. 103—108.

Reprint from Morgenbladet, Aug. 27, 1820, Chr.a.: Fjeldsituasjon og Livsfare [Mountain Situation and danger to life].

KJELLMANN, F. R.: Svenska Polarexpeditionen år 1872–73 under ledning af A. E. Nordenskiöld [The Swedish Polar Expedition in the years 1872–1873 under the direction of A. E. N.]. — Stockholm. 352 p.

1 fold. map. of Spitsbergen, 1 fold. plate showing glaciers in Foulbay. Chapter 12, Isfärden [the Ice Journey], gives information on the inland ice and glaciers. An advance of the latter is supposed, p. 293. Comparison with glaciers in Switzerland and Scandinavia, p. 294 et seq.

LARSEN, JOH.: To vestlandsruter [Two routes to Vestland from Eastern Norway]. — Den Norske Turistf. Årb. 1874. Chr.a.

Over Jostedalsbreen, p. 7–17.

LORANGE (K): Theorie om Botnernes og Dalernes Dannelse [Lorange's theory on the formation of cirques and valleys]. — Report of 1868 to Norges Geogr. Opmaaling, Chr.a. Printed by Amund Helland in Geol. Fören. Stockh. Förh. Stockholm. Bd. 2, p. 343–348 and in Den Norske Turistf. Årb. 1875, Chr.a., p. 133–140, as part of his treatise: Om Botner og Sækkedale.

See also: W. Werenskiöld: Løitnant Karsten Lorange og breene i Jotunheimen. Oslo 1928.

LUNDH, G. F.: Om Keilhaus og Boecks Opdagelse af Jotunfjeldene [On Keilhau's and Boeck's discovery of the Jotun Mountains]. — Den Norske Turistf. Årb. 1874. Chr.a. P. 109–112. Reprint from Mag. Nat. Vid.sk. Bd. 1. 1823. P. V–VIII.

MOHN, E.: Tindebestigninger i Jotunheimen [Ascents in Jotunheimen]. Den Norske Turistf. Årb. 1874. Chr.a. P. 25–63.

The cirques of Glitretind and Nautgardstind, p. 51–52 and 59. The name Ymesfjeld occurs frequently.

See also W. Werenskiöld: Løitnant Lorange og breene i Jotunheimen (1928) and: Ymesfjell (1934).

MOHN E.: Fra Skiaker i Gudbrandsdalen til Justedalen i Sogn [From Skiåk in Gudbrandsdal to Jostedal in Sogn]. — *ibid.* P. 123–125.

Very cumbersome travel.

NORDENSKIÖLD, A. E.: Utkast till Isfjordens och Belsounds geologi [Sketch of the Geology of Isfjorden and Bellsund]. — Geol. Fören. Stockh. Förh. B. 2. Stockholm 1874–75. P. 243–260, 301–322, 356–373.

Map of Isfjorden and Bellsund, Spitsbergen, some profiles.

Glaciers, p. 245–247. Glaciers supposed to be advancing.

Transl. into Engl. in Geol. Mag. Vol. 3. London 1876. P. 16–23 63–75, 118–127, 225–267. Title: Sketch of the Geology of Spitsbergen. Transl. into German: Übersicht der Geologie des Eisfjordes und Bellsundes, Stockholm 1876.

NORDENSKIÖLD, A. E.: Redogörelse för den Svenska Polarexpeditionen år 1872–1873 [Report of the Swedish Polar Expedition, 1872–1873]. — Bih. Kgl. Svenska Vetensk. Akad. Handl. Bd. 2. No. 18. Stockholm. 132 p.

1 large fold. map of Spitsbergen. 1 phot., profiles, Bibliography.

Remarks on glaciers, p. 11–12, 86–96.

See also Hulth, J. M., 1910.

TØNSBERG, CHR.: Norway. Illustrated Handbook for Travellers. — Chr.a. 482, 32 p.

Maps showing routes.

The track Mørk (in Skjåk, Gudbrandsdal) — Rauddal — along the Rauddalsvatn and Leirvatnene — over the Jostedalsbre for half a mile (Norwegian), p. 117. Ascent to Kamphammeren being gradual (4150 feet), the track down to Sundal terribly steep. Bondhusbre, crossings, p. 254–55. Jondal — Sørfjord, p. 255.

1876

DIETRICHSON, N. G.: Galdhøpiggen og Snehætta [Galdhøpiggen and Sn.]. — Den Norske Turistf. Årb. 1876. Chr.a. P. 136–146.

Transl. from M. Ruith's article in Peterm. Mitt. Bd. 22, 1876.

FINN: Turistbref från en resa i Norge sommaren 1875 [Tourist letter from a journey in Norway in the summer 1875]. — Stockholm. 273 p.

The Buarbre advancing, threatening to devastate the farm Buar. In 1871 it advanced 12 feet during a week, p. 159.

LAMONT, JAMES: Spitzbergen. In his: Yachting in the Arctic Seas. — London. P. 221–371.

3 fold. maps, 2 fold. plates showing glaciers.

On glaciers in the text, p. 240, 242, 262, 292, 298.

MOHN, E.: Tindebestigninger i Jotunheimen [Ascents in J.]. Den norske Turistf. Årb. 1876. Chr. a. P. 78–122.

NORDENSKIÖLD, A. E.: Sketch of the Geology of Spitsbergen. — Geol. Mag. Vol. 3. London. P. 16–23, 63–75, 118–127, 255–267.

Transl. from Nordenskiöld, A. E.: Utkast till Isfjordens och Bellsunds geologi. Geol. Fören. Stockh. Förh. Bd. 2. Stockholm 1874–1875.

NORDENSKIÖLD, A. E.: Übersicht der Geologie des Eisfjordes und Bellsundes. Anhang zu O. Heer, Beiträge zur fossilen Flora Spitzbergens. Kgl. Svenska Vetensk. Akad. Handl. Bd. 14. No. 5. Stockholm. P. 93–133. Profiles.

Glaciers, p. 95–98. Supposed to be advancing.

Transl. from: Nordenskiöld, A. E.: Utkast till Isfjordens och Bellsunds geologi. Geol. Fören. Stockh. Förh. Bd. 2. Stockholm 1874–1875.

PETTERSEN, KARL: Bidrag til det nordlige Norges Orografi [Contribution of the orography of the northern parts of Norway]. — Arch. Mat. Nat. Bd. 1. Chr.a. P. 367–437.

1 fold map. profiles.

Glaciological remarks, notably on p. 388–394.

RUITH, M.: Galdhöpig und Snehätta. — Peterm. Mitt. Bd. 22 Gotha. P. 125–128.

Remarks also on snow-lines.

Transl. by N. G. Dietrichson, see there.

SEUE, C. DE: Undersøgelse af Svartisen og Temperaturforholde i enkelte af de nordlandske Fjorde [Research of Svartisen and the conditions of temperature in some of the fjords in Northern Norway]. — Nyt Mag. Nat. Bd. 21, 3. Chr.a. P. 250–270.

1 sketch-map.

On Svartisen, p. 250–270.

1877

BONNEY, T. G.: On Helland's Theory on the Formation of Cirques. — Geol. Mag. Vol. 4. London. P. 273 et seq.

GUMÆLIUS, O.: Om moräner och block vid Sulitelma [On moraines and debris at S.]. — Geol. Fören. Stockh. Förh. Vol. 3. Stockh. P. 17–20.

HELLAND, AMUND: On the Formation of Cirques in Norway and Greenland. — Quart. Journ. Geol. Soc. Vol. 27. London. P. 142–176.

3 sections from Norway, p. 167.

MOHN, E.: Vildt Liv i Jotunheimen [Wild life in J.]. — Den Norske Turistf. Arb. 1877. Chr.a. P. 67–96.

PETTERSEN, KARL: Om Fjord- og Daldannelsen inden det nordlige Norge. a) Nutidige Gletchere [On the forming of fjords and valleys in the northern parts of Norway. a) Recent glaciers]. — Arch. Mat. Nat. Bd. 2. Chr.a. P. 218–236, 272–337.

The Sulitjelma glaciers, p. 220. Øksfjordjøkelen, p. 226–229.

Sketch-maps, sections.

SEXE, S. A.: Om Moræner [On moraines]. — Arch. Mat. Nat. Bd. 2. Chr.a. P. 469–478.

Information on recent moraines. Increase of Buarbreen since 1832.

1878

CHAVANNE, Dr. JOSEF, Dr. ALOIS KORPF and FRANZ, CHEVALIER DE MONNIER: Die Litteratur über die Polarregion der Erde. — Geogr. Ges. Wien. XIV, 335 p.

Nord- und Südpolarregion im Allgemeinen, p. 1, Nordpolarregion im Allgemeinen, p. 6, Arktisches Europa im Allgemeinen, p. 78, Jan Mayen und Bäreninsel, p. 123, Spitzbergen, p. 125, Lappland, p. 140.

FRITZ, HERMANN: Die periodischen Längenänderungen der Gletscher. Peterm. Mitt. Bd. 24. Gotha. P. 381–391.

A compilation of records of glacier variations during historical time, mostly from the Alps, but also from Spitsbergen and Norway, p. 389–390. Spitsbergen, p. 390.

Refers to Naumann: Beiträge . . . (1924), to v. Buch: Reise durch Norwegen . . . (1810), to Bohr: Om Iisbræerne i Justedalene . . . (1820) and to Durocher's works (1845).

HERTZBERG, JOHAN NICOLAY: Melkedøla (A glacial river in Jotunheimen). — Naturen. Bd. 2. Bergen. P. 86–87.

1 sketch-map.

About the same in Morgenbladet, Chr.a., April 26. 1896: Brægjen-nembrydning [Outburst of a glacier lake].

KORPF, ALOIS: See Chavanne, Josef, 1878.

MOHN, E.: Paa tinderne og i botnerne [On the peaks and in the cirques]. Den Norske Turistf. Årb. 1878. Chr.a. P. 25–66.

MOHN, E.: Jotunheimen. — Nytt Norsk Tidsskr. Bd. 3. Chr.a. P. 350–356.

MOHN, H.: Die Reise der Norwegischen Nordmeer-Expedition nach Jan Mayen. Peterm. Mitt. Bd. 24. Gotha. P. 228–235.

1 fold. map 1 : 200 000).

Remarks on glaciers.

MONIER, FRANZ CHEVALIER DE: See Chavanne, Josef, 1878.

SLINGSBY, WM. CECIL: Stray Jottings in Jotunheimen. Den Norske Turistf. Årb. 1878. Chr.a. P. 83–90.

1879

DAHLL, TELLEF: Geologisk Kart over det Nordlige Norge [Geological map of Northern Norway]. — Chr.a.

Shows Okstindene, Svartisen, Frostisen, Jøkelfjordsbreen and Seilandsjøkelen.

Also in Reusch, Hans: Det Nordlige Norges Geologi. Norges Geol. Unders. No. 4. Chr.a. 1892.

HOFER, H.: Gletscher- und Eiszeitstudien. Sitzber. Ak. Wiss. Wien. Math. Phys. Klasse. Bd. 79. Abt. 1. Wien. P. 331–367.

In part 4, Skandinavien, a chapter on Sulitjelma, p. 347–348.

HOLMSTRÖM, LEONARD: Om moräner och terrasser [On moraines and terrasses]. — Öfversigt. Förh. Kgl. Vetensk. Akad. Handl. No. 2. Stockholm. P. 5–48.

Sketches.

Buarbreen, p. 5–9. Jostedalsbreen, p. 9–24.

Jotunfjeldene, kart over [map of Jotunfjellene (1 : 150 000) issued by the Norwegian Tourist Society. Inside cover of]. Den Norske Turistf. Årb. 1878. Chr.a. Printed 1879.

LESLIE, A.: The Arctic Voyages of Adolf Erik Nordenskiöld. London. 447 p.

Maps and ill.

Glaciers in Krossfjorden very large, p. 95–96. Nordaustlandet the broadest glacier in the world. P. 263 et seq. Deep crevasses.

NIELSEN, YNGVAR: Reisehaandbog over Norge [Guide-book to Norway]. — His first issue. Chr.a. 444 p.

2 fold. maps of Norway, maps of Folgefonni, Jostedalsbreen and some other maps.

Glaciers: Ascent of Snehetta, isbre, p. 95. Folgefonni, Bondhusbreen, p. 266—267. Folgefonni, Buarbreen, p. 277—278. Jostedalsbreen, p. 288, 293, 295, 300. Jotunfjellene, p. 303—336. Gl. in Nordfjord, p. 342—345. Gjegnalundbreen (Alfotbreen), p. 359. Svartisen, p. 383, 386. Sulitjelma, p. 385, 386. Lyngenfjord's glaciers p. 393. Seiland, p. 397.

NIELSEN, YNGVAR: Vandringer ved og paa Folgefonnen 1879 [Rambles at and on Folgefonni 1879]. — Den Norske Turistf. Aarb. 1879. Chr.a. P. 53—80.

Hardingskardet, p. 61, a rather narrow canyon. Hundsøret, a nunatak, p. 69.

NILSSON, SVEN: Dagboksanteckningar under en resa från södra Sverige till Nordlanden i Norge 1816 [Diary notices during a journey from Southern Sweden to Northern Norway 1816]. — Lund. 228 p.

Ascent of Snøhetta, easy. All the farmers in the district had ascended it, p. 109—110. Svartisen reached the sea in Fonnfjorden, p. 195—198. Blåmannen (Sulitjelma), p. 202, 206.

PENCK, ALBRECHT: Die Gletscher Norwegens. Mitt. Vereins Erdk. Leipzig. 16 p. (seperate).

Maps of Folgefonni and Jostedalsbreen (1:50 000). Inserted Buarbreen in 1860 and 1878.

TAYLOR, BAYARD: Norway. In his: Picturesque Europe. Vol. 3. New York. P. 1—20, 95—124.

Many illustr. by J. D. Woodward.

The author visited Norway in 1856. Glaciers, p. 20, 95, 96, 104. Woodward's picture of Buarbreen, Folgefonni, shows peculiar wildness, p. 19. Often reproduced.

THOMASSEN, T. CHR.: Geologiske Undersøgelser paa Folgefon [Geological investigations on F.]. — Nyt Mag. Nat. Bd. 24. Chr.a. P. 273—288.

1 fold. col. geol. map of Folgefonni (1:400 000).

Remarks on «cold holes» (kaldehol), which the author thinks to have some connection with the glacier.

Refers to Chr. Smith: Nogle Iagttagelser, 1817, and Johan Vibe: S. Bergenhus Amt, 1896, p. 234.

TØNSBERG, CHR.: Illustreret Norge. Haandbog for Reisende [Norway illustrated. A manual for travellers]. — Chr.a.

1 general map of Jotunheimen, Jostedalsbreen and environments, facing p. 330 (1:800 000).

On glaciers in the text: Jotunheimen, p. 331—358, ill. of Horrungene and Skagastølstindene on p. 351 and 353. Track Tørfjord—Virijaure, p. 417.

A separate of Jostedalsbreen by E. Mohn. Map showing tracks over the glacier.

1880

HELLAND, AMUND: Om fjeldenes høide og om Norges overflades beskaffenhed [On the altitudes of the mountains and on the orographical nature of Norway]. — Den Norske Turistf. Årb. 1880. Chr.a. P. 1—86.

Compare Bergcandidat Schult: Nogle maalte Fjeldhøider i det nordenfjeldske Norge, 1828. — Vibe, A.: Höhenmessungen in Norwegen. — Keilhau, M. B.: Gaea Norvegica, 1850. — Munch, P. A.: Uebersicht der Orographie Norwegens. — Hertzberg, J. N.: Høider i Jotunheimen, 1874.

NIELSEN, YNGVAR: Reisebreve og Folkelivsstudier [Travelling letters and studies of country life]. — Chr.a. 155 p.

Chapter 7, Hardanger, Folgefonna, p. 131—137. Increase 1874—1879, devastated pastures of the farm Buar.

ROBSON, GEORGE (1880—1883): Notes on the Past and Present Glaciation of Norway. — Transact. Inverness Sci. Soc. and Field Club. Vol. 2. P. 178—194.

1881

HOBIRK, F.: Natur und Reisebilder aus Norwegen. — Detmold. 197 p.

Der Folgefond-Gletscher, p. 54—58.

Refers to Forester, Th.: Norwegen u. sein Volk, and to Gottschalk, R.: Unsere Zeit.

NIELSEN, YNGVAR (Meyers Reisebücher): Norwegen, Schweden und Dänemark. — Leipzig.

19 maps, 7 plates.

Glaciers: Hardanger, p. 257—265 (Folgefonna, Hardangerjøkelen). Sogn, p. 268—276. Jotunheimen, p. 276—282. Glacier valleys along the coast, p. 295—296. Svartisen, p. 320. Sulitjelma, p. 321. Lyngenfjorden, p. 329—330.

Nordfjord, Fra . . . Reisebrev til «Morgenbladet» [Travelling letter to M.]. — No. 229 A. Chr.a. 21. 8. 1881.

Glaciers: Alfoten- eller Gjegnalundsbreen, Greidungsbreen, Bødals- og Kjendalsbreene, Briksdals-, Mjølkevolds- og Aabrekkebreene.

PASSARGE, L.: Drei Sommer in Norwegen. — Leipzig. 408 p.

Glaciers in Jotunheimen, p. 274—286, Jostedalsbreen, p. 312—335, 394—405.

SLINGSBY, WM. CECIL: Chips from the Ice-axe. — Den Norske Turistf. Årb. 1881. Chr.a. P. 97—113.

From Jotunheimen, Jostedalen and Sunnmøre.

THOMASSEN, T. CHR.: Isen og Isbræerne [The ice and the glaciers]. — Naturen. No. 7. Bergen. P. 97—107.

After Helmholz.

1882

GEIKIE, ARCHIBALD: Geological Sketches Home and Abroad. — London. 382 p. Part VI. The Old Glaciers of Norway and Scotland, p. 127—166.

Sketch maps, sections and drawings of glaciers. The article appeared first in Proc. Roy. Geogr. Soc. Edinb. Jan. 1866. Edinburgh.

Svartisen, p. 134—149; glaciers in Ringvatsøy and Lyngenfjellene, p. 150. Øksfjordjøkelen, p. 151—158, calving of the jøkel, p. 156; glaciers in Nuvsfjorden (Finmark), p. 158—164.

HANSEN, ANDREAS M.: Jan Mayen. — *Naturen*. Nos. 9–10. Chr.a. P. 146–151.

3 ill., one of which shows 3 glaciers descending from Beerenberg.

Remarks on glaciers.

Jan Mayen. Die Österreichische Beobachtungsstation auf Jan Mayen 1882–1883. Wien. 98 p.

1 map (1:200 000), 1 plate.

MOHN, H.: Jan Mayen. In his: Den Norske Nordhavs-Expedition [The Norwegian North-Atlantic Expedition]. — 1876–1878. — Chr.a. P. 2–29.

1 col. map (1:200 000) showing the glaciers, 9 of which reach to the sea, 2 col. plates, 11 illustr.

Glaciers: p. 3, 8–10, 13, 19, 24, 25. Bibliography.

MOHN, H.: Spitsbergen. In part 3, Geography and Natural History, (of) Den Norske Nordhavs-Expedition [The Norwegian North-Atlantic Expedition]. 1876–1878. P. 32–36.

1 col. map of Adventfjorden, 3 col. plates, pictures from Magdalena Bay showing glaciers.

Glaciers, in the text, p. 33, 34.

RABOT, CHARLES: Un été au-dessus du cercle polaire. — *L'Annuaire du Club Alpin Français*, 1881. Part 14. Paris. P. 261–306.

Ill. from the Sulitjelma Regions and Jøkelfjord.

Red snow, p. 18, Oxtinder, p. 19, Sulitjelma, p. 41 et seq., Jøkelfjord, p. 49. Ascent out the glacier almost impossible.

RABOT, CHARLES: Reisen in Lappland 1880 und 1881. *Peterm. Mitt.* Bd. 28. Gotha. P. 339–342.

Retreat of glaciers reported.

REUSCH, H.: Bræernes Vekst og Aftagen i Norge [Growth and diminuation of the glaciers in Norway]. — *Naturen*. Bd. 2. Bergen. P. 18–19.

Rev. in *Nature*, vol. 25. London. P. 449.

ROLANDSON, MARTIN ANTON: Dagbok hållen vid en resa till Nordpolen eller Spetsbergen . . . år 1758 [A diary of a voyage to the North Pole or Spitsbergen . . . in the year 1758]. — *Ymer*. Årg. 1. 1881. Stockholm. P. 102–141.

Description of «de Sju Isbergen, som aldrig förminskas» [the seven icebergs, which never diminish], p. 106, 129.

1883

CADELL, HENRY M.: Notes on the Glaciation of Norway and Scotland. — *Transl. Edinb. Geol. Soc.* Vol. 4. Edinburgh. P. 227–231.

Ascent of Folgefonni.

Refer to Sexe: Folgefond, 1864, Penck: Die Gletscher Norwegens, and Rodgers. The latter's tall tales of a buried parish, are not mentioned by Sexe and not believed by Cadell. Penck supposes advance of Buarbreen. Refers to *Nature*, vol. 25, London, 1882, review of Reusch's article in *Naturen*, vol. 2, Bergen, 1882.

DAHLL, TELLEF: Geologisk Kart over det Nordlige Norge [Geological map of Northern Norway]. — Förh. Skand. Naturforskarnas 12. möte i Stockholm 1880. Stockholm. P. 281–287.

Jøkelfjordbreen the only of importance reaching the sea. p. 282.

NATHORST, A. G.: Kartläggningen af Tempelbay, ett bidrag til Spetsbergens geografi [The mapping of Tempelfjorden, a contribution to the geography of Spitsbergen]. — Ymer. Årg. 3. Stockholm. P. 130–134.

1 fold. map of Tempelfjorden and of von Postbreen.

RABOT, CHARLES: Le Svartisen. In his: Une excursion dans la Norvège septentrionale. — Ext. du Bull. Soc. Languedocienne de Géographie. Tome 6. Montpellier, 27 p.

1884

CHAVANNE, JOSEF, und C. VON WOHLGEMUTH: Jan Mayen und die österreichische arktische Beobachtungsstation. Wien. 67 p.

1 map, 6 ill.

Survey of glaciers, p. 60–61.

E. B. H. En overgang over Jostedalsbræen [A crossing of J.]. — Den Norske Turistf. Årb. 1884. Chr. P. 1–15.

The route Krondalen-Lom.

MOHN, E.: Jotunheimspanoramaer I, drawing by E. M. Col. fold., inside cover of Den Norske Turistf. Årb. Chr.a.

MUNSTER, THS.: Dagbog fra en Reise i Jotunfjeldene Juli 1882 [a diary from a ramble in Jotunfjellene. July 1882]. — Nyt Mag. Nat. Bd. 28. Chr.a. P. 199–214.

Decrease of glaciers, p. 203.

NATHORST, A. G.: Redogjölrelse för den tilsammans med G. de Geer år 1882 företagna Geologiska expeditionen till Spetsbergen [Report on the Geological Expedition to Spitsbergen with G. de Geer, 1882]. — Bih. Kgl. Svenska Vetensk. Akad. Handl. Bd. 9. No. 2. Stockholm. 78 p.

1 col. fold. map of Spitsbergen, mostly taken from Nordenskiöld's map of 1875.

Glaciers marked down. Remarks on glaciers in the text, e. g. Torellbreen, p. 17.

RIIS, C. P.: Reisende i Hardanger i provst N. Hertzbergs embedstid [Travellers in Hardanger, Southern Norway, during Dean Niels Hertzberg's term of office]. — Den Norske Turistf. Årb. 1884. Chr.a. P. 19–26.

v. Buch, Vargas Bedemar, Breton, Forester and many others paid visits to the famous Dean.

See his article: On travelling in Norway, 1828 and 1929 (repr.) and Grønvold. Didrik: Ældre engelske reiser i Norge. Kr.a. 1906.

Snehatten. Reisebrev til [Travelling letter to] Morgenbladet. No. 212 A. Aug. 3rd 1884. Chr.a.

Description of a vast «kettle», a cirque, south-east of the peak, of the glacier and of a lake on it.

v. WOHLGEMUTH, C.: See Chavanne, Josef . . . 1884.

1885

HEIM, ALBERT: Gletscherkunde (Handbuch der . . .). — Stuttgart.

1 map., 2 plates.

MOHN, E.: Smørstabbæren.

Col. fold. drawing by E. M. 1884, 3 drawings from Sognefjell. All inside cover of Den Norske Turistf. Årb. 1885. Chr.a.

MOHN, E.: Udflugter fra Skjolden i Lyster [Excursions from Skjolden in Luster, Sogn, Western Norway]. — Den Norske Turistf. Årb. Chr.a. 1885. P. 38–47.

MOHN, E.: Et og andet vedkommende Galdhøpiggen [Remarks concerning G.]. — Den Norske Turistf. Årb. 1885. Chr.a. P. 48–64.

SVENONIUS, FREDR.: Studier vid Svenska jöklar [Studies at Swedish glaciers]. — Geol. Fören. Stockh. Förh. Bd. 7. Stockholm 1884–85. P. 5–39.

1 sketch-map of the glacier regions in Norrbotten län.

SVENONIUS, FREDR.: Några ord om Sveriges jöklar [Some remarks on the glaciers of Sweden]. — Ymer. Årg. 4. 1884. Stockholm. P. 39–42.

Refers to Wahlenberg and Forbes.

Snow lines. Decrease of the Sulitjelma glaciers since 1807.

1886

A., O. (ANDERUD, OSCAR): Vattenbygden og Sulitjelma. — Den Norske Turistf. Årb. 1886. Chr.a. P. 1–33.

Some information about glaciers.

Abstr. in Svenska Turistf. Årsskr. Stockholm 1890. Title: Sulitälma. P. 103–114.

BOLDVA, ADOLF BOBRIK VON: Beschreibung der Insel Jan Mayen und Beobachtung der Gletscherbewegung. — Die österreichische Polarstation Jan Mayen. Beobachtungsergebnisse. Bd. 1. Theil 2. Wien. P. 24–50.

1 fold. map (1 : 100 000), 1 fold. map of the station and environment (1 : 25 000).

NIELSEN, YNGVAR: Fra Dalen og fra Fjeldet [From the valley and from the mountain]. — IV. Tjukningssuen (glacier i Jotunheim). X. Skagastølstindene (in Jotunheim), I–III. — Skill. Mag. Bd. 77. Chr.a. P. 378, 547–548, 564, 566, 580, 682, illustr.

PETTERSEN, KARL: Geological map of the region round Vestfjorden, North Norway, showing the glaciers along the frontier Norway–Sweden. — In his article: Vestfjorden og Salten. Arch. Math. Nat. Bd. 11. Chr.a. P. 492.

RABOT, CHARLES: En resa i Nordlanden och Ryska Lappland [A journey in the Scandinavien Countries and Russian Lappland]. — Ymer. Bd. 6. Stockholm. P. 20–26.

Decrease of Svartisen, p. 23–24.

REUSCH, HANS: Fosser i Isbræer [Waterfalls in glaciers]. — Naturen. Bd. 10. Chr.a. P. 27.

WOHLGEMUTH, EMIL EDLEN VON: Vorbericht der wissenschaftlichen Publication der österreichische Polarexpedition nach Jan Mayen. In: Die Österreichische Polarstation, Jan Mayen. — Wien. 120 p.

(Intern. Polarforschung. 1882—1883. Beobachtungsergebnisse. Bd. 1.)

4 fold. maps.

In part 4 some information on glaciers, p. 65.

See Adolf Bóbrik von Boldva: Aufnahme und Beschreibung der Insel Jan Mayen . . . 1886.

1887

MOHN, EMMANUEL: Memurutindene. Veotindene. Col. drawings by E. M. Den Norske Turistf. Årb. Chr.a. Text: P. 117—121.

SLINGSBY, WM. CECIL: Ascent of Stølsnaastind. — Den Norske Turistf. Årb. P. 59—66.

1888

Folgefonden. Slædefart over . . . Reisebreve til Morgenbladet [Travelling letters to M.] Article I appeared July 31. No. 431, article II Aug. 1. No. 432. Chr.a.

From Hardingskard to Odda.

HAUKENÆS, TH. S.: Natur, Folkeliv og Folketro i Søndhordland [Nature, country life and popular belief]. Del VI. Kvindherred. — Bergen. 390 p.

Jøklevatn, p. 47. Bondhusbreen, p. 52 et seq. Istransport, p. 55—57. «Isveien» [the Ice-road]. Kjøretur over Folgefonna [a driving trip over F.] (taken from Morgenbladet July 31. and Aug. 1. Chr.a.).

NIELSEN, YNGVAR: Reisehaandbog over Norge [Guide-book to Norway]. Chr.a.

Jostedalsbreen, tracks over the glacier, p. 254—256. A list of glaciers, p. 398—402.

STRØM, BOYE: Stavanger Amt (Rogaland Fylke). Bd. 11 of Land og Folk. Chr.a.

«Eternal» snow and ice, p. 8, 279.

WARMHOLZ, HUGO: En reise til Nordkap [A journey to North Cape, Norway]. — Ill. Familieblad. Årg. 2. Horten. P. 316—317, 321—322, 332, 340—341, 347—48, 355—358, 361—362, 372, 380.

Glaciers: Ill. of Buarbreen (Folgefonna) (p. 361) and of Galdhøpiggbreene (p. 380).

The picture of Buarbreen is reproduced from Bayard Taylor's Picturesque Europe, vol. 3, New York 1879.

1889

BAYER, TH. VON: Ueber den Polarkreis. — Leipzig. 342 p.

1 fold. map. 5 ill.

Glaciers: Svartisen («der mächtigste Firn Norwegens»), p. 77. Sulitjelma, p. 144. Lyngenfjord, p. 172, 307. Seilandsjøkelen, Jøkelfjordsbreen, p. 264, 275—276.

Picture: Jøkelfjordsbreen reaches to the sea (a calving seen).

GLÜCKSTADT, CHR.: Sundalens og Øksendalens Beskrivelse [The description of S. and Ø.]. Chr.a. 129 p.

Fjeldtinder [peaks] with glaciers, p. 6–10. Snow slips called «calving», p. 7.

See E. Mohn, 1890.

TØNSBERG, CHR.: Norge fremstillet i Tegninger med kortfattet oplysende Text [Norway represented in sketches with short informatory texts].— Chr.a.

Glaciers: Bondhus(Mauranger)bræen, p. 26. Folgefonni, p. 27. Justedalsbræen, p. 32, Horungene, p. 33. Svartisen, p. 58. Lyngsfjorden, p. 59.

1890

A., O. (ANDERUD, OSCAR): Fra Vattenbygden og Sulitjelma [From Vattenbygd Parish and Sulitjelma]. — Den Norske Turistf. Aarb. 1889, printed 1890. Chr.a. P. 31–39.

3 plates (phot.).

The first ascent of Stortoppen.

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Passages: Fjærland–Stardal, p. 23–28. The best known passage over the southern part of Jostedalsbreen «was from time immemorial that of Lundeskard», p. 28. Amot–Veitstrand, p. 29–34. Fåberg–Stryn: «Horses and cattle are driven over it in immense numbers, last summer as late as St. Hans Tid» (1890). «Reopening of the various passes over the snow-field . . . trodden by good folks of 100 years ago . . . The shrinkage of the glaciers . . . increased the difficulties of the passes . . . long ago forgotten», p. 37. Justedal–Lom, p. 37. Rauddal–Sundal or Greidung. «The horse and cattle pass, undoubtedly the best known of all, and is extremely useful, and equally beautiful», p. 38 et seq. Krongdal–Sundal the best passage «after the Greidung to Fåberg way», p. 39. Routes and «times», p. 39–41. Mostly about 14 hours over the snow-cap. Ascent of Lodalskåpa, p. 41–52.

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- B. Old passages, abandoned about 1814: 1), 2, 3) and 4) Loen—Jostedal along different routes over the broadest part of the snow-field down to Krundalen. 7) Olden—Jostedal. 8) Jølster—Veitestrand. Disasters frightened people from using the B-routes.

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VI.	»	»	»	IX.	» 3. 1901.	»	»	»	5th.
VII.	»	»	»	X.	» 3. 1902.	»	»	»	6th.
VIII.	»	»	»	XI.	» 3. 1903.	»	»	»	(6)7th.
IX.	»	»	»	XII.	» 3. 1904.	»	»	»	8th.
X.	»	»	»	XIII.	» 4. 1905.	»	»	»	9th.
XI.	»	»	»	XIV.	» 5. 1906.	»	»	»	10th.
XII.	»	»	»	XV.	» 1. 1908.	»	»	»	11th.
XIII.	»	»	»	XVI.	» 7. 1908.	»	»	»	12th.
XIV.	»	»	»	XVII.	» 7. 1909.	»	»	»	13th.
XV.	»	»	»	XIX.	» 1. 1911.	»	»	»	14th.
XVI.	»	»	»	XIX.	» 1911.	»	»	»	15th.
XVII.	»	»	»	XXI.	» 5. 1913.	»	»	»	16th.
XVIII.	»	»	»	XXI.	» 8. 1913.	»	»	»	17th.
XIX.	»	»	»	XXIII.	» 6. 1915.	»	»	»	18th.
XX.	»	»	»	XXIV.	» 5. 1916.	»	»	»	19th.

Variations of glaciers since 1914. — Union Intern. Géod. Géophys.
Ass. Intern. d'Hydrol. Sci.

1. report, 1914–28 par/by P. L. Mercanton. Venice 1930. 7. P. 52–53. Also in Bull. 14 Rapp. Comm. Glaciers. Venice 1930.
2. » 1928–32 par/by P. L. Mercanton. Oslo, Lausanne 1933. P. 230, 250. Also in Bull. 20. Rapp. Glaciers. Lisbonne 1933.
3. » 1933–35 par/by P. L. Mercanton, Edinburgh 1936. P. 431, 454–455.
4. » 1935–38 par/by P. L. Mercanton. Washington 1939. P. 3, 15–16.
5. » 1939–47 par/by K. Faegri. Oslo 1948. P. 260–261.
6. » 1947–50 par/by P. L. Mercanton. Bruxelles 1951. P. 108, 116, 117.

VIBE, JOHAN: Buskerud Amt (in) Norges Land og Folk. B. 6. — Chr.a.
Chapter Vidda (i. e. Hardangervidda): Stray snow patches, p. 88–89.

» Hallingskarvet: Remarks on glaciers, p. 127–128.

1896

BING, KRISTIAN: Ture paa Folgefonna til og med 1895 [Tours on F. up to and including the year of 1895]. — Bergens Fjellmannalags Aaroversyn 1896. Bergen. P. 4–9.

Glacier decrease «during the last 25–30 years», p. 4. Remarks about the name 'Folgefonn'. Traffic over the Fonn before the time of steamships. Route 1, Jondal-Reisæter. Route 2, Mauranger—Hardingskard—Tokheim. Route 1 goes today north of the Fonn proper. Route 2 very secure, even in misty weather. From 1888 sledge conveyance, from 1895 with reindeer.

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BONNEY, T. G.: *Glacial Handbook*. London. — XVI, 296 p. Rev. in *Nature*, vol. 53, London. P. 433–434.

CASPARI, J.: *Turistruter fra Lyngnehavøen . . .* [Turist routes on the Lyngen Peninsula]. — *Den Norske Turistf. Arb. Chr.a. P. 39–60*.

Phot.

Information on the glaciers of the region.

DE GEER, GERARD: *Rapport om den svenska geologiska expeditionen till Isfjorden på Spetsbergen sommaren 1896* [Report on the Swedish Geological expedition to Isfjorden in Spitsbergen in the summer of 1896]. — *Ymer*. 16. Årg. Stockholm. P. 259–266.

8 glaciers named, mapping and photographing done.

Glacier measurement, p. 264–265.

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Phot., profiles, sketches.

Norway, p. 721–724 (no recent glaciers), Spitsbergen, p. 739–741.

GREGORY, J. W.: *The Conway Expedition to Spitsbergen.* — *Nature*. Vol. 54. London. P. 437–438.

Also glaciology.

HEIM, ALBERT: *Panorama fra fjeldryggen mellem Suphellenipa og Skeisnipa* [View from the Mountain Ridge between Suphellenipa and Skeisnipa (nipe = peak) in Fjærland Parish, Sogn]. — *Bergens Fjellmannalags Aarsoversyn*. Bergen. P. 16.

HERTZBERG, J. N.: *Brægjennembrydning* [Outburst of a glacier lake]. *Morgenbladet*, April 26th. Extranummer 17. P. 67.

The author also speaks of «Lausavatn» (loose waters), a lake at Folgefonna, and possible outbursts of these ice-dammed loose waters.

Jostedalsbreen in 1896. St. prp. No. 1 Hovedpost VII. 519. Vasdragsvæsenet. P. 17–18. Proposed a regulation of the Hjelldal River in Stryn, Nordfjord. Flows from Jostedalsbreen damage farms.

KOREN, AUGUST: *Gjegalundsbræen eller [or] Aalfotbræen i Nordfjord.* — *Den Norske Turistf. Arb. Chr.a. P. 114–115*.

MOCKLER-FERRYMAN, A. F.: *In the Northmen's Land*. London. 316 p.

1 sketch-map of the Hardanger district. Phot. of Folgefonn glaciers facing p. 58, 142, 151, of Hardangerjøkelen, p. 308.

From the crest of the Fonn Jostedalsbreen could be seen as well as Hardangerjøkelen and other glaciers north of the Fjord, p. 61–64. Crossing the Fonn in a sleigh, crisp surface, drive 1½ hour. The very first crossing in a sleigh in 1888. The Ice Road and the ice export from Bondhusbreen, p. 67. The legend of the Holy Cross of Røldal being brought up Krossdalen and over the Fonn, p. 81. Old men had witnessed the birth of Buarbreen. From 1870 rapid advance. Telltales about the origin of Folgefonni (the people were punished for regicide), p. 141. The buried Folgedal, p. 142. Osafjorden. Cold and warm holes. Solskinnstjern, p. 167, 168. Demmevatn; outburst in 1893, p. 186–187, 193, and in Appendix III, p. 308–311.

NIELSEN, YNGVAR: Reisehaandbog over Norge [Guide-book to Norway]. — Chr.a.

Mjølkedalbreen, p. 176. Outburst 1878, 1894. Strupebreen, Lyngen, p. 369. Old people maintained (1880) that they in their youth had heard old people say there was no glacier in the Strupen Pass when the latter were young. That glacier therefore came into existence after 1740–1760.

N(ISSEN), P.: Demmevandet [The ice-dammed lake Demmevatn at Hardangerjøkelen]. — Morgenbl. Extranumer No. 43, 25/11–96. P. 169–170.

Robert Munro mentioned (Edinburgh 1892–1893).

Tunnel begun.

ØVERLAND, A. O.: Jotunheimens opdagelseshistorie. Historiske fortællinger no. 18 [The history of the discovery of J. Historical tales No. 18]. — Chr.a. 126 p.

Information about the discoveries by Bohr, Boeck and Keilhau.

ØYEN, P. A.: Dæmmevand. Et bidrag til Hardangerjøkelens geologi [Demmevatn. A contribution to the geology of H.]. — Berg. Mus. Aarb. 1894–95. Nat.vid.sk. række No. 3. Bergen. 15 p.

1 sketch-map, bibliography.

ØYEN, P. A.: Hardangerviddens geologiske og archæologiske forhold [Geological and archeological conditions of H.]. — Ibid. No. 4. Bergen. 23 p. Bibliography.

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REUSCH, HANS: Aarbog for 1894 og 95 [Year-book for 1894 and 95]. — Norges Geol. Unders. No. 21. Chr.a. VI, 148 p.

Geological literature concerning Norway for 1894–1895.

RICHTER, EDUARD: Beobachtungen über Gletscherschwankungen in Norwegen 1896. Peterm. Mitt. Bd. 42. Gotha. P. 107–110.

RICHTER, EDUARD: Norvège. — Les variations périodiques des glaciers. 1^{er} rapport. — Arch. Sci. phys. nat. Tome 2. Genève. P. 141–142. See Peterm. Mitt. Bd. 42. Gotha.

RICHTER, EDUARD: Die Gletscher Norwegens. — Geogr. Zeitschr. Bd. 2. Leipzig. P. 305–319.

A survey of works by Durocher, Forbes, Naumann, Øyen, Penck, de Seue, Sexe, Wahlenberg. 2 sketches, some other ill. 2 profiles.

RICHTER, EDUARD: Geomorphologische Beobachtungen aus Norwegen. — Akad. Wiss. Wien. Sitzungsber. Math. Nat. Klasse. Bd. 105. Abteilung 1. Wien. P. 147—189.

1 sketch-map, 4 sketches.

Information about cirques and culs-de-sac (Sacktäler).

RICHTER, EDUARD: Aus Norwegen. — Zeitschr. Deutsch u. Österr. Alpenvereins. Jahrg. 1896. Bd. 27. Innsbruck (printed in Munich). 35 p. 10 phot.

Glaciers, p. 11—12, 14—15.

VIBE, JOHAN: Søndre Bergenhus Amt (= Hordaland, Western Norway), Bd. 12. In: Norges Land og Folk. Chr.a. 464 p.

Stray remarks on glaciers under the description of the parishes:

Bondhusbreen, p. 135—134. Folgefonna, p. 145—147. Buarbreen, p. 212, 225, 227, 229. Hardangerjøkelen, p. 230, 242, 245, 263—264. Vosseskavlen, Osaskavlen and other glaciers, p. 247, 252, 260, 263—264, 270, 271, 300, 312, 324. Waterflow phenomena: In Kjerringbotnen, p. 118—119, in Londalen, p. 119, in Blomsterskardvatn, p. 120, in Solskinnstjern, p. 266, Demmevatn, p. 244. Lausavatn, p. 232. Cold and warm holes, p. 266. Crossings of the Fonn prohibited at intervals, compare Ramus 1715. Export of glacier ice, p. 134 and 230.

1 map (1 : 400 000).

1897

CONWAY, Sir W. MARTIN: The First Crossing of Spitsbergen . . . 1896. London. 371 p. See article in Geogr. Journ. that year.

2 maps, 8 col. plates, reproduced from sketches by Conway, about 100 ill. in the text. Rev. by A. G. Nathorst in Ymer, bd. 17, 3, Stockholm. P. 249—252.

CONWAY, Sir W. MARTIN: The First Crossing of Spitsbergen. 1896. — Geogr. Journ. Vol. 9. London. P. 353—368.

1 fold. map, 6 plates. Also a special book with this title, see above.

Rcv. in Geogr. Journ. vol 10, London, p. 179—180; in Ymer, bd. 17, 3 (see above) and in Spitsbergen Gazette, Oct., Hammerfest.

«The glaciers in Spitsbergen are for the most part advancing», p. 367.

DE GEER, G.: Von Post-glaciären på Spetsbergen. Referat av ett föredrag [Von Post breen in Spitsbergen. Report of a lecture]. — Geol. Fören. Stockh. Förh. Bd. 19, 7. Stockholm. P. 185—186.

1 map (1:50 000) with lines showing the retreat of the glacier.

GARWOOD, EDMUND J.: Across Spitsbergen with Sir Martin Conway. — Alpine Journ. Vol. 18. London. P. 363—384, 425, 426.

1 fold. plate. 3 other phot.

GATTY, VICTOR H.: A Spitsbergen Glacier Expedition. — Alp. Journ. Vol. 18. London. P. 501—506.

Foxbreen explored.

H W.: Til Dæmmevand om Vinteren [To the ice-dammed lake Demmevatn in winter-time]. — Morgenbl. Extranumer. Chr.a. P. 74.

Repeated devastating of farms trough outbursts of the lake. Tunnel being built.

HAMBERG, AXEL: Om glaciärernas parallelstruktur [On the parallel structure of the glaciers]. — Geol. Fören. Stockh. Bd. 19. Stockholm. P. 522–536.

Examples from Spitsbergen.

HELLAND, AMUND: Lofoten og Vesteraalen. — Norges Geol. Unders. No. 23. Chr.a. 545 p.

Snefonner og snegrændser [Snow-fields and snow lines], p. 19–29. Bræer [glaciers], p. 20. Forest lines, p. 247–249.

HOWORTH, Sir HENRY H.: The Geological Recent Origin and the Surface of Scandinavia and Finland — Geol. Mag. Vol. 4. London. P. 355–361, 397–404.

HULL, EDW.: Sir Henry H. Howorth and the Glaciation of Norway. — Geol. Mag. Vol. 4. London. P. 453–457.

MARTENS, D. B.: En vandring i [A ramble in] Nordfjord — Øvre Gudbrandsdalen og Lyster Sommeren 1853. — Turistf. Bergens by. Bergen. P. 20–50.

From Sundal–Sundalsseter, over a snow-field to Leirvatn, then Rauddal–Otta.

«Store Rasmus», a big cairn on the frontier between Nordfjord and Gudbrandsdal, very old, p. 37. Avalanche in Sundal.

REUSCH, HANS: Isbræernes vekst og aftagen [Growth and shrinkage of the glaciers]. — Den Norske Turistf. Årb. Chr.a. P. 62.

STRINDBERG, NILS: Karta öfver Amsterdamön med Omgifningar [map of Amsterdam Island and environments]. — Ymer. Bd. 17. Stockholm. P. 13–16.

1 sketch-map, 1 fold. map (1 : 40 000) showing several glaciers seen from Foul Bay southwards.

SVENONIUS, F.: Le Spitzberg. — Les variations périodiques des glaciers. He rapport. — Arch. Sci. phys. nat. Tome 4. Genève. P. 225.

WEGENER, GEORG: Zum Ewigen Eise (Spitsbergen): — Berlin. 359 p.
2 maps, many phot.

Glaciers, p. 202–204, 215–220.

1898

BING, KR.: To langture paa Jostedalsbreen [Two long tours on J.]. — Turistf. f. Bergens by. Aarb. Bergen. P. 12–19.

Jostedalsbreen traversed.

CONWAY, Sir W. MARTIN, and E. J. GARWOOD: The Spitsbergen Glaciers. Report of a lecture in the Roy. Geogr. Soc. London. — Nature. Vol. 57. London. P. 472–743.

CONWAY, Sir W. MARTIN, and E. J. GARWOOD: An Exploration in 1897 of some of the Glaciers of Spitsbergen. — Geogr. Journ. Vol. 12. London. P. 137–158.

1 fold. map, 1 diagr., 9 phot. A summary of Conway, W. M.: With Ski and Sledge over Arctic Glaciers. London. The exploration also

mentioned by A. G. Nathorst in *Ymer*, bd. 17, 1897. See W. M. Conway, 1897.

CONWAY, Sir W. MARTIN: *With Ski and Sledge over Arctic Glaciers*. — London. 240 p.

1 fold. map of Central Spitsbergen (1:430 000). Inserted 1 sketch-map of Horn Sound. Several phot. taken by Garwood. See also: Conway and Garwood: *An Exploration . . .* 1897.

GARWOOD, E. J.: *An Exploration in 1897 of some of the Glaciers in Spitsbergen*. Report of a lecture in Roy. Geogr. Soc. London. — *Geogr. Journ.* Vol. 12. London. P. 151—155.

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GARWOOD, E. J., and J. W. GREGORY: *Contribution to the Glacial Geology of Spitsbergen*. — *Quart. Journ. Geol. Soc. London.* Vol. 54. London. P. 197—225.

Abstr. *Geol. Mag. London* 1898. New Ser. Decade 4. Vol 5. London. P. 178—179. — *Phil. Mag.* Vol. 45. London. P. 541—542. — *Nature*, vol. 57. London. P. 405—406. Further: Gregory, J. W.: *Across Spitsbergen*. London.

GREGORY, J. W.: *Across Spitsbergen*. — *Trans. 6th Annual Report. Liverp. Geogr. Soc.* 1897. Liverpool. P. 41—58.

GREGORY, J. W. See Garwood and Gregory . . . 1898.

HELLAND, AMUND: *Søndre Trondhjems Amt (Sør-Trøndelag fylke)*. Bd. 16, 4. In his: *Norges Land og Folk*. Chr.a. 2 parts, 514, 584 p.

Chapter *Evig sne og is* [Perennial snow and ice], part 1. P. 25.

Glaciers also mentioned in the description of some parishes in part 2. *Oppdal (Snøhetta)*, p. 200, 202. *Ålen*, p. 255. *Selbu* (bordering to the Swedish Syl-glaciers), p. 430, 437. Also part 1, p. 17.

1 fold. map (1:400 000).

Jøkelfjordbreen. Ascent of (1898) by G. Hastings and Elias Hogrenning. Report to Bergens Fjellmannalags Aarsoversyn. Bergen. P. 2.

MARTINS, BROCK: *Austerdalsbræ — Kattenakken*. — *Turistf. f. Bergens by*. Aarb. Bergen. P. 51—58.

MYHRE, W.: *En fodtur i Sulitjelmatrakten* [A ramble in the Sulitjelma Region]. — *Den Norske Turistf. Årb.* 1897. Chr.a.

The first ascent of Blåmannen, 5 100 feet above sea level, p. 33—34.

III.

NATHORST, A. G.: *Le Spitzberg. — Les variations périodiques des glaciers*. 3^e rapport, 1897. *Arch. Sci. phys. nat.* Tome 6. Genève. P. 41—44.

See Øyen, P. A., *ibid.* p. 40—41.

NIELSEN, YNGVAR: *Fra Nordland* [From N.]. — *Den Norske Turistf. Årb.* 1897. Chr.a. P. 40—57.

Frostisen, p. 51—52. The author met with Ch. Rabot in these regions in 1880, p. 42.

ØYEN, P. A.: Norvège. — Les variations périodiques des glaciers. 3^e rapport, 1897. Arch. Sci. phys. nat. Tome 6. Genève. P. 40—41.

See Nathorst, A. G., *ibid.* pr. 41—44.

ØYEN, P. A.: Bidrag til Jotunfjeldenes glacialgeologi [Contributions to the glacial geology of J.]. — *Nyt Mag. Nat. Bd.* 36. Chr.a. P. 13—65.

3 sketch-maps.

PIKE, ARNOLD: A Cruise on the East of Spitsbergen. — *Geogr. Journ.* Vol. 11. London. P. 365—371.

4 phot. 1 profile.

A glacier on Kong Karls Land, p. 366.

RABOT, CHARLES: Au Cap Nord. Itinéraires en Norvège, Suède, Finlande. — Paris. 366 p.

Information on glaciers.

Rev. by A. Kempe in *Ymer*, bd. 18, Stockholm, p. 349—350, and by

F. Nansen in *Den Norske Turistf. Årb.* 1929, p. 11—13. 1 phot.

Strupeskardet [The Strupen Pass, 1898].

Messrs. Wm. Cecil Slingsby, G. Hastings, P. Hasket-Smith (England), J. Caspari and Elias Hogrenning (Norway) passed on their way in Strupenskardet an ice-dammed lake, brought into being as the Demmevatn, Hardanger.

Report to Bergens Fjellmannalags Aarsoversyn, Bergen, p. 2.

WEBER, HEINRICH: Die Entwicklung der physikalischen Geographie der Polarländer. — München. 250 p.

Refers to the King's Mirror (*Speculum Regale*, c. 1220, to Saxo Grammaticus, *Praefatio*, c. 1206 and to Friedrich Martens' investigations in Spitsbergen (1675).

1899

BING, KR.: Om turistbesøget i tre af vore mærkeligste isdaler [On the turism in three of our grandest Ice Valleys]. — *Turistf. f. Bergens by.* Aarb. Bergen. P. 50—55.

On glaciers in Briksdalen, Langedalen, Austerdalen.

BING, KR.: Paa langs over Jostedalbræen [Traverse of J.]. — *Den Norske Turistf. Årb. Chr.a.* P. 101—109.

«Unmistakable signs» of decrease of Rauddalsbreen.

CONWAY, Sir W. MARTIN, and. E. J. GARWOOD on Nordenskiöldbreen in Spitsbergen (1897). Prelim. report. — *Alp. Journ.* Vol. 19. London. P. 66—67.

DE GEER, GERARD: Nya bidrag till Spetsbergens geologi [New contributions to the geology of Spitsbergen]. — *Förh. skand. naturf. möte* 1898. Stockholm. P. 229—231. Report of a lecture.

Retreat in 1886 of von Postbreen — since 1882. Advance of Sefströmbreen.

GARWOOD, E. J.: Additional Notes on the Glacial Phenomena of Spitsbergen. — *Quart. Journ. Soc. London.* Vol. 55. London. P. 681—691.

Map, phot.

Glacial lakes frequent.

- Rev. in *Geol. Mag. New Ser. Decade 4. Vol. 6*, London, p. 430–431, in *Phil. Mag. Vol. 48*, London, p. 411, and in *Nature*, Vol. 60, p. 239.
- GARWOOD, E. J.:** See Conway, Sir W. Martin, 1899.
- HASTINGS, G.:** See Woolley, H., 1899.
- HASTINGS, G., WILLIAM SLINGSBY and others:** *The Lyngen District* (1898). *Alp. Journ.* Vol. 19. London. P. 356–363, 611–615.
 Strupebreen, p. 357. An ice-dammed lake. Outburst, p. 358.
- HASTINGS, G.:** *Ascent of the Jökél Glacier.* *Ibid.* P. 363. (Report in *Bergens Fjellmannalags Aarsoversyn.* Bergen 1898. P. 2.)
 «The only one (glacier) that calves in the sea». The ascent undertaken Aug. 16th by Hastings og Elias Hogrenning.
- HELLAND, AMUND:** *Tromsø Amt* (Troms fylke). Bd. 19 of his *Norges Land og Folk.* Chr.a. 2 parts. X, 592, 390 p.
 1 Fold map of the country (1 : 400 000), bibliographical notices.
 Bræer [glaciers]: A general view in part 1, p. 56–58. Also mentioned in the descriptions of the parishes in part 2 as: Ibbestad, p. 105, 106, 108 (mighty glaciers); Salangen, p. 123; Dyrøy, p. 131; Tranøy, p. 144; Berg, p. 156; Mellesøy, p. 167; Målselv, p. 190–195; Bardo, p. 216–218; Balsfjord, p. 241, 242; Tromsøysund, p. 257; Lyngen, p. 272, 279, 283, 284 (vast glaciers); Karlsøy, p. 303; Helgøy, p. 313; Skjervøy, p. 322, 323; Nordreisa, p. 336; Kvenangen, p. 348, 349 (a vast nevé, which sends its glaciers quite down to Jökelfjord). The ice-dammed lake at Strupebreen, p. 1, 58.
- HOGRENNING, ELIAS:** See Hastings, G., 1899 and *Strupesketret* 1898.
- HUUN, DANIEL:** *Fra Bræer og Høifjelde* [From glaciers and mountains]. *Turistf. f. Bergens by.* Aarb. Bergen. P. 5–32.
 3 sketches of glaciers.
- IMBODEN, JOSEPH:** See Main, E., 1899.
- LORENZEN, A.:** *König Karls Land.* — *Globus.* Bd. 76, 2. Braunschweig. P. 80–81.
 3 sketchmaps.
 Glaciers: *The Oval Ice-cap, Kükenthalbreen.*
- MAIN, E., and JOSEPH IMBODEN:** *The Lyngenfjord District* (explored 1898). — *Alp. Journ.* Vol. 19. London. P. 257–261.
- NATHORST, A. G.:** *Geography of King Charles Land.* In: *The Swedish Arctic Expedition of 1898.* — *Geogr. Journ.* Vol. 14. London. P. 161–168.
 1 fold. map facing p. 128 (1 : 250 000), phot.
 Glaciers: p. 161, 164, 165.
 About the same in Nathorst, A. G.: *Kung Karls Land.* Ymer, vol. 19, Stockholm 1900.
- NATHORST, A. G.:** *Le Spitzberg, Terre du roi Charles, Giles Land (Ile Blanche).* — *Les variations périodiques des glaciers, 4^e rapport, 1898.* — *Arch. Sci. phys. nat.* Tome 8. Genève. P. 43–44.
- NIELSEN, YNGVAR:** *Reisehaandbog over Norge* [Guide-book to Norway]. — Chr.a.
 Folgefonna, p. 230–231.
 1 fold col. map. (1 : 400 000).

Jotunfjellene and Jostedalsbreen, p. 159–191, 265–268, 285–289.

1 fold col. map. (1 : 175 000).

Flow in Mjølkedøla, 1879 and 1894, p. 176.

Strupebreen, Lyngen, p. 385.

(Supposed to have come into existence since 1760.)

PALLESKE, R.: Gletscherforschungen im Sulitjelma-Gebiet. — *Globus*. Bd. 76. Braunschweig. P. 322–323, 506.

Some notes in Bd. 75, p. 19–20. Mostly on Westman's researches.

SLINGSBY, WM. CECIL: Mountaineering in Arctic Norway. — *Alp. Journ.* Vol. 19. London. P. 414–437.

2 phot.

He met with Professor Helland on Lyngseide, told him of the outburst of an ice-dammed lake on Strupebreen.

See Helland: Tromsø Amt, 1899, p. 1, 23 and 57–58.

SLINGSBY, WM. CECIL: See Hastings, G., William Slingsby and others . . . 1899.

WESTMAN, J.: Jökelstudier vid Sulitelma [Glacier studies at Sulitjelma]. Svenska Turistf. Årsskr. Stockholm. P. 317–337.

1 sketch-map of the Salajekna and the Stuorajekna, 8 phot. in the text. 1 fold. plate, phot. of the Salajekna.

See Palleske, R., in *Globus* 1899.

WOOLLEY, H., and G. HASTINGS: In the Lyngen District 1897. — *Alp. Journ.* Vol. 19. London. P. 55–56. See Helland, Amund: Tromsø Amt, 1899, part I, p. 23.

Information on glaciers on Jækkevarre.

1900

BRUCE, WILLIAM S.: Spitsbergen, 1898 and 1899. Voyages with H. S. H. the Prince of Monaco. — *Scot. Geogr. Mag.* Vol. 16. Edinburgh. 16 p. (separate).

1 fold. map of Spitsbergen showing Bruce's routes and many of the glaciers in West-Spitsbergen. Phot. of glaciers.

Remarks on glaciers in the text, p. 9, 11, 13–15. Retreat, p. 14–15.

Rev. in *Globus*, Bd. 78, Braunschweig, p. 230–231.

CARLHEIM-GYLLENSKÖLD, V.: Travaux de l'expédition suédoise au Spitsbergen en 1898 pour la mesure d'un arc méridien. No. 2. Geologiska anteckningar [Geological notes]. — Svenska Vetensk. Handl. Öfvers. Årg. 56, 1899, Stockholm. P. 887–900.

Chapter X. Glacialfenomen, p. 900: Advance and retreat of glaciers.

CARLHEIM-GYLLENSKÖLD, V.: Åttionde Breddgraden . . . sommaren 1898 [On the 80th degree of Latitude in the summer of 1898]. — Stockholm. 256 p.

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2. Bergen—Hardanger (western part), 1 : 400 000, facing p. 270, showing part of Folgefonni.
3. Hardanger—Odde—Haukelifjeld—Røldal, 1 : 400 000, facing p. 288, showing Folgefonni and smaller glaciers. Text: p. 279—280, 289, 292, 293, 299.
4. Sogn—Vik—Lærdalsøren—Gudvangen—Hardanger—Graven—Vossegangen, 1 : 400 000, facing p. 306, showing Hardangerjøkelen and some minor glaciers. Text: p. 128—130, 132, 291, 292, 294.
5. Sogn (Eastern part)—Gloppen—Fortun—Aardal—Lærdalsøren, 1 : 400 000, facing p. 316, showing Jostedalsgreen.
6. Nordfjord—Aalesund—Geiranger, 1 : 400 000, facing p. 336, showing part of Gjegnalundsgreen, part of Jostedalsgreen. Text: p. 341 (Gjegnalundsgreen).
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Fåbergstølsbre advanced across the Jostedal River ca. 1740, p. 44.

Refers to Naumann and Bohr.

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2 maps, 5 phot., 1 diagr.

Blomsterskardvatn, ice-dammed, p. 16 et seq.

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Vol. 2, p. 122, *Passe javre* = Holy Tarn – in the Sulitjelma Region, see *Wahlenberg*, 1808, p. 32. Many *Passe varre* = Holy mountains. P. 166, *Sulitjelma* = *Högtidsberget* = High Tide Mountain. The Lapps paid homage to the Mountain God.

Vol. 3, p. 61: Altitudes of Sulitjelma, snow and forest lines.

GRØNVOLD, DIDRIK: *Ældre engelske reiser i Norge 1821–28!* Early travels in Norway, 1821–1828! – *Den Norske Turistf. Aarb.* 1906. Kr.a. P. 1–47.

16 ill.

Dean Hertzberg's register of travellers, p. 2; Mr. Price's ascent of *Snøhetta* in 1826, p. 19, ill. of *Snøhetta* facing p. 20; Mr. Everest in *Lyngen*, p. 35, export of ice from *Folgefonna*, p. 43. His ascent of *Seilands-jøkelen*, p. 35, 46–47 (after B. M. Keilhau, 1831).

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3 sketch-maps.

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1 sketch map of the Austerdalsbre, a branch of the Jostedal Glacier.

STRØM, H.: See Wiinggaard, Hans, 1762 (1906).

THONER, JUST: Fra Njarggas Fjorde og Jøkler [From the fjords and glaciers of Alnas Njarggas, North Norway]. — *Den Norske Turistf. Årb. Kr.a.* P. 71—88.

5 phot.

In Jøkelfjord the only place in Norway proper where a glacier reaches the sea.

1907

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1 sketch-map, 5 phot.

Glaciers: p. 153.

Glaciers in Norway. Bødalsbreen, Jostedalen, Buarbreen, Hardanger. — *Ill. Familiebl.* 21. Aarg. Horten. P. 365, 367 and 404, 407.

Phot.

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Phot. Refers to Leopold v. Buch and Göran Wahlenberg.

Conclusion: No snowline in Scandinavia, the Alps, and the Polar Regions.

HELLAND, AMUND: Nordlands Amt (Fylke). Bd. 18. In his: *Norges Land og Folk*. — Kr.a. 1907—1908. 4 parts. P. 794, 795, 608, 1003.

1 fold. hydrographical map of the country (1:400 000), 1 fold. map of Northern Norway (1:1 mill.), 1 fold. map of Svartisen (1:100 000). Breer [glaciers]: A general view in part 1, p. 109—147. Glaciers also mentioned in the descriptions of the parishes, in part 3 and 4. Part 3: Mo, p. 453, 458, 460, 461, 467. Rødøy, p. 542, 545. Meløy, p. 578. Part 4: Gildeskål, p. 7, 8, 10. Beiaren: p. 51—55, 58, 60. Fauske, p. 163—171. Sørfold, p. 278, 279. Nordfold, p. 301, 302. Tysfjord, p. 417, 418. Ankenes, p. 436—447. Lødingen, p. 494. Vågan, p. 534. Hadsel, p. 716, 717.

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2 phot.

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On Fasc. IX Jostedalsbreen and Folgefonna is marked (1586–1600).

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III. Det vestenfjeldske Norge. 7. Hardanger — 1 fold. map facing p. 63.

Folgefonna, p. 39–40, 48, 53, 54. Hardangerjøkelen, p. 51–52. Buarbreen advancing.

13. Sogn. Jostedal, p. 84–86, 105–111. Map facing p. 105.

Jotunheimen, Mjølkedal River, p. 92. Outbursts: 1879, 1894, 1899.

Ålfot- og Gjegnalundbreen, p. 104. Map facing p. 101.

IV. Det nordenfjeldske Norge.

Fold col. map of Svartisen facing p. 85.

Okstindene, p. 73. Svartisen, p. 84–86. Sulitjelma, p. 93. Frostisen, p. 98. Glaciers in the Troms Mountains, p. 115–117, calving, p. 118.

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1 sketch-map, 10 phot.

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Many phot.

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1 fold. map of the county (1:400 000).

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2 phot.

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XIII, XIV, XV (diagr.), XVIII, XIX, XX, XXI, XXII, XXIII.

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» 232 from 1724 shows Eysbergen in Hinlopen Strait.

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a mountain with difficult passages. It is therefore possible that the tracks over to Nordfjord from Jostedal are as old as this southern one. Disasters happened in either, p. 25. Vestiges from the ermine on the snow-field indicate secure passage, p. 25. The track Jostedal—Gudbrandsdal over Handspikje much used. Traffic to Røros and Romsdal, p. 26. Drove of cattle and horses over Jostedalsbreen up to about 1900, 2–4 hours over the Bre proper, p. 27.

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An old sledge way up Krossdal to Krosstu. The pilgrim track very old, leading to Røldal and continuing to Eastern Norway from there. Horse droves along the track to the market in Kongsberg about 1869, p. 83. Near the Church of Jondal there is a mound called Austmannhaugen [The mound of the Eastman]. People from East Norway were called austmenn. The name indicate that the traffic must have been considerable. Pilgrimages to the Holy Cross of Røldal lasted to 1835, p. 85.

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1 sketch-map of Digranes, 1 sketch-map of Lausavatn, 3 maps showing the temperature in the region during the time of the avalanche.

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Fresvikbreen, p. 31–32. Decrease.

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The arrow finds in Oppdal and Dovre. Minimum about A. D. 400–500. Perhaps little left at that time of the «eternal snow», p. 233. Maximum about 1748.

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Sulitjelma, p. 363–364.

BROOKS, C. E. P.: The Climatic Change of the Past Thousand Years. — *Experientia*. Vol. 10. Basel. P. 153–158.

Glaciation: Minimum about 900–1000 in Iceland and Norway, p. 155.

Glaciers were expanding during the 13th century and had their first maximum about 1650. (Refers to Ahlmann, Hans W:son: *Glacier Variations and Climatic Fluctuations*. New York (Bowman 1953).

The second maximum came about 1750. Retreat since then.

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Glacier-dammed lakes.

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Text map.

Glaciers near the Jekkevarre Icecap investigated.

LAUSCHER, F.: Schneedichten in Norwegen. — *Wetter und Leben*. Wien. Jahrg. 6. P. 60–69.

LEWIS, W. V.: Pressure Release and Glacial Erosion. Summary. — *Un. Géod. Géophys. Intern. — Ass. Intern. d'Hydrol. Sci. Assemblée de Rome 1954. Tome 4. P. 393.*

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Examples from Jotunheim, p. 417–420.

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LIESTØL, OLAV: Breer og bremåling [Glaciers and glacier measurement]. A lecture. — Det Norske Vidensk. Akad. Oslo. Årb. 1953. P. 17–18.

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ROBIN, G. DE Q.: Some Factors affecting the Temperature Distribution in Large Ice Sheets. — Un. Géod. Géophys. Intern. — Ass. Intern. d'Hydrol. Sci. — Assemblée Générale de Rome 1954. Tome 4. P. 411–420.

Evidences from Bråsvell-breen in Svalbard. Bibliography, p. 418–419.

SHARP, ROBERT P.: Glacier Flow. — Bull. Geol. Soc. America. Vol. 65. No. 9. P. 821–838.

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DÅBAKK, GUNNAR: Jækkevarre til topps [On the peak of Jækkevarre — in Lyngenfjellene, Northern Norway]. — Den Norske Turistf. Årb. Oslo. P. 214–218.

3 phot. Ascended the first time by Geofrey Haslung, later by Nissen, Lie, Quigstad, Barlindhaug. See Dåbakk, 1954.

EIDE, T. O.: Breden og bygda [The glacier and the countryside]. — Noreg, Tidsskr. f. Folkelivsgranskning [folklore]. No. 5. Oslo. P. 1–42.

Engl. summary. 1 sketch-map, 1 drawing, 6 phot.

Isdekket land på Svalbard og Jan Mayen. Noen tall fra Polarinstituttets beregninger [Ice-covered areas in Svalbard and on Jan Mayen. Figures from the calculations of Norsk Polarinstitut]. — Polarboken. Oslo 1955. P. 200. Also in *Polar Record*. Vol. 7. No. 49, p. 330–331. See further Hoel: Flateinnhold av breer og fonner 1953.

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5 photos, one of which from Austerdalsbreen, 3 sections of artificial «glacier» flow in models of Vesleskautbreen, bibliography.

MILLER, MAYNARD M.: See Lewis, W. V. 1955.

NORDAL, ARNE: På Norges tak [On the roof of Norway]. — Den Norske Turistf. Årb. Oslo. P. 206–216.

3 phot. 1 sketch-map of Jostedalbreen, showing the route of the author — lengthways on the glacier. See Den Norske Turistf. Årb. 1936.

In 1895 discovered that Jostefonni had no connection with the main glacier.

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The downward process of the dairy farming, p. 131–132. The sinking of the forest line. Dairy farms being left unused owing to lack of fuel, p. 243.

Svartisdal. St. prp. nr. 1. Industri-, håndverks- og skipsfartsdepartementet. Vassdrags- og Elektrisitetsvesenet. Oslo.

Chapter 556 and 2260: Works to secure against dangers from the ice-dammed lake in Svartisdal, p. 9. — Budsjettinnstill. S. nr. 103 a: Chapter 556 and 2260: More security works.

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Information on the mapping of Svalbard and on glaciological studies, p. 183–185.

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1 sketch-map, 1 diagr., bibliography.

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3 phot., 12 other figures.

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HOEL, ADOLF: Freuchen og isbreen. Ingen isbreer i Norge går ned til sjøen [Freuchen and the glaciers. No glacier reaches the sea in Norway]. — Aftenposten, May 11th. No. 215. Oslo.

Information about Øksfjordjøkelen and Frostisen.

HOLLIN, J. T.: The Oxford University Expedition to Nordaustlandet, 1955. — Polar Record. Vol. 8, No. 53. Cambridge. P. 26.

LIESTØL, OLAV: Glacier-dammed Lakes i Norway. — Norsk Geogr. Tidsskr. Bd. 15. Oslo. P. 122–149.

1 fold. map, 19 text figures, bibliography. Discussed: Øvre Mjølkedalsvatn, Demmevatn, Skadevatn, Brimkjelen (Tunsbergdalen), the lake in the Strupen Pass, Lyngen, Koldevatn in Sunnmøre, Blomster-skarvatn at the Folgefonn, the lake at Østerdalsisen (Svartisen).

RUCKLEDGE, M. A.: A Glacier Water-spout in Spitsbergen. — Journ. Glaciol. Vol. 2. No. 19. London. P. 637–639.

2 profiles.

STRØM, KÅRE: The Disappearance of the Last Ice-sheet from Central-Norway. — Journ. Glaciol. Vol. 2. No. 20. London. P. 746–755.

1 sketch-map, 2 phot., 7 other figures.

Information also about recent glaciation, e. g. Hardangerjøkelen.

Svalbard (maps 1941–1955). Publi. by Norsk Polarinstitut, Oslo.

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4 phot. of glaciers.

P. A. Øyens cairns from 1900 at the lower ends of the glaciers were sought for by the author, many were found during the investigations 1933 and 1936 and new built. A considerable retreat of all glaciers stated, many glaciers having disappeared. P. 214–223.

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1 phot. showing the glacier front.

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The University of Cambridge Expedition in Norway, directed by Professor V. W. Lewis.

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Hornsundbreen has retreated 5,5 kilometres during the last 20 years. (The informant: Hydrograf K. Z. Lundquist, Norsk Polarinstittut, Oslo.)

PARNANN, ØISTEIN: Ekte Folgefonn-is til salgs [Genuine Folgefonn-ice for sale]. — Morgenbl. July 20th. No. 165. Oslo.

1 picture showing an ice-shoot from the glacier to the sea.

1958

EIDE, T. O.: Den gamle sambandsvegen millom Nordfjord og Gudbrandsdalen [The old communication between N. and G.]. — Bergens Tidende, 20 May 1958. Bergen.

The track Sunndal—Rauddal much used. Very little snow in Rauddal. The farm Tonning at the Strynsvatn was in the first half of the 19th century spoken of as a future town owing to the hoped-for increase of the traffic on that line.

Hardangers hvite jomfru [The white maid of H.] by gph. — Morgenbl. Febr. 15th. No. 39. Oslo. P. 7.

Traffic over the Fonn, tourists, guides. 1 phot.

HEBER, C. F.: Hestbrepiggen—Lomseggen. — Den Norske Turistf. Årb. 1958. Oslo. P. 203—208.

3 ill.

Skjåk—Lundadalen—Nettoseter i Bøverdalen, about 9 hours. Decrease of the snow-fields, p. 205—208.

Jotunheimen and Jostedalsbreen. — Den Norske Turistf. Årb. 1958. Oslo. 242 p.

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LIESTØL, OLAV: Hellestugubreen and Tveråbreen. — Special Investigation. Preliminary abstracts from «The Glaciers and Snowfields of Norway. Norsk Polarinst. Skrifter. No. 114. Oslo 1958.

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The origin of the name.

SCHEEN, ERLAND: Hardangers hvite jomfru (A reply to the article by gph.). — Morgenbl. Febr. 20. No. 43. Oslo. P. 2 and 5.

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Map of Svartisen at Holandsfjord (1 : 100 000). Sketch-map of Svartisen at Holandsfjord (1 : 20 000), some smaller maps, many photos of glaciers, diags.

CORNELIUSSEN, O. A. (writ. 1874): Geologisk reise i Nordland sommeren 1874 [Geological excursion in Nordland in the summer 1874]. Diary in archiv of Norges Geol. Unders. Oslo.

«The Fondalsbreen reaches almost to the sea . . . In the next little valley the *Svartisen* extends an arm quite into the fjord», p. 18–19.

Sketch of Fonndalsbreen, facing p. 19. In another copy the text is on p. 30–33.

CORNELIUSSEN, O. A. (writ. 1875): Geologisk reise i Nordlands Amt sommeren 1875 [Geological excursion in Nordland County in the summer 1875]. – Diary in the archives of Norges Geol. Unders.

Okstindan, p. 59–65. Sketch and sketch map.

«Bottomless crevasses . . . Only a halfscore persons from the neighbourhood have been up there . . . The black Oxtinder tower above the snow . . .»

INGEBRIGTSEN, ARILD HARRY (writ. 1956, 2): Snø- og snøskredundersøkelser i Finseområdet vintrene 1954–55 og 1955–56 [Snow and avalanche investigations in the Finse region during the winters 1954–55 and 1955–56]. 66 p. – Manuscript in Oslo University.

*KJELLERØD, AAGE (writ. 1952, 2): En glasiologisk undersøkelse av Tveråbreen i Jotunheimen [A glaciological investigation of Tveråbreen in J.]. – Manuscript in Oslo University.

LØNØ, ODD (writ. 1949): Måling av Austre Brøggerbre og noen betraktninger om Vestre Brøggerbre. Undersøkelse av noen morener avsatt i havet (i van Mijenfjorden), og det store Paulaframstøt ved van Mijenfjorden, Spitsbergen [Measurement of Austre Brøggerbre and investigation of some moraines deposited in the sea, and of the great Paula-advance at van Mijenfjorden, Spitsbergen]. – 40 p. Manuscript in Oslo University.

Maps of the glaciers (1 : 100 000, 1 : 50 000 and 1 : 5 000).

*RØDSETH, ODD (writ. 1949): Litt om breer og brevariasjoner i Norddal herred på Sunnmøre [Notes on glaciers and glaciervariations in Norddal parish, Sunnmøre, Western Norway]. – 42 p. Manuscript in Oslo University.

2 publ. German maps from war time, 2 fold. maps of the studied glaciers (1 : 5 000 and 1 : 2 500), 34 photos, diags, tables.

ROEN, SYVER (writ. 1953): Slamføring i breelver og slaminnhald; sedimentasjon og termikk i Nigardsvatn [Silt transport and contents of silt in glacier rivers. Sedimentation and thermal conditions i Nigardsvatn]. – 166 p. Manuscript in Oslo University.

Sketch maps, 17 photos, tables, 10 diags. Compared with conditions on Finsterwalderbreen, Spitsbergen, and on glaciers in Jotunheimen.

B. I. GENERAL GLACIOLOGY

(M and P in the margin indicate that some works may have their greatest value owing to maps and illustrations in them. U in the margin means unprinted work.)

There is also ice of different shape, which the Greenlanders call fall glaciers (calved glacier ice). In appearance these resemble high mountains rising out of the sea, they never mingle with other ice.

In *Speculum regale*, the Royal Mirror, c. 1220.

Compare Heinrich Weber, 1898.

<i>Ångström, Anders: On the Dependence of Ablation on Air Temperature etc.</i>	1933
<i>Ahlmann, Hans W:son og J. W. Sandström: Den øvre rimfrostzonen i Lofoten</i>	1917
– and <i>A. Tveten: The Recrystallization of Snow into Firn and the Glaciation of the Latter</i>	1923
– <i>Glaciation et accumulation d'humidité</i>	1924
– <i>Projet d'un programme de recherches glaciaires</i>	1929
– <i>On the Formation of Hoarfrost</i>	1929
– <i>Glaciärerna och deras geografiska betydelse</i>	1930
– <i>Investigation into the Life of Glaciers</i>	1935
– <i>Contribution to the Physics of the Glaciers</i>	1935
– <i>Determination of the Ablation of Snow and Ice</i>	1935
– <i>Variations of Glaciers and Measurements of Ablations</i>	1936
– <i>Über das Entstehen von Toteis</i>	1938
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- Ahlmann, Hans W:son: og J. W. Sandström: Den nutida klimatfluktuationen. Det varmare vädret i Norge och på Svalbard* 1941
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3. *Jan Mayen.*

(See also Norway as a whole.)

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4. *Northern Norway.*
 (See also Norway as a whole.)

Naar kaasen hensættes i beneste Noer,
 Da snarlig opdages Arctandria stoer,
 Med sine skybrydende Tinder.
 [When northwards you go and your course is straight,
 You soon will discover Arctandria great,
 With pinnacles cloud-piercing many].
 Petter Dass in «Nordlands Trompet», 1739.

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5. *Lyngen and Environments.*

(See Norway as a whole and Northern Norway.)

Jaeggevarre is the Mont Blanc of the North. — Slingsby.

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6. *Frostisen and Neighbouring Districts.*

(See also Norway as a whole and Northern Norway.)

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7. *The Sulitjelma Districts.*

(See also Norway as a whole and Northern Norway.)

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<i>Bergström, Erik</i> : Studies of the Variations in Size of Swedish Glaciers	1954
<i>Billing, Gillis</i> : Från Sulitelma till Mont Blanc . . .	1948
<i>Fellman, Jacob</i> : Anteckningar under min vistelse i Lappmarken	1906
<i>Gatty, Victor H.</i> : Sulitelma	1901
<i>Gumælius, O.</i> : Om moräner och block vid Sulitelma	1877
<i>Hofer, H.</i> : Gletscher und Eiszeitstudien	1879
<i>Holmsen, Gunnar</i> : Sjørfolden – Riksgrænsen	1916
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<i>Hülphers, Abr. Abr:son</i> : Samlingar till en Beskrifning öfver Norrland	1922
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<i>Lundquist, Gösta</i> : Till Sulitelma	1936
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	<i>Svenonius, F.</i> : Om några svenska jöklar . . .	1879
	<i>Vogt, Thorolf</i> : Omkring Sulitjelma	1923
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	<i>Westman, J.</i> : Jökelstudier vid Sulitelma	1899
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8. Svartisen.

(See also Norway as a whole and Northern Norway.)

Svartisen — der mächtigste Firn Norwegens. — Th. von Bayer, 1889.

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	<i>C(orneliussen), O. A.</i> : Småtterier fra en reise i Nordland	1874
U.	— Geologisk reise i Nordland sommeren 1874 (diary, written)	1874
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	Durham University Expedition to Svartisen . . . (1950)	1952
	<i>Granlund, Erik, och Gösta Lundquist</i> : Några iakttagelser från en resa i Helgeland sommaren 1935	1937
	<i>Høeg, Ove Arbo</i> : En myr under Svartisen	1925
	<i>Holmesland, Richard</i> : Truselen fra Svartisen øker	1957
	<i>Holmsen, Gunnar</i> : En ny bredemt sjø i Svartisen	1949
	<i>Lessing, Chr. Fr.</i> : Reise durch Norwegen nach den Lofodden . .	1831
	<i>Lindblad, Sture</i> : Till Svartisen och fjällgrottorna i Ranen	1940
	<i>Marstrander, Rolf</i> : Svartisen, dens geologi	1911
	— Svartisen. Strøgets morfologi og bræerne	1911
	<i>Rabot, Charles</i> : Le Svartisen. In his: Une excursion dans Nor- vège septentrionale	1883
	— En resa i Nordlanden och Ryska Lappland	1886
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	<i>Rekstad, J.</i> : Om Svartisen og dens gletschere . . .	1892
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	— Die Ausfüllung eines Sees vor dem Engabrä	1912
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<i>Westermark, Karl J.</i> : Over Svartisen . . .	1961

9. *Okstindan.*

(See also Norway as a whole and Northern Norway.)

Only a half-score persons from the neighbourhood have been up there. O. A. Corneliussen, 1875.

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<i>Gatty, Victor H.</i> : The Oxtinder	1901
<i>Hoel, Adolf</i> : Fra Okstinderne	1909
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Lods, Den Norske . . .	1870
<i>Mauléon, Yngve</i> : Tvärs över Okstindaneglaciären	1938
<i>Slingsby, William Cecil</i> : The Okstinder	1901
<i>Thomle, B.</i> : Indberetning om Inspektions- og undersøgelsesreisen 1906 . . .	1907

10. *Southern Norway.*

(See also Norway as a whole.)

In some places far north the undermost lays of snows, by long lying, turn into a bluish ice, called in our language *Iisbrede*, which sometimes slides down to a considerable distance over the lower grounds, to the no small detriment of the peasants.

Bishop Erich Pontoppidan, 1752.

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- Hopkinson, Charles, and K. Bing: The First Ascent of Ålfoten* 1890
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11. *Jostedalsbreen.*

(See also Norway as a whole and Southern Norway.)

«I ascended the glacier . . . (in 1823). Of charm I found nought, of majestic scenery only a little, of horrors much.» Judge Gustav Peter Blom, 1825.

«The finest ice scenery in Europe» (Austerdalsbreen).
William Cecil Slingsby, 1895.

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| <i>Aars, L. Andersen:</i> Tungaseter og Veitestrand i Hafslo | 1936 |
| <i>Adriansen, Alf:</i> Iskrateret på Tunsbergdalsbreen | 1961 |
| <i>B.:</i> En overgang over Jostedalsbreen | 1875 |
| <i>Behrmann, W.:</i> Der Suphellebre | 1927 |
| P. <i>Bergsetbreen</i> in Jostedalen | 1872 |
| <i>Bing, Kristian:</i> Gamle og nye ture paa Jostedalsbreen | 1895 |
| — To langturer på Jostedalsbræen | 1898 |
| — Om turistbesøget i tre af vore mærkeligste isdale | 1899 |
| — Paa langs over Jostedalsbræen | 1899 |
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Deel af Bergens Stift (in 1823) | 1825 |
| <i>Bohr, C.:</i> Om Iisbræerne i Jostedalen og om Lodals-Kaabe | 1820 |
| <i>Bull, C.:</i> The Determination of the Thickness of a Glacier | 1956 |
| P. <i>Dahl, Johan Christian Clausen:</i> Nigaardsbræen | 1847 |
| <i>Damsgaard, E.:</i> Over Jostefond | 1908 |
| <i>Doughty, C. M.:</i> Memoranda on the Summer Motions of some
Glacier Streams in Southern Norway | 1865 |
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Jostedalsbrä | 1905 |
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brandsdalen | 1958 |
| — Jostedalsbreen | 1961 |
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Austerdalsbrä | 1935 |
| — Gletscherkundliche Beobachtungen auf dem Austerdalsbrä | 1935 |
| — Glaziologische und morphologische Forschungen in
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| — Reisen und Forschungen in Norwegen 1937 | 1938 |
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und Kartierung des Jostedalsbræ | 1939 |
| — Deutsch-norwegische Zusammenarbeit zur Erforschung des
Jostedalsbrä in Südnorwegen | 1941 |
| — Der tägliche Bewegungsrythmus von Gletschern | 1941 |

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- Flintoe, Johannes*: (Pictures from Jostedalsbreen) 1822 1822–1823
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- Anmærkninger til Søndmørs Beskrivelse 1784
- M. To gamle karter (Two old maps, the older of which shows the later on devastated farm Tungøyane in Nordfjord (1908)) 1594

- P. *Wergmann, P. F.*: Sneebræ i Justedal 1836
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 Iisbræ (1906) 1762
Wood, A. L.: Mountaineering in the Jostedalsbre 1935

12. *Jotunheimen.*

(See also Norway as a whole and Southern Norway.)

In Jotunheimen, long ago,
 If true what Sagas say,
 No mortal would have dared to show
 Himself on Styggebrae.

Hugh F. Smith, 1901.

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- Høider i Jotunheimen 1874
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- Einige (topographisch-geognostische) Nachrichten über einen bisher unbekanntes Theil des søndenfieldische Norwegen 1823
- P. – Alpevuer fra en Fjeldreise 1820 (drawn by Keilhau, one of which appeared in Den Norske Turistf. Årb. 1893 – Horungene) 1893
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- Liestøl, Olav*: Hellstugubreen and Tveråbreen 1958
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- Fra Jotunheimen 1873
- Tindebestigninger i Jotunheimen 1875
- ————— 1876

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 – Jotunheimen 1878
 – Paa tinderne og i botterne 1878
- P. – Jotunheimspanoramaer (drawn 1884) 1884
- P. – Smørstab-bræen » 1884 1885
 – Et og andet vedkommende Galdhøpiggen 1885
- P. – Memurutinderne. Veotinderne (drawings and text by E. M. Another drawing in D. N. Turistf. Årb. 1889, printed 1890, p. 81: Fra Stugunos) 1887
 – Rettelse av brænavne under Galdhøpiggen 1890
- P. – Jotunheimen fra Skineggen, Panorama 1895
 – by H. Giverholt 1944
- Mohr, Otto Lous*: Navnet Jotunheimen 1958
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- Øyen, P. A.*: Isbræer i Jotunfjeldene.... 1891
 – Temperaturiagttagelser i Jotunfjeldene sommeren 1891 1892
 – Isbræstudier i Jotunheimen.... 1892
 – Nogle iagttagelser med hensyn til temperatur og struktur i Jotunheimens sne- og isbræer.... 1893
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 – Isbræer i Jotunheimen (Mjølkedalsvatn, Demmevatn) 1893
 – Nogle iagttagelser med hensyn til vandtemperaturen i Jotunheimens elve og innsjøer.... 1895
 – Isbræstudier i Jotunheimen.... 1895
 – Bidrag til Jotunfjeldenes glacialgeologi.... 1898
 – Høidemaalinger i Jotunheimen.... 1903
 – Høidemaalinger i Jotunheimen sommeren 1902.... 1903
 – Bræforandringer i Jotunheimen 1902–1903.... 1904
 – Seks geologiske billeder fra Jotunheimen.... 1905
 – Studier over vandtemperaturen i elve og innsjøer i Jotunheimen.... 1905
 – Øvre Mjølkedalsvand.... 1907
 – En isbrægrotte.... 1910
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 – Ringsbrægrotten.... 1914
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<i>Reusch, Hans</i> : Nogle bidrag. . . . hvorledes Norges dale og fjorde er blevne til	1901
– Riingsbræen. . . .	1903
<i>Sars, Ernst</i> : Tre Billeder fra Jotunfjeldene (Mjølkedøla)	1869
– Keilhaus Opdagelse af Jotunheimen. . . .	1872
<i>Schøning, Gerhard</i> : Reise gennem den nordlige Gudbrandsdalen i Aaret 1775. . . .	1822
<i>Slingsby, William Cecil</i> : Stray Jottings in Jotunheimen . . .	1878
– Chips from the Ice-axe. . . .	1881
– Ascent of the Stølsnaastind. . . .	1887
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<i>Tang, Per</i> : Norges Geografiske Oppmålings arbeid i Jotunheimen. . . .	1948
M. <i>Tønsberg, Chr.</i> : Oversigtskart (map) over Jotunheimen og Jostedalbræerne. . . .	1879
<i>Vole, Knut</i> : Om bræforholdene i Jotunheimen. . . .	1922
<i>Werenskiold, Werner</i> : Løitnant Karsten Lorange og breene i Jotunheimen	1928
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– En tur fra Gjendebu. . . .	1940
– Breene. . . .	1948
– Glacier measurements in the Jotunheim. . . .	1949
– Breer i Jotunheimen	1956

13. *Hardangerjøkulen.*

(See also Norway as a whole and Southern Norway.)

In early papers this jökul is very often called Hallingjøkulen, giving the reader the impression that the glacier is foremost connected with Hallingdal. It is a mistake. The cause lies supposedly in the fact that anything connected with Hardanger is called «Harding» in the vernacular of the district. Hardanger is the region, spelt «Harang» og «Harong». But then they have Haringfjellet, Haringafjorden and Haringajøkelen. A man from Hardanger is a Haring. This word Haring has then been misinterpreted and corrupted into the better known Halling.

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P. <i>Christensen, A. R.</i> , og <i>Kari Berggrav</i> : Årets naturkatastrofe	1937

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St. prp. No. 1 Arbeidsdepartementet	1895
St. prp. No. 101 Arbeidsdepartementet	1938
St. prp. No. 1 Arbeidsdepartementet	1939
<i>H. . . . W. (W. H.):</i> Til Dæmmevand om vinteren	1897
<i>Helberg, Claus:</i> Brekursus på Finsehytta	1959
<i>Holmboe, Jens:</i> En myr under Hardangerjøkelen	1908
<i>Holmsen, Andreas:</i> Fra Simadalen i Hardanger	1902
– En isdemt sjø i nutiden	1937
<i>Liseth, Endre:</i> Flomkatastrofen ved Demmevasshytta	1938
<i>Mockler-Ferryman, A. F.:</i> The Dæmme Vand or Rembesdals Glacier Lake	1894
<i>Munroe, Robert:</i> On a Remarkable Glacier-lake	1893
<i>N(issen), P.:</i> Dæmmevandet	1896
<i>Øyen, P. A.:</i> Dæmmevandet	1895
– Dæmmevand. Et bidrag til Hardangerjøkelens geologi. . . .	1896
Osedalen. Naturmærkværdigheder i O	1824
<i>Rosendahl, Halvor:</i> IV. The Geology of the Finse District	1934
– Rembesdalskjåå og Demmevatn på Hardangerjøkulen	1938
Simodalen in Sjurseth: Hordaland Fylke 1837–1937	1937

14. *Folgefonni.*

(See also Norway as a whole and Southern Norway.)

The Secret of Folgefonni.

Where this remarkable snow-field now towers above the fjords was in olden days a fertile valley, called Folgedal. It included seven parishes. But the inhabitants were so haughty and ungodly that at last God let his snow fall over them without cessation for ten days and ten nights. The whole valley was consequently filled up and every living substance was destroyed. Afterwards birds might be seen flying above the snow-covered waste, the doomed souls.

Andreas Faye: Norske sagn, 1833.

<i>Andersen, Sir C.:</i> Eight Week's Journal in Norway in 1852	1853
P. <i>Askevold, Anders Monsen:</i> Bondhusbræen (painting)	1959
<i>Bing, Kristian:</i> Ture paa Folgefonnen til og med 1895	1896
– Ænesdalen og Folgefonnens vestlige omgivelser	1902
<i>Eide, L. S.:</i> Garden Selsvik og andre stader i Jondal	1947
<i>Eikeland, Lars:</i> Turar i Kvinnherad	1945
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D. APPENDIX, ICE-DAMMED LAKES

Papers arranged chronologically.

- 1820 *Bohr, C.*: Om Iisbræerne i Jostedalen og om Lodals Kaabe. — Blandinger. Bd. 1. Chr.ania. P. 289–317.
Bjørnstegbreen og Fåbergstølbreen advanced about 1740 across the *Jostedal River*, and probably dammed it up, forcing people to get new ways higher up the slopes if they were to reach their seters farther up in the valley, p. 297–298.
- 1824 *Naumann, Carl Fr.*: Beyträge zur Kenntniss Norwegens. — Leipzig. The same account on *Fåbergstølbreen* damming up the *Jostedal River*, p. II, 200.
- 1824 *Neumann, Jacob*: Bemærkninger paa en Reise i Sogn og Søndfjord. — Budstikken. Aarg. 5. Chr.ania. P. 369–442, 563–569.
Flow in *Vetlefjorddal River*, 1820. *Skadevatn* supposed to have been dammed up. The river comes from *Jostefonni*, p. 563.
- 1824 *Osedalen*. Naturmerkværdigheder i . . . Hermoder. Chr.a. An account of warm and cold holes, of waterflows, of the filling up of *Solskinnstjern* (the Sunshine Tarn; as the name suggests, it may suddenly get full in fine weather. It is supposed that the phenomenon is related to the damming up by glaciers), p. 149.
- 1853 *Forbes, James D.*: Norway and its Glaciers, — Edinburgh. 1349 p. *Suphellebreen* damming up the river, p. 151.
- 1859 *Arbo, A.*: Tourist-Skizzer fra endeel af Norges mærkelige Egne. — Chr.ania. *Simedalen* and *Demmevatn* mentioned, p. 32–35.
- 1864 *Sexe, S. A.*: Om Sneebræen Folgeføn. — Christiania. 36 p.
Supposed ice-damming in *Lausavatn*, water flow 1849, in the *Kjerringbotn River*, about 1830, and in the *Buar Valley*, 1857, p. 18.
- 1869 *Sars, Ernst*: Tre Billeder fra Jotunfjeldene. — Den Norske Turistf. Aarb. Chr.ania. P. 86–90.
Damming up and outburst of the *Mjølkedøla River*.
- 1870 *Seue, C. de.*: Le névé de Jostedal et ses glaciers. — Chr.ania. 55 p.
A flow in 1848 said to have been caused by an avalanche or a glacier tongue blocking up the outlet of the *Skadevatn*.
- 1878 *Hertzberg, J. N.*: *Melkedøla*. — Naturen. B. 2. Bergen. P. 86–87.
Hertzberg speaks also of the *Lausavatn* (the loose waters).
- 1893 *Munro, Robert*: On a Remarkable Glacier-lake. — Proc. Roy. Soc. Edinb. Vol. 20. Edinburgh. P. 53–82. *Demmevatn*.

- 1893 *Nielsen, Yngvar*: Jotunheim. In: Reisehaandbog over Norge. Christiania. — The *Upper Mjølkedalsvatn*. Outburst 1879, p. 187.
- 1893 *Øyen, P. A.*: Isbræer i Jotunheimen. — Den Norske Turistf. Årb. Chr.a. *Mjølkedal*, p. 73–74. In an appendix also *Demmevatn*, p. 74.
- 1894 *Keilhack, K.*: Reviews of Øyen's korks. Outburst 1893 in *Mjølkedal*. — Peterm. Mitt. B. 40. Gotha.
- 1894 *Mockler-Ferryman, A. F.*: *The Dämmevatn* or Rembesdals Glacier-Lake. — Geogr. Journ. Vol. 4. London. P. 524–529.
- 1895 *Bing, Kristian*: *Demmevand*. — Turistf. Bergens by. . Aarb. Bergen Bd. I. P. 102–105.
- 1895 *Øyen, P. A.*: *Dämmevandet*. — Naturen, Bd. 19. Bergen. P. 373–376.
- 1895 St. prp. no. 1. Arbeidsdepartementet, Oslo. Regulation on the outlet of the *Demmevatn*. Tunnel proposed and money granted for it.
- 1896 *Hertzberg, J. N.*: Brægjennembrydning (*Mjølkedøla*). — Morgenbl. Extra No. 17. April; 26th. Chr.ania. *Lausavatn* also mentioned.
- 1896 *Mocker-Ferryman, A. F.*: *Demmevatn*. Outburst 1893. — In the Northman's land. — London. P. 186–187, 193, 308–311. *Solskinns-tjern*, p. 167, 168.
- 1896 *Nielsen, Yngvar*: Reisehaandbog over Kongeriget Norge. — Christiania. *Melkedalsvand*, p. 176.
- 1896 *N(issen), P.*: *Dämmevandet*. — Morgenbl. Extra No. 43. Nov. 25th. Chr.ania. P. 169–170. Tunnel begun.
- 1896 *Øyen, P. A.*: *Dämmevand*. Et bidrag til Hardangerjøkelens geologi. — Bergens Mus. Aarb. 1894–95. No. 3. Bergen. 15 p.
- 1896 *Vibe, Johan*: Søndre Bergenhus Amt, B. 12. In: Norges Land og Folk. Chr.ania. Water-flows in *Kjerringbotn* and *Lodalén*, p. 118–119, *Blomsterskarvatn*, p. 120, all belonging to Folgefonni, as also *Lausavatn*, p. 232. *Demmevatn*, p. 244. *Solskinstjern*, p. 266.
- 1897 *H. W.*: Til *Dämmevand* om vinteren. — Morgenbl. Extra No. Christiania. P. 74. Outburst. Damages. Tunnel being built.
- 1898 Strupeskarødet; report to Bergens Fjellmannalags Aarsoversyn. Bergen. P. 2.
- 1899 *Caspari, J.*: Nogle nye fjeldbestigninger og fjeldovergange paa Lynghalvøen. — Den Norske Turistf. Aarb. Chr.a. P. 44–61. *Strupeskarødet* and environs, p. 50–56.
- 1899 *Garwood, E. J.*: Additional Notes. . . . — Quart. Journ. Geol. Soc. London. Vol. 55. London. P. 681–691. *Glacial lakes frequent*, p. 683.
- 1899 *Hastings, G.*: The Lyngen District. — Alp. Journ. Vol. 19. London. P. 356–363, 611–620. *Strupeskarødet* Ice-damming, p. 338, 357–358.
- 1899 *Helland, Amund*: Tromsø Amt, B. 19. In: Norges Land og Folk. Christiania. The Ice-dammed lake in the *Strupeskarødet*, p. I, 58.
- 1899 *Rabot, Charles*: *Glacier de Strupen*. — Variations de longueur des glaciers. Arch. Sci. phys. nat. T. 8. Genève. Damming up and outburst, p. 321–322.

- 1899 *Slingsby, Wm. Cecil*: Mountaineering in Arctic Norway. — Alp. Journ. Vol. 19. London. P. 414–437. *Strupebreen*, Outburst of the lake.
- 1900 *Øyen, P. A.*: Bidrag til vore brægenes geografi. Nytt Mag. Nat. B. 37. Kristiania. P. 73–229. — *Øvre Mjølkedalsvatn*, p. 180, *Demmevatn*, p. 200, *Strupen*, p. 204, *Lausavatn*, p. 205.
- 1900 *Reusch, Hans*: Bræsjøer i fordums tid. — Det Norske Geogr. Selsk. Aarb. B. 10. Kristiania. P. 93–99. — *Demmevatn*. The *Glâmåga River* supposedly dammed up by a glacier tongue.
- 1901 *Gatty, Victor H.*: The Oxtinder. — Alp. Journ. Vol. 20. London. P. 275–276. *Mørkebekkbre* makes an ice-dammed lake. Old beaches to be seen higher up.
- 1901 *Helland, Amund*: Nordre Bergenhus Amt, B. 14. In: Norges Land og Folk. Kr.ania. — *Øvre Mjølkedalsvatn*, p. I, 78–79; *Skadevatn*, p. I, 104, outburst 1848. A little lake dammed up by the *Bøyumbre*, p. I, 106. The damming up of the *Tunsbergdal River*, outburst Aug. 6th 1900 (refers to oral report from Rekstad). The *Fåbergstølbreen* damming up the *Jostedal River*, p. I, 128.
- 1901 *Øyen, P. A.*: Variations of Norwegian Glaciers. — Nyt Mag. Nat. B. 39. Kristiania. P. 73–116. *Skadevatn*, p. 86–88.
- 1901 *Rekstad, J.*: Opdæmning ved *Tunsbergdalen* i Sogn. Naturen. B. 25. P. 81–87.
- 1901 *Rabot, Charles*: Une débâcle glaciaire en Norvège. — La Géographie. T. 4. No. 12. Paris. P. 259–263. *Tunsbergdalen*.
- 1902 *Holmsen, Andreas*: Fra Simadalen i Hardanger. — Den Norske Turistf. Aarb. 1902. Kristiania. P. 135–138. *Demmevatn*.
- 1902 *Rekstad, J.*: Iagttagelser fra bræer i Sogn og Nordfjord. — Norges Geol. Unders. Aarb. 1902. B. 34. No. 3. Kristiania. 48 p. *Tunsbergdalen*.
- 1903 *Nielsen, Yngvar*: Reisehaandbog over Norge. Kristiania. *Mjølkedalsbreen*. Outbursts, 1879, 1894, 1897. P. 219.
- 1904 *Rabot, Charles*: Débâcles glaciaire en Norvège. — La Géographie. T. 9. No. 3. Paris. P. 207–210. *Tunsbergdalen*.
- 1904 *Rekstad, J.*: Opdæmning ved *Tunsbergdalsbræen* i Sogn. — Naturen. B. 28. Bergen. P. 1–6.
- 1905 *Rabot, Charles*: Glacial Reservoirs and their Outbursts. — Geogr. Journ. Vol. 25. London. P. 534–548. Norwegian glaciers, p. 540–542. French issue: Les débâcles glaciaires. — Bull. Géol. Hist. Descript. T. 20. Paris. P. 413–465.
- 1905 *Rekstad, J.*: Fra Jostedalsbræen. — Bergens Mus. Aarb. 1904. Nat. vidsk. rekke No. 1. Bergen. 95 p. *Tunsberdalen*, p. 88–92. Refers to Bohr and Naumann as to the *Fåbergstølbre* having advanced across the *Jostedal River*. P. 44.

- 1907 Øyen, P. A.: *Øvre Mjølkedalsvand*. — Arch. Mag. Nat. B. 28. No. 6. Kristiania. 12 p.
- 1907 Øyen, P. A.: Nogle bemærkninger om *Jostedalsbræen*. — Berg. Mus. Aarb. 1906. Nat.vidsk. rekke No. 1. Bergen. 4 p.
- 1908 Nielsen, Yngvar: *Reisehaandbog over Norge*. B. 3, Det Vestenfjeldske Norge. Kristiania. *Demmevatn* is a tourist attraction, p. 51–52.
- 1912 Rekstad, J.: Kurze Übersicht über die Gletschergebiete des südlichen Norwegens. — Bergens Mus. Aarb. 1911. Nat.vidsk. rekke No. 7. Bergen. 54 p. *Tunsbergdalen*, p. 15–18, *Demmevatn*, 45–47.
- 1921 Helland, Amund: *Søndre Bergenhus Amt*, B. 12. In: *Norges Land og Folk*, Chr.a. 1921. *Lausavatn*, p. I, 82; water flow 1849. (Kjerringbotn and Blomsterskarvatn, only mentioned, p. 83). *Demmevatn*, p. I, 86–88. Outburst 1893. Water-spouts. (Cold-holes, p. I, 111–118.) The *Solskinstjern* meant to be filled in the same way as the glacier lakes, p. I, 117–118.
- 1923 Odell, Noel Ewart: *Explorations in the Mountains of Eastern Spitsbergen*. — Alp. Journ. Vol. 35. London. P. 232–239. *Outburst of a glacier lake*.
- 1925 Olafsen, O.: Ulvik (a parish). *Norheimsund*. 341 p. — *Demmevatn*, p. 54. (Cold holes, p. 61–63.) The *Solskinstjern*, p. 54, 63–64.
- 1926 Rekstad, J.: Den voldsomme flom i *Leirdøla* (from the *Tunsbergdals River*) i sommer og dens årsaker. — Morgenbl. Nov. 20. Oslo.
- 1927 Rekstad, J.: Den voldsomme flom fra *Tunsbergdalsbræen*. In his: *Forandringer ved norske bræer 1925–26*. — Bergens Mus. Årb. 1926. Nat.vidsk. rekke No. 4. Bergen. 10 p.
- 1931 Svensson, Torsten: *Svenska Spetsbergenexpeditionen 1930*. — Ymer. Årg. 51. Stockholm. P. 77–84. An *ice-dammed lake*, p. 84.
- 1937 Christensen, A. R., og Kari Berggrav: Årets naturkatastrofe. — Norsk Årsrevy. Oslo. P. 27. *Demmevatn*, outburst.
- 1937 Holmsen, Andreas: En isdemt sjø i nutiden. — Norsk Geogr. Tidsskr. B. 6. Oslo. P. 425–449. *Demmevatn*.
- 1937 Sjurset, Karl: *Simodalen*. In his: *Hordaland Fylke, 1837–1937*. Bergen. *Demmevatn*, p. 631–632. Tunnel.
- 1938 Christensen, Erling, og Gøte F. Furuholmen: *Øvre Mjølkedalsvatn* overrasker. — Den Norske Turistf. Årb. Oslo. P. 228–229. Outburst.
- 1938 Liseth, Endre: *Flomkatastrofen ved Demmevasshytta*. — Den Norske Turistf. Årb. Oslo. P. 225–227.
- 1938 Rosendahl, Halvor: *Rembesdalskjåki* og *Demmevatn* på *Hardangerjøkelen*. — Naturen. B. 62. Bergen. P. 1–19.
- 1938 St. pr. nr. 101. Arbeidsdepartementet, Oslo. New regulation of the outlet of *Demmevatn*.
- 1939 Klæboe, Halfdan: *Flommen i Mjølkedalen*. — Norsk Geogr. Tidsskr. B. 7. Oslo. P. 113–125.
- 1939 St. prp. nr. 1. Arbeidsdepartementet, Oslo. As in 1938.

- 1940 *Fægri, Knut*: Forandringer ved norske breer 1936–37. — Bergens Mus. Arb. Nat.vidsk. rekke No. 4. Bergen. Outburst from *Demmevatn* in 1938, p. 14–15. Bibliogr. p. 16.
- 1940 *Fægri, Knut*: Forandringer ved norske breer 1937–39. — *ibid.* nr. 3. Outburst from *Demmevatn* in 1938. Tunnel work begun.
- 1947 *Nielsen, Mentz Rynning*: Skredet på *Digranes* i 1943. — Norsk Geogr. Tidsskr. B. 11. Oslo. P. 327–333. — The avalanche came from the *Lausavatn* Febr. 19th 1943. Similar disasters in 1742, 1849, 1913. See Sexe, 1864. Nielsen does not speak of ice-damming.
- 1949 *Holmsen, Gunnar*: En ny bredemt sjø i *Svartisen*. — Norsk Geogr. Tidsskr. B. 12. Oslo. P. 153–167.
- 1950 *Pillewizer, W.*: Bewegungsstudien an Gletschern des *Jostedalsbre* in Südnorwegen. — Erdkunde. B. 4. Bonn. *Brimkjelen* (the *Tunsbergdalsbre*). Outburst 1937. P. 204.
- 1952 *Pillewizer, W.*: Beobachtungen am *Jostedalsbre* in Südnorwegen. — Zeitschr. Gletscherk. Glazialgeol. B. 2. Innsbruck. *Brimkjelen*. P. 24.
- 1953 St. prp. nr. 1. Industri-, håndverk- og skipsfart-departementet, Oslo. Chapter 556 and 2260: Securing against dangers from the ice-dammed lake in *Svartisdalen*.
Vol. 2. No. 15. London. P. 316–318.
- 1954 *Dineley, D. L.*: Investigation i Vestspitsbergen. — Journ. Glaciol. Vol. 2. No. 16. London. P. 379–383. — *Glacier-dammed lakes*.
- 1955 St. prp. nr. 1. Håndverk- og skipsfart-departementet, Oslo. Chapter 556 and 2260: Works to prevent damages from the ice-dammed lake in *Svartisdalen*.
- 1956 *Liestøl, Olav*: Glacier-dammed Lakes in Norway. — Norsk Geogr. Tidsskr. B. 15. Oslo. P. 122–149. — The *Uppper Mjølkedalsvatn*, *Demmevatn*, *Skadevatn*, *Brimkjelen* (*Tunsbergdalen*), *Strupebreen* in *Lyngen*, *Koldevatn* in *Sunnmøre*, *Blomsterskarvatn* at *Folgefonna Østerdalsisen* (*Svartisen*).
- 1957 *Holmesland, Richard*: Truselen fra *Svartisen* øker.
Mbl. Oslo. No. 231, Oct. 5.
- 1961 *Andriansen, Alf*: Iskrateret på *Tunsbergdalsbreen*. Norsk Turistf. Årbok 1961, p. 154–158.

ADDENDA

1761

Chart over den Deel af Rigslinien imellem Norge og Sverige, som ifølge den i Strømstad Aar 1751 sluttede Grændse Tractat . . . er blevet opmaalt, redresseret og røssat Aar 1761 [Map of the part of the frontier between Norway and Sweden . . ., which has been surveyed, redressed and provided with cairns 1761 — according to the Treaty of Strömstad, 1751]. Riksarkivet, Oslo.

The glaciers along the frontier line are shown on the map, though somewhat inaccurate. The description on the map states that «the Olmajallo Giækna (north of Sulitjelma) was covered with snow, wherefore no cairn could be placed there». From the Olmajallegeikna to the Tulpageikna (Norw. Flatkjølen) the frontier line crosses an «Ugly Snow-field Area» [Heslig Sneec Fields Strækning], but it is not called glacier. Some other peaks could not be provided with cairns either, owing to their being covered with ice, inter alia the Gautclis Mountain.

The Swedish copy of this «chart» is printed in «Sveriges Tractater, Kartor 32, Gränsgongen Sverige—Norge, 1752—1766».

Grendse- og Røsebeskrivelse for Kongeriget Norge og Kongeriget Sverige for Aaret 1761 [Border and Cairn Description for the Kingdom of Norway and for the Kingdom of Sweden, 1761]. Unprinted. Manus. in the Archiv of Geograf. Oppmåling, Oslo.

Cairn 239 set down near Sulitjelma, «which was covered with ice all over». It was called Røse Isberg [Glacier Cairn], p. 78. Sulitjelma unascendable owing to its being covered with snow and ice. Cairn 240 therefore built north of S, p. 80. The Olmajallegeikna Mountain, consisting of heights with ledges and crags, was everywhere so steep and ice-covered that it could not be ascended. No cairn there, pp. 81—83. On the Balkis Tiorro cairn 241 set down. From here to the Tulpageikna impossible to build a cairn, p. 85. The Tulpageikna Glacier reached according to the Lapps far towards the West. The ground covered with snow and ice. Cairn 242 built on firm ground on the highest point and named Tulpageikna Røset [the T. Cairn], p. 87. Gautelis Field [G. Mountain] very high and like Olmajallegeikna inscalable. The Mountain was almost quite covered with snow and ice. No cairn could be built, p. 91.

1772

MARELIUS, NILS: Charta som wisar Sträckningen, så wäl af Land och Fjäll-Ryggen som Gränsen imellan Swerige och Norrige för den Delen som de ifrån Rutefiället til Haldefiällen, mäst äro ifölge med hwerandra. [Map of . . . the borderland between Sweden and Norway . . .] — Kgl. Vetensk. Acad. handl. Vol. 33. Stockholm 1772.

1811

LINNÉ, CARL von: *Lachesis Lapponica*. Diary from a journey undertaken in 1732 – by J. E. Smith. 2 vols. London. 365 p. + 306 p.

Vol. I, p. 321: «a lofty icy mountain – one dazzling snowy waste» (on the way from Virijaure in Sweden to Tørfjord in Norway. Vol. II, p. 5: «Icy mountains» (returning into Sweden). He gives no names to the ice mountains, but has used the old track westwards from Virijaure. Helland, Amund, 1908, IV, p. 279 and Holmsen, Gunnar, 1916, p. 40–42.

Appendix in vol. II, p. 272–282, has an extract of Wahlenberg's «Observations made with a View to determine the Height of the Lappland Alps. See Wahlenberg, Georg, 1809.

Linné's *Lachesis Lapponica* – also called *Iter Lapponicum* – is to be found in many editions, inter alia: Pultney, Richard: *The Diary of L.*, London 1805. *Skrifter* (edited by the Royal Acad. Science, Stockh.) Upsala 1913. *Iter Lapponicum* in vol. 5. *Ungdomsresor*, Stockholm 1929, *Lapplandsresa*, Stockholm 1957.

1857

DUFFERIN, FREDERICK TEMPLE HAMILTON BLACKWOOD, EARL of: *Letters from High Latitudes* in 1856. London. 424 p.

3 maps, 22 ill.

Glaciers: Jan Mayen, pp. 213–215, English Bay, Spitsbergen, pp. 297–305.

Reprint: Leipzig (tauchnitz) 1891, Oxford University Press, London 1918.

Translations: *Briefe aus hohen Breitengraden*, Braunschweig 1860, and *Lettres de hautes latitudes*, Montreal 1876.

1860

DUFFERIN, FREDERICK TEMPLE HAMILTON BLACKWOOD, EARL of: *Briefe aus hohen Breitengraden* in 1856. – Braunschweig 1860, 330 pp. 25 ill.

Glaciers: Jan Mayen, pp. 161–162. English Bay, pp. 227 et seq.

1870

Lods, Den Norske. *Kyststrekningen fra Trondhjemsleden til den russiske Grændse* (The Norwegian Pilot. The coastal tract from the leith of Trondheim to the Russian border). Vol. 8. Chr.a. 1870.

Oks*indan as a landmark.

1874

C(ORNELIUSSEN), O. A.: *Smaatterier fra en reise i Nordland* [Trifles from a journey in Nordland County]. – *Den Norske Turistf. Aarb.* 1874. Pp. 57–89. Chr.a.

Svartisen, pp. 75–78.

1876

DUFFERIN, FREDERICK TEMPLE HAMILTON BLACKWOOD, EARL of: *Lettres de hautes latitudes*, traduit par T. L. Bedard. Montreal 1876. 320 pp.

Glaciers: Jan Mayen, pp. 169–170. La Baie des Anglais, pp. 241–244.

1878–79

SVENONIUS, F.: *Om några svenska jøklar* [On some Swedish glaciers]. *Geol. Fören. Förh.* Bd. 4. Stockholm 1879. P. 18–27.

Sulitjelma's glaciers, p. 20–27. Refers to Linné's *Lachesis Lapponica*, «snowy strata» (Linné, p. 322). Svenonius, p. 25.

1881

RABOT, CHARLES: *Ascensions dans la Norvège septentrionale*. — *Annuaire du Club Alpin Français* 7^e année 1880. Paris (sep.). 18 pp.

Sketch map of Sulitjelma.

Ascent on Sulitjelma, p. 15.

1882

RABOT, CHARLES: *Un été au-dessus du cercle polaire*. — *Ann. du Club Alpin Français*, 8^e année 1881. Paris, P. 261–306.

Ill. from the Sulitjelma Regions and Jøkelfjord. Red snow, p. 18, Okstindan, p. 19, Sulitjelma, p. 46 et seq. Ascent on the glacier almost impossible.

1885

GRAD, A. CHARLES: *Le Cap Nord au soleil de minuit*. — *Annuaire du Club Alpin Français*, 11^e année 1884. Paris 1885. Pp. 326–341.

Snow lines, p. 335.

1886

SLINGSBY, WILLIAM CECIL: *Mountaineering in Norway*. — *Alp. Journ.* Vol. 11. London. Pp. 142.

1887

RABOT, CHARLES: *Fragments de voyages dans Norvège septentrionale*. — *Annuaire du Club Français*, 13^e année 1886. Paris. Pp. 239–262.

2 engravings.

Okstindan, pp. 248–249.

SLINGSBY, WILLIAM CECIL: *Notes on Campaign in Norway*. — *Alp. Journ.* Vol. 12. London. P. 267.

1891

DUFFERIN, FREDERICK TEMPLE HAMILTON BLACKWOOD, EARL of: *Letters High Latitudes . . . in 1856*. Reprint, Leipzig. 302 pp.

Glaciers: Jan Mayen, pp. 171–172. English Bay, pp. 229 et seq. (1. issue in 1857, a new one in 1918).

LAUNAY, L. de: Sur la côte de Norvège. — *Annuaire du Club Alpin Français*, 17^e année 1890. Paris. Pp. 346–378.

Col. aquarelle of Jøkelfjord facing p. 362. Jøkelfjord, p. 363, Svartisen, p. 365.

1898

GRØNFUR, P.: En reise over Jostedalsbredden [A journey over J]. — *Fjordenes Blad*, Dec. 22. Faleide, Nordfjord.

Route: Hjelle—Sundalsseter—Mundalsseter. See Kr. Bing: Paa langs over Jostedalsbræen, 1899.

1899

CASPARI, J.: Nogle nye fjeldbestigninger og fjeldoverganger paa Lyngenhavøen [Some new ascents and mountain passages on the Lyngen Peninsula]. — *Den Norske Turistf. Aarb.* 1899. Chr.a. Pp. 44–61.

4 photos.

Strupesgardet and environments, pp. 50–56. Ice-damming p. 54.

1900

RANDERS, KRISTOFER: Nordland. Reiseindtryk [Journey impressions]. — *Norge i det Nittende Aarhundrede*. Bd. 2. Kr.a.

Frostisen called the northernmost of Norway's largest glaciers.

GATTY, VICTOR H.: *The Oxtinder*. — *Alp. Journ.* Vol. 20. London. Pp. 276–278.

Oxtindbræ. Mørkebeckbræ made an ice-dammed lake. Old beaches were to be seen.

GATTY, VICTOR H.: *Sulitelma*. — *Alp. Journ.* Vol. 20. London. Pp. 443–449.

1 sketch map facing p. 443, 1 phot. facing p. 444.

SLINGSBY, WILLIAM CECIL: *The Jostedalsbræ*. — *Alp. Journ.* Vol. 20. London. Pp. 269–270.

«This grand and almost unknown glacier (Åbrekkebreen)». «The grand glacier (Nigardsbreen) . . . an admirable picture of which appeared in Professor Forbes' «Norway and its Glaciers», p. 267.

1903

BING, KRISTIAN: *Okstinderne*. — *Helgeland. Veiledning for Turister* [tourist guidance]. — *Helgelands Turistf. Trondhjem* 1903. P. 28–32.

Helgeland. Veiledning for turister [guidance for tourists]. — *Helgelands Turistf. Trondhjem* 1903. 54 p. 13 photos.

Kjensvatn, Umbukta and Mo mentioned as well as Okstindan, pp. 22–24.

Article by Kr. Bing: *Oxtinderne*, p. 28–32.

1908

LE BLOND, MRS. AUBREY (Miss E. Main): *Mountaineering in the Land of the Midnight Sun*. — London 1908. 304 pp.

1 sketch map of Scandinavia, 71 ill., many of which show glaciers.
See Main, E. Joseph and Emil Imboden, 1899.

1909

QVIGSTAD, J., og K. B. WIKLUND: *Dokumenter angaaende flytlapperne m.m., samlede efter opdrag av Renbeitekommissionen av 1907*. 2 bd. [Documents concerning the nomadic Lapps etc., collected according to mandate from the Commission for determining the reindeer pastures]. Kr.a. Information on Okstirndan, Sulitjelma and Frostisen.

WIKLUND, K. B., see Qvigstad, J., 1909.

1916

HOLMSEN, GUNNAR: *Sørfolden — Riksgrensen* [Sørfolden — the Border (i.e. east of Bodø)]. — *Norges Geol. Unders. Bd. 79. Aarb. 1916. No. 2*. Kristiania. P. 1—43. Engl. summary.

1 geol. fold. map (1 : 200 000), 4 plates.

Snow line and glaciers, p. 40—42. An old track from Hellarvik to Virijaure over Flatisen (Duolpajiekna). See Amund Helland: *Nordland, 1908, part 4, p. 279*.

1918

DUFFERIN, FREDERICK TEMPLE HAMILTON BLACKWOOD, EARL of: *Letters from High Latitudes . . .* Reprint in Oxford University Press. London. 322 pp.

Introduction by R. W. Magan and notes by F. A. Cavinagh.

Maps, 22 ill.

Glaciers: Jan Mayen, pp. 137—138. English Bay, pp. 197—201.

1922

HÜLPHERS, ABR. ABR:SON: *Samlingar til en Beskrifning öfwer Norrland* [Collection of particulars to a Description of North Sweden]. 5. Saml. 3. Bd. Lappmarken, issued by G. Kallstenius. Stockholm (written in the 1790s).

Sermons for Lapps near the Norwegian frontier, also for Norwegian Lapps, p. 89. They probably crossed Flatkjølen glacier.

1926

HAGEN, TORALV: *Håndbok for reiser i Nord-Norge* [Guide book for travels in North Norway]. Hammerfest.

The track Andkilvatn in Tørfjord to Virijaure in Sweden, 10—12 hours easy walking, half an hour over Flatkjølen (proper), mountain guide at the farm Hellarvik. (See also Svenska turistf. reshandbok, Lappland I, 12. tur B. Stockholm 1956, p. 192.)

1928

Helgeland i tekst og billeder 1927. Til veiledning for turister [guidance for tourists]. — Helgelands Turistf. Bodø. 118 p.

Tourist map of Helgeland, 87 photos, 1 drawing, among which many photos of Okstindan and Svartisen.

Glaciers: Okstindan, p. 82–88, Svartisen, p. 106 et seq., 111 et seq.

1930

BJØRSTAD, E.: Dagbok. Grenserydningen Norge—Sverige 1930. [Diary. The clearing of the border-line between Norway and Sweden, 1930]. Unprinted. Manus. in the Archiv of Geogr. Oppmåling, Oslo.

Aug. 20. 1930. Gaulis — long and cumbrous ascent, but not difficult, in spite of what is said in the Border Description (of 1761, meant to be unaccessible then). Ascent up to Snøtoppen [the Snow Top] difficult though. Cairn 242a built there. Aug. 21. March to Tørfjord over Flatkjølen (Tulpageikna) and Lappfjell. Difficult and risky, the glaciers slippery and full of crevasses. 1 man and 3 horses fell into one of them but were saved. Large parties free of snow and therefore difficult to cross. The travellers had to rest on the ice in the middle of the night and spent 1½ day on the tour. It was the only way to the sea in that district.

1935

Salten distrikt, Håndbok for . . [Guide book for Salten district]. Bodø og Omegns Turistf. Bodø.

The route Megard in Tørfjord to Virijaure made in 8–10 hours. Guide needed over Flatisen, pp. 16–18. The route Leirfjord to Vastenjaure, pp. 18–19.

1936

LUNCKE, B.: Luftkarttegning på Svalbard 1936 [The aerial mapping in Svalbard, 1936]. — Norsk Geogr. Tidsskr. Bd. 6. H. 3. 1936. Oslo. P. 145–154.

1 sketch map, 3 phot.

1942

ZAPFFE, PETER WESSEL: Grunntrekk av fjellbestigningens historie [Basic features in the history of ascents]. — Den Norske Turistf. Aarb. 1942. Oslo. Pp. 63–70.

2 plates.

1954

DÅBAKK, GUNNAR: Jækkevarre til topps [On the peak of Jækkevarre]. — Nordlys. Sept. 25. Tromsø. Pp. 6–8.

6 photos of glaciers. Refers to Caspari.

1956

HOEL, ADOLF: Freuchen og isbreene. Ingen isbreer i Norge går ned til sjøen [F. and the glaciers. No glacier reaches the sea in Norway proper]. — Aftenposten, May 11th. No. 215. Oslo.

Lappland. Svenska Turistföreningens reshandbok [guide book]. I. Stockholm.

12th tour B, Virijaure to Tørfjord, over Flatkjølen, p. 192.

1957

JERDAL, LUDV.: Sognefjellsvegen [The Sognefjell Road]. — Bergens Turlag. Årb. 1957. Bergen. Pp. 123–131.

Mentions King Oscar II. travel in Jotunheimen 1880. See also Den Norske Turistf. Aarb. 1880, Chr.a. Pp. I–X.

1958

ERIKSSON, B. E.: Glaciärstudier i Skagastølsdalen [Glacial studies in the Skagastøl valley]. — Norsk Fjellsport. Oslo. 1958. Pp. 93–103.

1 sketch map showing glacier decrease since 1935, 6 photos, 1 section. Considerations on the decrease of the ice and its causes, pp. 99–103.

PEDERSEN, OLAV CHR.: I kjølige omgivelser [In cool environments]. — Bergens Turlag, Årb. 1958. Bergen. Pp. 149–155.

4 photos.

A trip to Brimkjelen, Jostedalsbreen.

1959

ERIKSSON, BACKA ERIK: Glaciologic investigations in Jotunheimen and Sarek in the years 1955–1957. *Geographica*. Vol. 34. Uppsala 1959. 208 p.

HELBERG, CLAUS: Brekursus på Finsehytte 1958 [A glacier course in the Finse Hut]. — Den Norske Turistf. Årb. 1959. Oslo. Pp. 170–174.

1 phot. of a broken glacier mass.

VODAHL, ANDERS: En dagstur til Folgefonna [A day's travel to F.]. — Den Norske Turistf. Årb. 1959. Oslo. Pp. 170–174.

1 sketch map of the route, p. 174, 7 ill.

The fonn decreasing. No crevasses along the route.

1960

GLEDITSCH, KRISTIAN: De høyeste fjellene i Norge [The highest mountains in Norway]. *Norsk Geogr. Tidsskr.* Bd. 17. Oslo. Pp. 33–121. Summary in Engl., pp. 88–90.

Fold. map of Okstindan in pocket (1 : 100 000), 2 sketch maps, 16 ill. in the text. Many of glaciers.

The Lyngen Mountains, Sulitjelma and Storfjellet dealt with.

GLEDITSCH, KRISTIAN: Hvor er det høyeste punkt i Norge? [Where is the highest point in Norway?] *Den Norske Turistf. Årb.* 1960. P. 213–215.

3 ill. from Glittertind.

LIESTØL, OLAV: Glaciers of the present day. In: Olaf Høltedahl: Geology of Norway. Norges Geol. Unders. No. 208 Oslo 1960. Pp. 482–490.

2 sketch-maps, 1 ill. of Jostedalbreen, sections.

1961

Breen [The Glacier], articles in Den Norske Turistf. Årb. 1961. 250 p.
Of interest for this work:

ADRIANSEN, ALF: Iskrateret på Tunsbergdalsbreen [The ice crater on T., a branch of Jostedalbreen], p. 154–158.

2 photos.

Investigations in connection with outbursts.

BACKER, ANDREAS: Av brevandringens saga [From the saga of glacier crossings], p. 35–54.

1 sketch-map, 9 photos.

EIDE, T. O.: Jostedalbreen, p. 89–96.

Important tracks from olden times.

GRØNNINGSÆTER, BØRRE I.: Breer og bresmelting på Møre [Glaciers and glacier melting on Møre, Western Norway], p. 111–119.

3 photos.

HAGENE, G.: Kartlegging av breer [Mapping of glaciers], p. 159–167.

4 maps. Also on photogrammetry.

HELBERG, CLAUD: Spennende bretur [Exciting glacier wandering], p. 81–86.

HELBERG, CLAUD: Ruter over Jostedalbreen [Tracks over J.], p. 96–102.

1 sketch-map showing the routes.

JØRGENSEN, RAGNVALD: Patentføreren forteller [An official glacier guide relates], p. 127–137.

7 drawings.

KULBERG, ØYVIND: Brevandring [Glacier rambles], p. 179–192.

4 drawings, 8 photos.

LIESTØL, OLAV: Breer i Norge [Glaciers in Norway], p. 20–23.

Areas, decrease.

LIESTØL, OLAV: Bremåling og brevariasjoner [Glacier measurement and glacier variations], p. 24–34.

1 sketch-map, 4 photos, 1 section.

MIDTTUN, OLAV: Breane i norsk dikting [The glaciers in Norwegian poetry], p. 55–73.

6 photos.

SULHEIM, EILIV: Svellnosbreen, p. 12–126.

8 photos.

TOKHEIM, KNUT HARALD: Folgefonn, p. 103–110.

WERENSKIOLD, WERNER: Breen lever [The glacier is living], p. 17–19.

WESTERMARK, KARL J.: Over Svartisen, p. 138–141.

3 photos.

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Skrifter nr. 1—99, see numbers of Skrifter previous to Nr. 100.

- Nr.
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 117. HEINTZ, NATASCHA: *The Downtonian and Devonian Vertebrates of Spitsbergen. X. Two new Species of the Genus Pteraspis from the Wood Bay Series in Spitsbergen*. 1960. Kr. 3.00.
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