

DET KONGELIGE DEPARTEMENT
FOR HANDEL, SJØFART, INDUSTRI, HÅNDVERK OG FISKERI

NORGES SVALBARD- OG ISHAVS-UNDERSØKELSER

LEDER: ADOLF HOEL

SKRIFTER OM SVALBARD OG ISHAVET

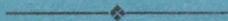
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NR. 43. BJØRN BJØRLYKKE: VASCULAR PLANTS
FROM SOUTH EAST GREENLAND COLLECTED ON
THE "HEIMEN" EXPEDITION IN 1931
PRELIMINARY REPORT

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OSLO

I KOMMISSJON HOS JACOB DYBWAD

1932

Results of the Norwegian expeditions to Svalbard 1906—1926 published in other series. (See Nr. 1 of this series.)

The results of the Prince of Monaco's expeditions (Mission Isachsen) in 1906 and 1907 were published under the title of 'Exploration du Nord-Ouest du Spitsberg entreprise sous les auspices de S. A. S. le Prince de Monaco par la Mission Isachsen', in *Résultats des Campagnes scientifiques*, Albert 1^{er}, Prince de Monaco, Fasc. XL—XLIV. Monaco.

ISACHSEN, GUNNAR, Première Partie. Récit de voyage. Fasc. XL. 1912. Fr. 120.00.

With map: Spitsberg (Côte Nord-Ouest). Scale 1:100000. (2 sheets.) Charts: De la Partie Nord du Foreland à la Baie Magdalena, and Mouillages de la Côte Ouest du Spitsberg. ISACHSEN, GUNNAR et ADOLF HOEL, Deuxième Partie. Description du champ d'opération. Fasc. XLI. 1913. Fr. 80.00.

HOEL, ADOLF, Troisième Partie. Géologie. Fasc. XLII. 1914. Fr. 100.00.

SCHETELIC, JAKOB, Quatrième Partie. Les formations primitives. Fasc. XLIII. 1912. Fr. 16.00.

RESVOLL HOLMSEN, HANNA, Cinquième Partie. Observations botaniques. Fasc. XLIV. 1913. Fr. 40.00.

A considerable part of the results of the ISACHSEN expeditions in 1909 and 1910 has been published in *Videnskapsselskapets Skrifter. I. Mat.-Naturv. Klasse, Kristiania (Oslo)*.

ISACHSEN, GUNNAR, Rapport sur l'Expédition Isachsen au Spitsberg. 1912, No. 15. Kr. 5.40.

ALEXANDER, ANTON, Observations astronomiques. 1911, No. 19. Kr. 0.40.

GRAARUD, AAGE, Observations météorologiques. 1913, No. 1. Kr. 2.40.

HELLAND-HANSEN, BJØRN and FRIDTJOF NANSEN, The sea west of Spitsbergen. 1912, No. 12. Kr. 3.60.

ISACHSEN, GUNNAR, The hydrographic observations. 1912, No. 14. Kr. 4.20.

With chart: Waters and anchorages on the west and north coast. Publ. by the Norw.

Geogr. Survey, No. 198.

HOEL, A. et O. HOLTEDAHL, Les nappes de lave, les volcans et les sources thermales dans les environs de la Baie Wood au Spitsberg. 1911, No. 8. Kr. 4.00.

GOLDSCHMIDT, V. M., Petrographische Untersuchung einiger Eruptivgesteine von Nord-westspitzbergen. 1911, No. 9. Kr. 0.80.

BACKLUND, H., Über einige Olivinknollen aus der Lava von Wood-Bay, Spitzbergen. 1911, No. 16. Kr. 0.60.

HOLTEDAHL, OLAF, Zur Kenntnis der Karbonablagerungen des westlichen Spitzbergens. I. Eine Fauna der Moskauer Stufe. 1911, No. 10. Kr. 3.00. II. Allgemeine stratigraphische und tektonische Beobachtungen. 1912, No. 23. Kr. 5.00.

HOEL, ADOLF, Observations sur la vitesse d'écoulement et sur l'ablation du Glacier Lilliehöök au Spitsberg 1907—1912. 1916, No. 4. Kr. 2.20.

VEGARD, L., L'influence du sol sur la glaciation au Spitsberg. 1912, No. 3. Kr. 0.40.

ISACHSEN, GUNNAR, Travaux topographiques. 1915, No. 7. Kr. 10.00.

With map: Spitsberg (Partie Nord-Ouest). Scale 1:200000 (2 sheets).

GUNNAR ISACHSEN has also published: Green Harbour, in *Norsk Geogr. Selsk. Aarb.*, Kristiania, 1912—13, Green Harbour, Spitsbergen, in *Scot. geogr. Mag.*, Edinburgh, 1915, and, Spitsbergen: Notes to accompany map, in *Geogr. Journ.*, London, 1915.

All the above publications have been collected into two volumes as *Expédition Isachsen au Spitsberg 1909—1910. Résultats scientifiques. I, II. Kristiania 1916*.

As the result of the expeditions of ADOLF HOEL and ARVE STAXRUD 1911—1914 the following memoir has been published in *Videnskapsselskapets Skrifter. I. Mat.-Naturv. Klasse*.

HOEL, ADOLF, Nouvelles observations sur le district volcanique du Spitsberg du Nord. 1914, No. 9. Kr. 2.50.

The following topographical maps and charts have been published separately:

Bjørnøya (Bear Island). Oslo 1925. Scale 1:25000. Kr. 10.00.

Bjørnøya (Bear Island). Oslo 1925. Scale 1:10000. (In six sheets.) Kr. 30.00.

Chart of Bear Island. (No. S1). Oslo 1929. Scale 1:40000. Kr. 4.00. (With description.)

Bear Island Waters. (No. S2). Oslo 1930. Scale 1:35000. Kr. 5.00.

Spitsbergen. Chart, Bellsund—Forlandsrevet including Isfjorden. (No. S3). Scale 1:200000. Kr. 5.00.

A preliminary edition of topographical maps on the scale of 1:50000 covering the regions around Kings Bay, Ice Fjord, and Bell Sound, together with the map of Bear Island, scale 1:25000, is published in:

Svalbard Commissioner [Kristian Sindballe], Report concerning the claims to land in Svalbard. Part I A, Text; I B, Maps; II A, Text; II B, Maps. Copenhagen and Oslo 1927. Kr. 150.00.

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LEDER: ADOLF HOEL

SKRIFTER OM SVALBARD OG ISHAVET

Nr. 43

BJØRN BJØRLYKKE

SOME VASCULAR PLANTS
FROM SOUTH EAST GREENLAND
COLLECTED ON THE „HEIMEN“ EXPEDITION IN 1931
PRELIMINARY REPORT



OSLO
I KOMMISJON HOS JACOB DYBWAD
1932

Preface.

In the summer of 1931 *Norges Svalbard- og Ishavsundersøkelser* equipped a South-East-Greenland expedition, which left Svølvær in Norway on the 23rd of July 1931 in the M/S Heimen of Tromsø. The plan of the expedition was research work on a part of the east coast, south of Angmagsalik. The ship dropped anchor in Bjørnehamna in a fjord just north of Tingmiarmiut Island on the 1st of August. It left Finnsbu on the 30th of August, after 30 days' work ashore.

The Botanical work was chiefly done by the present author, but Professor Thorolf Vogt, the leader of the expedition, also collected some plants. In this preliminary report I have enumerated all plants not mentioned from this district in Professor Ostenfeld's paper 'The Flora of Greenland and Its Origin', Copenhagen 1926. A more comprehensive paper on the entire material is in preparation.

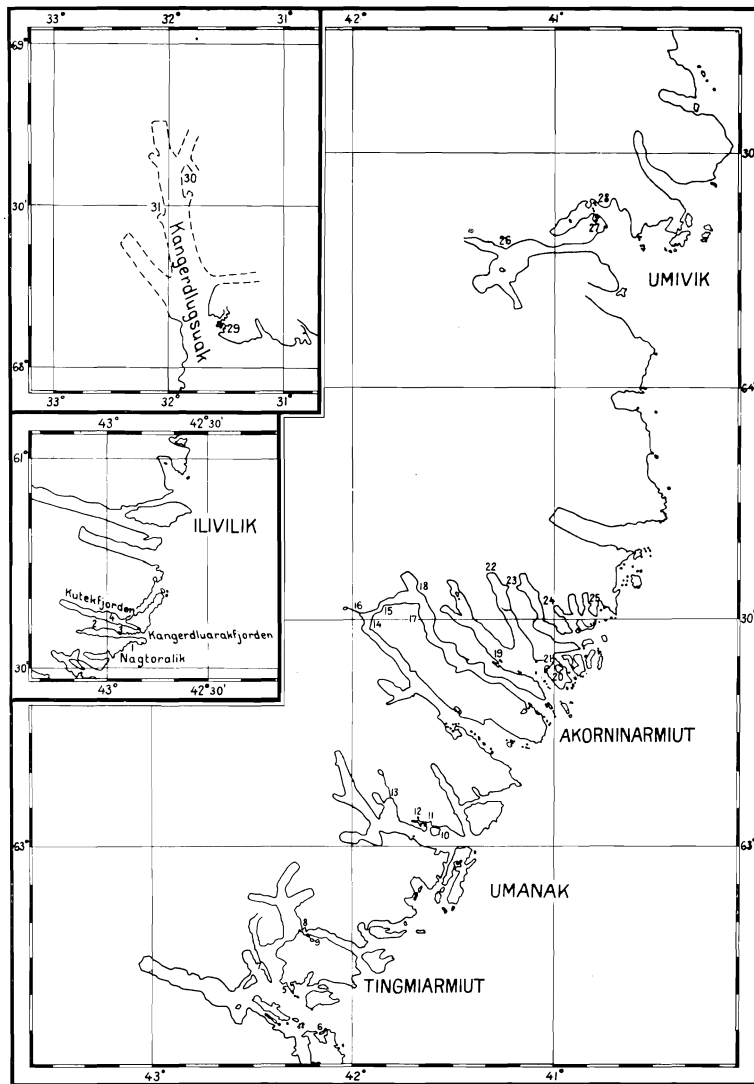
Our localities can be referred to four main regions, viz.:

- I. T i n g m i a r m i u t (abbrev. Tingm.): Igdlormiut, Lomvatnet and Langholmen.
- II. U m a n a k : Rudiøya, Vogtsbu and Pilerkit.
- III. A k o r n i n a r m i u t (abbrev. Akorn.): Bjørlykkeneset, Dronning Marie's dal, Moreneneset, Myrodden, Finnsbu, Imarsivik, Imarsivik-øya near Flosundet, the head of Trollfjorden, Trollfjordeidet, Eidsdalen and Kikut.
- IV. U m i v i k : Otto Sverdrupfjorden, Utermiut and Nordenskiöld's Nunatak.

I am much indebted to Dr. Hugo Dahlstedt, Stockholm, who has determined my *Taraxaca*, and to Mr. S. O. F. Omang, Oslo, who has determined my *Hieracia*. A special paper on the *Hieracia* is published in 'Skrifter om Svalbard og Ishavet', Nr. 45.

The Botanical Museum, Oslo, December 16th 1931.

Bjørn Bjørlykke.



Sketch map showing localities.

- | | | |
|-----------------|-------------------------------|-----------------------------|
| 1. Nagtoralik | 12. Innfjorden | 22. Head of Trollfjorden |
| 2. Mortensberg | 13. Pilerkit | 23. Trollfjordeidet |
| 3. Straumen | 14. Bjørlykkeneset | 24. Eidsdalen |
| 4. Kutekfjorden | 15. Moreneneset | 25. Kikut |
| 5. Brattneset | 16. Dronning Maries dal | 26. Otto Sverdrupfjorden |
| 6. Langholmen | 17. Skjoldungen, Inner | 27. Uterminut |
| 7. Igdormiut | 18. Myrodden | 28. Nordenskiöld's nunatakk |
| 8. Bjørnhamna | 19. Finnsbu | 29. Skardet |
| 9. Lomvatnet | 20. Imarsivik | 30. Elvefaret |
| 10. Rudi-øya | 21. Imarsivikøya at Flosundet | 31. Brandal |

List of Plants.

Anthoxantum odoratum L.

Umanak: Vogtsbu Aug. 15th, Aug. 17th.

Asplenium viride Huds.

Akorn.: Finnsbu Aug. 10th, Imarsivikøya at Flosundet Aug. 24th.

Athyrium alpestre (Hoppe) Nyl.

Tingm.: Lomvatnet Aug. 2nd.

Umanak: Vogtsbu Aug. 14th, Aug. 15th.

Akorn.: Finnsbu Aug. 9th, Aug. 10th, Imarsivik Aug. 27th, Imarsivikøya at Flosundet Aug. 24th, Eidsdalen Aug. 25th, Kikut Aug. 26th.

Betula glandulosa Michx.

Umanak: Rudiøya Aug. 16th.

Betula nana L.

Akorn.: Dronning Marie's dal Aug. 5th, Aug. 4th, Finnsbu Aug. 9th.

Botrychium lanceolatum (Gmel.) Ångstr.

Akorn.: Finnsbu Aug. 8th.

Callitriche verna (L.) Lönnr.

Tingm.: Lomvatnet Aug. 2nd.

Umanak: Rudiøya Aug. 16th.

Akorn.: Dronning Marie's dal Aug. 6th, Myrodden Aug. 5th (Th. Vogt).

Cardamine pratensis L.

Umanak: Vogtsbu Aug. 15th, Rudiøya Aug. 16th.

Carex Halleri Gunn.

Umanak: Rudiøya Aug. 16th.

Akorn.: Skjoldungen: Inner North Side Aug. 7th.

Carex Hepburnii Boott.

Akorn.: Dronning Marie's dal Aug. 5th, Aug. 6th. Skjoldungen: Bjørlykkeneset Aug. 6th (Th. Vogt), head of Trollfjorden Aug. 13th (Th. Vogt), Trollfjordeidet Aug. 13th.

Carex macloviana D'Urv.

Umanak: Pilerkit Aug. 14th.

Akorn.: Dronning Marie's dal Aug. 5th, Myrodden Aug. 5th (Th. Vogt), Finnsbu Aug. 8th, Trollfjordeidet Aug. 13th, Imarsvikøya at Flosundet Aug. 24th (Th. Vogt), Eidsdalen Aug. 25th.

Carex rufina Drej.

Akorn.: Finnsbu Aug. 9th, Aug. 11th, Kikut Aug. 26th.

Umivik: Otto Sverdrupfjorden: North Side Aug. 21st.

Carex saxatilis L.

Umanak: Rudiøya Aug. 16th, Vogtsbu Aug. 15th.

Akorn.: Finnsbu Aug. 9th.

Carex stylosa C. A. Mey. (Determin. Johannes Lid.)

Tingm.: Langholmen Aug. 3rd.

Umanak: Vogtsbu Aug. 15th.

Equisetum variegatum Schleich.

Umanak: Pilerkit Aug. 14th, Rudiøya Aug. 16th, Vogtsbu Aug. 15th, head of Innfjorden Aug. 15th (Th. Vogt).

Akorn.: Dronning Marie's dal Aug. 4th, Aug. 5th, Aug. 6th.

Erigeron compositus Pursh.

Akorn.: Skjoldungen: Moreneneset Aug. 5th (Th. Vogt).

Hieracium stelechodes Om. n. sp.¹

Akorn.: Dronning Marie's dal, Aug. 4th.

Juncus arcticus Willd.

Umanak: Rudiøya Aug. 16th.

Akorn.: Dronning Marie's dal Aug. 4th.

¹ Published in Omang, *Beiträge zur Hieraciumflora Ost Grönlands* p. 4.

Juncus biglumis L.

Umanak: Rudiøya Aug. 16th, Vogtsbu Aug. 15th.

Akorn.: Dronning Marie's dal Aug. 5th, Finnsbu Aug. 9th, Aug. 11th, Skjoldungen: Inner North Side Aug. 7th.

Juncus triglumis L.

Akorn.: Skjoldungen: Inner North Side Aug. 7th.

Kobresia Bellardii (All.) Degland.

Akorn.: Skjoldungen: Bjørlykkeneset Aug. 6th (Th. Vogt).

Limosella aquatica L.

Akorn.: Myrodden Aug. 5th (Th. Vogt).

Linnaea borealis L.

Akorn.: Dronning Marie's dal Aug. 4th (Th. Vogt), Aug. 5th.

Listera cordata (L.) R. Br.

Umanak: Vogtsbu Aug. 15th.

Akorn.: Dronning Marie's dal Aug. 4th, Finnsbu Aug. 8th, Trollfjordeidet Aug. 13th.

Montia lamprosperma Cham.

Akorn.: Dronning Marie's dal Aug. 5th, Myrodden Aug. 5th (Th. Vogt).

Nardus stricta L.

Umanak: Vogtsbu Aug. 15th.

Akorn.: Finnsbu Aug. 10th, Aug. 28th, Trollfjordeidet Aug. 13th, Kikut Aug. 26th.

Poa rigens Hartman.

Umanak: Head of Innfjorden Aug. 15th (Th. Vogt).

Potentilla anserina L.

Akorn.: Dronning Marie's dal Aug. 4th, Aug. 5th.

Puccinellia angustata R. Br.

Umivik: Utermiut Aug. 20th.

Puccinellia phryganodes (Trin.) Scribn. et Merr.

Tingm.: Lomvatnet Aug. 2nd.

Umanak: Head of Innfjorden Aug. 15th (Th. Vogt).

Akorn.: Dronning Marie's dal Aug. 4th, Finnsbu Aug. 9th, Eidsdalen Aug. 25th, Imarsivik Aug. 27th.

Umivik: Utermiut Aug. 20th.

Puccinellia retroflexa (Curt.) Holmberg.

Akorn.: Finnsbu Aug. 28th.

Rubus saxatilis L.

Akorn.: Dronning Marie's dal Aug. 4th.

Saxifraga tenuis (Wahlenb.) H. Smith.

Tingm.: Igd!ormiut Aug. 2nd.

Umanak: Vogtsbu Aug. 17th, Aug. 15th.

Akorn.: Dronning Marie's dal Aug. 6th, Finnsbu Aug. 9th and 10th.

Selaginella selaginoides (L.) Link.

Umanak: Vogtsbu Aug. 17th.

Akorn.: Trollfjordeidet Aug. 13th.

Triglochin palustris L.

Umanak: The head of Innfjorden Aug. 16th.

Taraxacum purpuridens Dt.

Akorn.: Skjoldungen: Inner North Side Aug. 7th, Finnsbu Aug. 10.h.

Taraxacum rhodolepis Dt.

Umanak: Pilerkit Aug. 14.

Vahlodea atropurpurea (Wahlenb.) Fr.

Tingm.: Lomvatnet Aug. 2nd.

Akorn.: Finnsbu Aug. 8th, Imarsivik Aug. 27th, Eidsdalen Aug. 25th.

Veronica alpina L. var. *villosa* Lange.

Tingm.: Lomvatnet Aug. 2nd.

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- Nr. 1. HOEL, ADOLF, *The Norwegian Svalbard Expeditions 1906—1926*. 1929. Kr. 10,00.
 ” 2. RAVN, J. P. J., *On the Mollusca of the Tertiary of Spitsbergen*. 1922. Kr. 1,60.
 ” 3. WERENSKIOLD, W. and IVAR OFTEDAL, *A burning Coal Seam at Mt. Pyramide, Spitsbergen*. 1922. Kr. 1,20.
 ” 4. WOLLEBÆK, ALF, *The Spitsbergen Reindeer*. 1926. Kr. 10,00.
 ” 5. LYNGE, BERNT, *Lichens from Spitsbergen*. 1924. Kr. 2,50.
 ” 6. HOEL, ADOLF, *The Coal Deposits and Coal Mining of Svalbard (Spitsbergen and Bear Island)*. 1925. Kr. 10,00.
 ” 7. DAHL, KNUT, *Contributions to the Biology of the Spitsbergen Char*. 1926. Kr. 1,00.
 ” 8. HOLTEDAHL, OLAF, *Notes on the Geology of Northwestern Spitsbergen*. 1926. Kr. 5,50.
 ” 9. LYNGE, BERNT, *Lichens from Bear Island (Bjørnøya)*. 1926. Kr. 5,80.
 ” 10. IVERSEN, THOR, *Hopen (Hope Island), Svalbard*. 1926. Kr. 7,50.
 ” 11. QUENSTEDT, WERNER, *Mollusken aus den Redbay- und Greyhookschichten Spitzbergens*. 1926. Kr. 8,50.

Nos. 1—11: Vol. I.

From Nr. 12 the papers will not be collected into volumes, but only numbered consecutively.

- Nr. 12. STENSIÖ, ERIK A:SON, *The Downtonian and Devonian Vertebrates of Spitsbergen*. Part I. *Cephalaspidae*. A. Text, and B. Plates. 1927. Kr. 60,00.
 ” 13. LIND, J., *The Micromycetes of Svalbard*. 1928. Kr. 6,00.
 ” 14. *A paper on the topographical survey of Bear Island*. (In preparation.)
 ” 15. HORN, GUNNAR and ANDERS K. ORVIN, *Geology of Bear Island*. 1928. Kr. 15,00.
 ” 16. JELSTRUP, HANS S., *Déterminations astronomiques*. 1928. Kr. 2,00.
 ” 17. HORN, GUNNAR, *Beiträge zur Kenntnis der Kohle von Svalbard (Spitzbergen und der Bäreninsel)*. 1928. Kr. 5,50.
 ” 18. HOEL, ADOLF, *Das Festungsprofil auf Spitzbergen. Jura und Kreide*. I. Vermessungsergebnisse. (In the press.)
 ” 19. FREBOLD, HANS, *Das Festungsprofil auf Spitzbergen. Jura und Kreide*. II. Die Stratigraphie. 1928. Kr. 3,00.
 ” 20. FREBOLD, HANS, *Oberer Lias und unteres Callovien in Spitzbergen*. 1929. Kr. 2,50.
 ” 21. FREBOLD, HANS, *Ammoniten aus dem Valanginien von Spitzbergen*. 1929. Kr. 4,00.
 ” 22. HEINTZ, ANATOL, *Die Downtonischen und Devonischen Vertebraten von Spitzbergen*. II. *Acanthaspida*. 1929. Kr. 15,00.
 ” 23. HEINTZ, ANATOL, *Die Downtonischen und Devonischen Vertebraten von Spitzbergen*. III. *Acanthaspida*. — Nachtrag. 1929. Kr. 3,00.
 ” 24. HERITSCH, FRANZ, *Eine Caninia aus dem Karbon des De Geer-Berges im Eisfjordgebiet auf Spitzbergen*. 1929. Kr. 3,50.
 ” 25. ABS, OTTO, *Untersuchungen über die Ernährung der Bewohner von Barentsburg, Svalbard*. 1929. Kr. 5,00.
 ” 26. FREBOLD, HANS, *Untersuchungen über die Fauna, die Stratigraphie und Paläogeographie der Trias Spitzbergens*. 1929. Kr. 6,00.
 ” 27. THOR, SIG, *Beiträge zur Kenntnis der invertebraten Fauna von Svalbard*. 1930. Kr. 18,00.
 ” 28. FREBOLD, HANS, *Die Altersstellung des Fischhorizontes, des Grippianiveaus und des unteren Saurierhorizontes in Spitzbergen*. 1930. Kr. 4,00.
 ” 29. HORN, GUNNAR, *Franz Josef Land. Natural History, Discovery, Exploration and Hunting*. 1930. Kr. 5,00.
 ” 30. ORVIN, ANDERS K., *Beiträge zur Kenntnis des Oberdevons Ost-Grönlands*. HEINTZ, ANATOL, *Oberdevonische Fischreste aus Ost-Grönland*. 1930. Kr. 4,00.

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- Nr. 31. FREBOLD, HANS, *Verbreitung und Ausbildung des Mesozoikums in Spitzbergen* 1930. Kr. 17,00.
- „ 32. ABS, OTTO, *Über Epidemien von unspezifischen Katarrhen der Luftwege auf Svalbard*. 1930. Kr. 2,00.
- „ 33. KIÆR, JOHAN, *Ctenaspis, a new Genus of Cyathaspidian Fishes*. 1930. Kr. 1,00.
- „ 34. TOLMATCHEW, A., *Die Gattung Cerastium in der Flora von Spitzbergen*. 1930. Kr. 1,00.
- „ 35. D. SOKOLOV und W. BODYLEVSKY, *Jura- und Kreidefaunen von Spitzbergen*. 1931. Kr. 15,00.
- „ 36. SMEDAL, GUSTAV, *Acquisition of Sovereignty over Polar Areas*. 1931. Kr. 10,00.
- „ 37. HANS FREBOLD: *Fazielle Verhältnisse des Mesozoikums im Eisfjordgebiet Spitzbergens*. 1931. Kr. 8,75.
- „ 38. LYNGE, B., *Lichens from Franz Josef Land*. 1931. Kr. 3,00.
- „ 39. HANSEN, OLAF and LID, JOHANNES: *Flowering Plants of Franz Josef Land collected on the Norwegian Scientific Expedition 1930*. 1932. Kr. 3,50.
- „ 40. KIÆR, JOHAN. (In the Press.)
- „ 41. B. LYNGE and P. F. SCHOLANDER: *Lichens from North East Greenland*. 1931. Kr. 9,50.
- „ 42. ANATOL HEINTZ: *Beitrag zur Kenntnis der devonischen Fischfauna Ost-Grönlands*, 1931. Kr. 4,00.
- „ 43—46. BJØRLYKKE, BJØRN, *Some vascular Plants from South East Greenland. Collected on the „Heimen“ Expedition in 1931 Preliminary Report*.
- LID, JOHANNES, *Vascular Plants from South East Greenland. Collected on the „Signalhorn“ Expedition in 1931*.
- LYNGE, B., *Lichens from South East Greenland. Collected in 1931 on Norwegian Expeditions*.
- OMANG, S. O. F., *Beiträge zur Hieraciumflora Ost-Grönlands*. 1932. Kr. 4,00.
- „ 47. LYNGE, B., *A Revision of the Genus Rhizocarpon (Ram.) Th. Fr. in Greenland*. 1932. Kr. 2,00.