Annotated Bibliography of the Characeae Febr. 2004

Recent Vegetation (1998-2003)

J.C. van Raam

STEWART, N.F., 2004. Important stonewort areas of the United Kingdom. An assessment of the best areas for stoneworts in the United Kingdom. Plantlife International, Salisbury, UK. 135 pp. 2 figs., 13 maps; + Summary 16 pp.

SCHUBERT, H. & BLINDOW, I. (eds.), 2004. Charophytes of the Baltic Sea.\A.R.G. Gantner Verlag, Ruggell. (4) + 426 pp., figs., distribution maps, 16 pl. [Lamprothamnium sonderi n. spec., 15 Chara, 8 Nitella species, Lamp. papulosum, Nitellopsis obusa, Tol. nidifica]

BLAZENCIC, J. & BLAZENCIC, Z., 2003. An overview of the existing data on living Charophytes (Charales) of the Balkan Peninsula. Acta Micropalaeontologica Sinica 20: 103-110, fig. 1. [C. ohridana, 26 Chara, 10 Nitella, 4 Tolypella species, Nitellopsis obtusa, Lamproth. papulosum, Lychn. barbatus]

BORHIDI, A., 2003. Magyarország növénytársulásai. Akadémia Kiodó, Budapest. 610 pp., 89 figs. [Hungarian] [pp. 69-109: N. cf. mucronata in Nitello-Ceratophylletum submersi, N. flexilis, C. tomentosa (as ceratophylla), C. fragilis, C. braunii (as coronata), C. canescens (as crinita)].

BRUINSMA, J., 2003. A report of aquatic plants (including the Characeae) and aquatic vegetation found at 33 locations in Ireland, summer 1999. Irish Naturalist Journal 27: 198-207. [C. aculeolata, C. aspera, C. contraria, C. curta, C. globularis, C. hispida, C. rudis, C. virgata, C. vulgaris, N. flexilis, N. opaca, Tol. glomerata]

CASANOVA, M.T., GARCIA, A. & FEIST, M., 2003. The ecology and conservation of Lychnothamnus barbatus. Acta Micropalaeontologica Sinica 20: 118-128. [Lychn. barbatus, C. vulagris, C. fibrosa, N. hyalina]

GARCIA, A., 2003. Lychnothamnus barbatus (Meyen) Leonhardi from Australia: statistical analysis of its gyrogonite and comparison with European collections. Acta Micropalaeontologica Sinica 20: 111-117, fig. 1, pl. 1. [Lychn. barbatus, C. vulgaris, N. hyalina, C. globularis, N. cristata]

HANSEL-WELCH, N., BUTLER, M.G., CARLSON, T.J. & HANSON, M.A., 2003. Change in macrophyte community structure in Lake Christina (Minnesota), a large shallow lake, following biomanipulation. Aquatic Botany 75: 323-337. [C. vulgaris, C. canescens(?)]

JANSSEN, J.A.M. & SCHAMIÉE, J.H.J., 2003. Europese natuur in Nederland. Habitattypen. KNNV Uitgeverij, Utrecht. 120 pp., figs., photo's. [Dutch] [C. globularis, C. aspera, C. major, N. hyalina, N. translucens, Nitellopsis obtusa]

SVIRIDENKO, B.F. & SVIRIDENKO, T.V., 2003. Distibution and ecology of charophytes in the northern Kazakhstan. Acta Micropalaeontologica Sinica 20: 139-146, 6. figs. [19 Chara, 4 Nitela species, Lampr. papulosum, Nitellopsis obtusa]

VAN DE WEYER, K., 2003. Vegetationskundliche Erhebungen in Nassabgrabungen - Ergebnisse von Tauchuntersuchungen im Niederrheinischen Tiefland. Tuexenia 23: 307-314, 4 figs. [Nitellopsis obtusa, C. contraria, C. globularis, C. virgata (as delicatula), C. vulgaris; Nitellopsidetum obtusae, Charetum contrariae]

BETTINGER, A. & WOLFF, P.(eds.), 2002. Vegetation des Saarlandes und seiner Randgebiete. Teil I. see: WOLFF, P., 2002.

BORNETT, G. & ARENS, M.F., 2002. Charophyte communities in cut-off river channels - The role of connectivity. Aquatic Botany 73: 149-162. [C. hispida, C. globularis, C. vulgaris, N. confervacea]

BRUIN, C.J.W., 2002. Een bijzondere Fonteinkruid-vondst op Texel: Stuckenia filiformis (Pers.) Börner (Draadfonteinkruid) nieuw voor Nederland. (A remarkable Pondweed-find on the isle of Texel: Stuckenia filiformis (Pers.) Börner, new to the Netherlands). Gorteria 28: 25-31, 1 fig. [Dutch, english summary] [C. aspera, C. hispida, C. globularis, C. contraria]

CIRUJANO, S. & MEDINA, L., 2002. Plantas acuáticas de las lagunas y humedales de Castilla-La Manche. Real Jardin Botánico-CSIC, Madrid. 340 pp., 441 figs. [Spanish] [Characeae pp. 23-52, fig. 8-79 (29 distribution maps): 13 Chara, 6 Nitella, 3 Tolypella species, Lamp. papulosum]

ESPINAR, J.L., GARCIA, L.V., MURILLO, P.G. & TOJA, J., 2002. Submerged macrophyte zonation in a Mediterranean salt marsh: a facilitation effect from established helophytes? Journal of Vegetation Science 13: 831-840.
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NAT, E., 2002. Nieuwe vondst van Klein glanswier in Fryslân. Twirre 13: 38-42, 4 + 2 figs. (1 distribution map). [Dutch] [N. hyalina, N. flexilis, C. aspera, C. globularis]
RAABE, U. & KOUMPLI-SOVANTZI, L., 2002. Studies on the flora of some endangered wetlands of Argolis (Greece). Proceedings 9th Scientific Congress Hellenic Botanical Society. pp. 286-289. [N. mucronata, N. tenuissima, C. intermedia, C. globularis, C. gymnophylla, Tol. glomerata]
RAABE, U. & VAN DE WEYER, K., 2002a. Arenschutzprogramm Armleuchteralgen-Gewächse (Characeae) in Nordrhein-Westfalen. Schriftenreihe für Vegetationskunde 36: 99-108, 3 figs. (2 distribution maps). [5 Chara, 9 Nitella species, Tol. intricata, Nitellopsis obtusa]
RAABE, U. & VAN DE WEYER, K., 2002b. Armleuchteralgen (Characeae) in Nordrhein-Westfalen. Ein Beitrag zum Artenschutzprogramm. LÖBF-Mitteilungen 27 (4): 31-38, 6 figs., 6 distribution maps. [8 Chara, 8 Nitella, 3 Tolypella species, Nitellopsis obtusa]
RODWELL, J.S., SCHAMINÉE, J.H.J., MUCINA, L., PIGNATTI, S., DRING, J. & MOSS, D., 2002. The diversity of European vegetation. An overview of phytosociological alliances and their relationships to EUNIS habitats. Report nr. 2002/054. EC.LNV, Wageningen. 168 pp., 6 figs., photo's. [p. 58: Charetea fragilis]
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ABBINK-MEIJERINK, C.G., BRUINSMA, J.H.P. & ODÉ, B., 2001. Recente vondsten van Callitriche palustris L. (Klein sterrenkroos) in Nederland. (Recent records of Callitriche palustris L. in the Netherlands). Gorteria 27: 12-16, 3 figs. (1 distribution map). [Dutch, english summary] [C. vulgaris]
BERG, C., DENGLER, J. & ABDANK, A., 2001. Die Pflanzengesellschaften Mecklenburg-Vorpommerns und ihre Gefährdung. Tabellenband. Weissdorn Verlag, Jena. 341 pp. [Characeae in Ruppietea, Charetea fragilis, Potamogetonetea, Isoeto-Littorelletea]
BOEDELTJE, G., SMOLDERS, A.J.P., ROELOFS, J.G.M. & VAN GROENENDAEL, J.M., 2001. Constructed shallow zones along navigation canals: vegetation establishment and change in relation to environmental characteristics. Aquatic Conservation - Marine and Freshwater Ecosystems 11: 453-471. [C. vulgaris]
BRUINSMA, J., 2001. Doorschijnend glanswier in de Blaugorzen, eerste vondst in Fryslân. Twirre 12: 112-113, 1 fig. [Dutch] [N. translucens, N. flexilis]
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KRATOCHWIL, A. & SCHWABE, A., 2001. Ökologie der Lebensgemeinschaften. Biozönologie. Eugen Ulmer, Stuutgart. 756 pp., 286 figs. [p. 236, fig. 6.15: Equisetum fluviatile-Chara sp. - Gesellschaft]
OT'AHEL'OVÁ, H., 2001. Charetea fragilis. In: M. VALACHOVIC (ed.) - Rastlinné spolocenstvà Slovenska. 3. Vegetácia makradi. (Plant communities of Slovakia. 3. Wetland vegetation). pp. 393-406, 1 fig. Veda, Bratislava. 435 pp., figs, 1 map. [Slovakian, english summary] [N. mucronata, C. fragilis, C. hispida, C. contraria, C. tomentosa, C. vulgaris (as foetida), Nitellopsis obtusa].
SCHUBERT, R., HILBIG, W. & KLOTZ, S., 2001. Bestimmungsbuch der Pflanzengesellschaften Deutschlands. Spektrum Akademischer verlag, Heidelberg-Berlin. XIII + 472 pp., 43 figs. [Chara Arten in Najadetum marinae, Characeen in Myriophyllo-Nupharetum lutae]
SOLINSKA-GORNICKA, B. & SYMONIDES, E., 2001. Long-term changes in the flora and vegetation of Lake Mikolajskie (Poland) as a result of its eutrophication. Acta Societatis Botanicorum Poloniae 70: 323-334. [Nitellopsis obtusa, C. aspera]

VALACHOVIC, M.(ed.). 2001. Rastlinné spolocenstvà Slovenska. 3. Vegetácia makradi. (Plant communities of Slovakia. 3. Wetland vegetation). see: OT'AHEL'OVÁ, H., 2001.
BROUWER, E., 2000. Herstelbeheer in vennen; is er aparte aandacht voor kranswieren nodig? Nieuwsbrief Kranswieren 7: 12-14. [Dutch] [N. translucens, N. flexilis, N. capillarsi, C. globularis, Tol. intricata]
BRUINSMA, J., HOSPERS, A. & HOSPERS, M., 2000. Some charophytes records in Sneznik Regional Park. Acta Biologica Slovenica 44: 71-77, 1 map. [C. aspera, C. contraria, C. globularis, C. vulgaris, C. gymnophylla, N. opaca].
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PAAL, J., 2000. Eesti Natura 2000. Elupaigatüüpide käsiraamat. (Natura 2000, Estonian version). TÜ Botaanika ja ökoloogia institut, Tartu. 241 pp., maps. Also (without maps) at http//www.envir.ee/natura2000/ [C. aspera in Charetum asperae, C. tomentosa in Charetum tomentosae, C. contraria, C. canescens, C. baltica, C. connivens, C. strigosa, N. flexilis, Tol. nidifica, Lamp. papulosum, Nitellopsis obtusa]
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PRESTON, C.D., STEWART, N.F. & PALMER, M.A., 2000. The standing waters of Coll and Tiree in a national and international context. Botanical Journal of Scotland 52: 43-64, 8 figs. (7 distribition maps). N. confervacea, N. translucens, N. flexilis, C. virgata, C. contraria, C. vulgaris, C. aspera, C. hispida, Tol. glomerata]
STEWART, N.F. & PRESTON, C.D., 2000. Stoneworts of Coll and Tiree. Botanical Journal of Scotland 52: 91-100, 1 distribution map. [N. confervacea, N. translucens, N. flexilis, N. opaca, C. globularis, C. virgata, C. contraria, C. vulgaris, C. aspera, C. hispida, Tol. glomerata]
VAN RAAM, J.C., 2000c. Het Nitelletum translucentis. Nieuwsbrief Kranswieren 8: 11-12. [Dutch] [N. translucens, N. mucronata, N. flexilis, N. syncarpa,C. aspera, C. globularis, C. fragifera in Nitelletum translucentis and Littorellion communities]
WEEDA, E.J., SCHAMINÉE, J.H.J. & VAN DUUREN, L., 2000. Atlas van plantengemeenschappen in Nederland. deel 1. Wateren, moerassen en natte heiden. KNNV Uitgeverij, Utrecht. 334 pp., figs., distribution maps. [Dutch] [Charetea fragilis pp. 106-131, 10 figs., 16 distribution maps: Nitelletum translucentis, Nitellopsidetum obtusae, Charetum hispidae, Charetum asperae, Charetum vulgaris, Lemno-Nitelletum capillaris, Tolypelletum proliferae, Charetum canescentis]
WEEDA, E.J., 2000. Kranswieren in de Atlas van Plantengemeenschappen. Nieuwsbrief Kranswieren 8: 2-4. [Dutch] [Nitellopsis obtusa, C. vulgaris, C. contraria, C. aspera, C. globularis, C. connivens, C. canescens, Tol. glomerata, N. capillaris in: Charetum contrariae, Nitellopsidetum, Lemno-Nitelletum capillaris, Charetum canescentis, Charetum vulgaris, Nitelletum translucentis, Charetum asperae]
ABBINK-MEIJERINK, C.G. & EYSINK, F.T.W., 1999. Een nieuw kranswier voor Nederland duikt op in Twents natuurherstelproject: Nitella gracilis (Smith) Agardh (Sierlijk glanswier). (Nitella gracilis (Smith) Agardh appears in the east of the Netherlands). Gorteria 25: 26-28, 1 fig. (distribution map). [Dutch, english summary] [C. globularis, C. vulgaris, N. gracilis, N. mucronata, N. translucens].
BIURRUN, I., 1999. Flora y vegetación de los ríos y humedales de Navarra. GuineanA vol. 5; Universidad del País Vasco/Euskal Herriko Unibertsitatea, Leioa. VIII + 338 pp., 7 maps. [Spanish] [Characeae in Phragmitetea and Potametea vegetations]
BLAZENCIC, J. & BLAZENCIC, Z., 1999. Doiran lake charophytes. God. zb., Biol.-Prir.-mat. fak. Univ. "Sv. Kiril i Metodij" Skopje 52: 83-92, 9 figs. (1 map). [C. contraria, C. vulgaris, C. gymnophylla, C. tenuispina, C. conimbrigensis, C. ohridana, C. conniventi-fragilis]
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VAITHIYANATHAN, P. & RICHARDSON, C.J., 1999. Macrophyte species changes in the Everglades: examination along a eutrophiccation gradient. Journal of Environmental Quality 28: 1347-1358, 10 figs. (1 map, 16 distribution maps). [C. zeylanica]
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BRUINSMA, H.J.P., 1998b. Kranswieren in stromend water. In: J.C. van Raam (ed.) - Handboek Kranswieren. pp. 66-69. Chara boek, Hilversum. 229 pp., 38 (7 maps, 5 distribution maps) + 122 figs., 27 pl., 41 distribution maps. [Dutch] [10 Chara, 6 Nitella species, Nitellopsis obtusa].
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GARCIA, A., 1998. Nitella ignescens sp. nov. and N. ungula sp. nov. (Charales, Charophyta) from Australia. Phycologia 37: 53-59, 26 figs. [N. ignescens spec. nov., N. ungula spec. nov., N. penicillata, N. tumida, N. globulifera, N. subtilissima, N. verticillata, C. fibrosa, C. globularis, Lamp. macropogon]
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Stuttgart. 314 pp., figs. [see also Krause 1998] [6 Nitella, 11 Chara, 3 Tolypella species, Nitellopsis obtusa, Lychn. barbatus]
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OBERDORFER, E. & DIERßEN, K., 1998a. Klasse Littorelletea Br. Bl. et Tx. 43. In: E. Oberdorfer (red.) - Süddeutsche Pflanzengesellschaften. Teil 1. 4. Auflage. Fischer Verlag, Berlin & Stuttgart. [N. flexilis].
VAN DE WEYER, K., 1998. Nachträge zur Flora und Vegetation des Naturschutzgebietes Elmpter Schwalmbruch (Niederrhein, Nordrhein-Westfalen). Decheniana 151: 57-70. [N. translucens, N. flexilis, C. delicatula, C. globularis]
VAN RAAM, J.C., 1998a. Handboek Kranswieren. Chara boek, Hilversum. 229 pp., 38 (7 maps, 5 distribution maps) + 122 figs., 27 pl., 41 distribution maps. [Dutch] [Key] [Red List] [13 Chara, 10 Nitella, 4 Tolypella species, Lamp. papulosum, Lychn. barbatus, Nitellopsis obtusa]
VAN RAAM, J.C., 1998b. De ontwikkeling van de kranswiervegetaties in de Loosdrechtse plassen. De Wijde Blik 98/3: 65, fig. 1-4. [Dutch] [Nitellopsis obtusa, C. aspera, N. hyalina, N. mucronata]
WELLS, R.D.S., CLAYTON, J.S. & DE WINTER, M.D., 1998. Submerged vegetation of Lakes Te Anau, Mnapouri, Monowai, Hauroko and Poteriteri, Fiordland, New Zealand. New Zealand Journal of Marine and Freshwater Research 32: 621-638. [C. fibrosa, C. australis (as corallina)]
WELLS, R.D.S., CLAYTON, J.S. & DE WINTON, M.D., 1998. Submerged vegetation of lakes Te Anau, Manapouri, Monowai, Hauroko and Poteriteri, Fiordland, New Zealand. New Zealand Journal of Marine and Freshwater Research 32: 621-638, 6 figs. (1 map). [C. braunii, C. corallina (australis), C. fibrosa, N. hookeri, N. pseudoflabellata, N. leptostachys, N. stuartii, N. hyalina]

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charaboek@hotmail.com

Annotated Bibliography of the Characeae Febr. 2004

Anatomy & Karyology

J.C. van Raam

AGARDH, C.A., ... Über die Anatomie und den Kreislauf der Charen. Nova Acta Phys. Med. Acad. Ceas. Leop. Carol. Nat. Cur. 13(1):
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charaboek@hotmail.com

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J.C. van Raam

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BRAUN, A., 1835. Uebersicht der genauer bekannten Chara-Arten. Flora 18: 49-73. [Chara africana n. spec. (new name for Chara gracilis var. senegalensis, is Nitella africana), Chara Pouzolsii Gay herb. n. spec. (is Lamprothamnium pouzolsii), Chara Roxburgii n. spec. (is Chara corallina see Zaneveld 1940 p. 132), Chara gymnophylla n. spec., Chara Commersonii n. spec. (is? Chara zeylanica), Chara polyphylla n. spec. (is? Chara zeylanica), N. hyalina, N. gracilis, N. flexilis, N. capillaris (as syncarpa), N. tenuissima, N. opaca (as syncarpa var. opaca), N. translucens (Nitella as Chara), Nitellopsis obtusa

(as Chara stelligera), Tol. glomerata, Tol. prolifera, Tol. intricata (as polysperma) (Tolypella as Chara), Lychn. barbatus (as Chara barbata), C. braunii (as coronata), C. baueri (as scoparia), C. squamosa, C. baltica (as Nolteana), C. foetida, C. tomentosa (as ceratophylla), C. hispida, C. canescens (as crinita), C. aspera, C. fragilis, C. tenuispina, C. connivens]
BRAUN, A., 1843a. Charae Preissianae (adjectis reliquis speciebus e nova Hollandia hucusque cognitus). Linnaea 17: 113-119. [same as Braun, A., 1846b] [Chara heterophylla n. spec., Chara Lhotzkyi n. spec., Chara gelatinosa n. spec., Chara macropogon n. spec., Chara Preissii n. spec., N. congesta, C. australis, C. plebeja]
BRAUN, A., 1843b. Characeae. In: J.F. Drège - Zwei pflanzengeographische Documente, nebst einer Einleitung von Dr. E. Meyer. Flora 26, Suppl.: 1-230. [Chara capensis n. spec.]
BRAUN, A., 1844. A brief notice of the Charae of North America. (with introduction by G.E. Engelmann) The American Journal of Science and Arts 46: 92-93. [N. flexilis, N. glomerulifolia, N. mucronata, N. capitellata, N. tenuissima (Nitella as Chara), C. schweinitzii, C. vulgaris, C. aspera, C. fragilis, C. foliolosa, C. michauxii].
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BRAUN, A., 1846a. Characeae. In: F. Krauss - Pflanzen des Cap- und Natal-Landes, gesammelt und zusammengestellt von Dr. Ferdinand Krauss. p. 193. Flora 29: 193-219.
BRAUN, A., 1846b. Characeae. In: C. Lehman (ed.) - Plantae Preissianae sive enumeratio plantarum quas in Australasia occidentali et meridionali-occidentali annus 1838-1841 collegit Ludovicus Preiss, partim ab aliis partim a se ipso determinatis descriptas illustratas. vol. 2. pp. 145-148. Meissner, Hamburg. VI + 499 pp. [Same as A. Braun 1843a] [Key] [C. heterophylla, C. Lhotzkyi, C. gelatinosa, C. macropogon, C. Preissii, N. congesta, C. australis, C. plebeja].
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BRAUN, A., 1847b. Übersicht der Schweizerischen Characeen. Ein Beitrag zur Flora der Schweiz. Neue Denkschriften der Schweizerische Gesellschaft der Naturwissenschaften 10: 1-23. [8 Nitella, 10 Chara, 3 Tolypella species].
BRAUN, A., 1849a. Charae Australes et Antarticae, or characters and observations on the Characeae of Australia and the southern circumpolar regions. Hooker's Journal of Botany and Kew Garden Miscellany 1: 193-203. [Nitella microphylla n. spec. Nitella subtilissima n. spec., N. gloeostachys n. spec., N. penicillata n. spec., N. biformis n. spec., N. leptostachys n. spec., N. Hookeri n. spec., N. antarctica n. spec., C. Drummondii, C. Hooker, C. australis, C. Preissii, N. gelatinosa, N. Lhotzkyi, N. heterophylla, N. congesta, Lamp. macropogon].
BRAUN, A., 1849b. Characeae Indiae orientalis et insularum Maris Pacifici or characters and observations on the Characeae of the East Indian continent, Ceylon, Sunda Islands, Marians and Sandwich Islands. Hooker's Journal of Botany and Kew Garden Miscellany 1: 292-301. [Nitella Roxburghii n. spec., Nitella flagelliformis, n. spec., Nitella byssoides n. spec., N. acuminata, C. coronata, C. flaccida, C. hydropitys, C. brachypus, C. polyphylla, C. corallina, C. foetida].
BRAUN, A., 1852a. Characeae. In: D.F.L. von Schlechtendal - Plantae Muellerianae. Linnaea 25: 704-709. [Nitella Stuartii n. spec., Nitella Sonderi n. spec., Nitella cristata n. spec., N. tasmanica n. spec., C. myriophylla n. spec., C. gymnopitys n. spec., N. Gunnii, N. gelatinosa, N. aemula, C. contraria, C. Hookeri, C. scoparia, C. fragilis, Lamp. macropogon].
BRAUN, A., 1857. Über Parthenogenesis bei Pflanzen. Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin für das Jahr 1856: 311-376, 1 pl. [C. canescens (as C. crinita) & 13 Chara, 4 Nitella, 3 Lamprothamnium species, Nitellopsis obtusa, Tol. nidifica]
BRAUN, A., 1858. Characeen aus Columbien, Guyana und Mittelamerika. Monatsbericht der Königlichen Akademie der Wissenschaften zu Berlin vom Juni 1858: 349-368. [Nitella cernua n. spec., Nitella Gollmeriana n. spec., Nitella subglomerata n. spec., Nitella axillaris n. spec., Nitella microcarpa n. spec., N. oligospira n. spec., N. gracilis, C. hydropitys, C. zeylanica (as C. polyphylla), C. sejuncta, C. inconstans].
BRAUN, A., 1860. Characeae. In: J.D. Hooker - The botany The antarctic voyage of H.M. discovery ships Erebus and Terror in the years 1839-1843, under the command of Captain Sir James Clark Ross. Part III. Flora Tasmaniae. Vol. II. Monocotyledones and Acotyledones. pp. 159-160. Lovell Reeve, London. 422 pp. Reprint 1963, Cramer, Weinheim. [Characeae pp. 159-160, 376: 6 Nitella, 7 Chara species, Lamp. macropogon (as C. macropogon)].

BRAUN, A., 1866. Characeen. In: G. von Martens - Die Tange. In: Die Preussische Expedition nach Ost-Asien. Nach amtlichen Quellen. Botanische Theil. Anhang, p. 143. Verlag der königlichen geheimen Ober-Hofbuchdruckerei, Berlin. 152 pp., 8 pl. [N. pseudoflabellata, N. polyglochin, C. ceylanica].
BRAUN, A., 1867b. Die Characeen Afrika's. Monatsbericht der Königlichen Preussischen Akademie der Wissenschaften zu Berlin vom Dezember 1867: 782-800. [Continued in Braun 1868]. [Key] [african species in Tabelle I: 9 Nitella species (+ 12 "subspecies"), Tol. nidifica (+ 2 "subspecies"), 11 Chara species (+ 14 "subspecies"), Lamp. papulosum (as alopecuroides); european species in Tabelle II: 5 Nitella species (+ 9 "subspecies"), Tol. nidifica (+ 3 "subspecies"), Lychn. barbatus, Lamp. papulosum (as alopecuroides) (+ 1 "subspecies"), Nitellopsis obtusa (as Chara stelligera), 11 Chara species (+ 15 "subspecies")]
BRAUN, A., 1867c. Characeae. In: G.A. Schweinfurth - Beiträge zur Flora Aethiopiens. Erste Abtheilung. pp. 228-230. Georg Reimer, Berlin. XII & 311 pp., 4 pl. [also specimens from Egypt] [N. mucronata, N. gracilis, N. hyalina, C. braunii (as coronata), C. canescens (as crinita), C. gymnophylla, C. vulgaris (as foetida), C. connivens, C. fragilis, C. gymnopus, C. brachypus]
BRAUN, A., 1867d. Characeae. In: J.D. Hooker - Handbook of the New Zealand Flora: a systematic description of the native plants of New Zealand and the Chatham, Kermadec's, Lord Auckland's, Campbell's, and Macquarrie's Islands. (Part 2). p. 549-550. Reeve & Co., London. LXVIII + 798 pp. Part 1 (1864): pp. LXVIII & 1-392; part 2 (1867): pp. 393-798. [Nitella interrupta n. spec., N. hyalina, N. hookeri, C. foetida, C. contraria].
BRAUN, A., 1868. Die Characeen Afrika's, Fortsetzung. Monatsbericht der Königlichen Preussischen Akademie der Wissenschaften zu Berlin vom Dezember 1867: 873-944. [first part as Braun 1867b] [Both parts reprinted and repaged: 782-872, issued in 1868]. [description of african taxa] [18 Nitella, 2 Tolypella, 24 Chara species, Lamp. papulosum (as alopecuroides)]
BRAUN, A., 1876a. Ueber die Characeenflora der Mark Brandenburg. Verhandlungen der Botanische Ver. Brandenburg, Sitzungsberichte 18: 42-44.
BRAUN, A., 1876b. Characeen (Armleuchter-Gewächse). In: F. Cohn (ed.) - Kryptogamen-Flora von Schlesien. Erster Band. Gefäss-Kryptogamen, bearbeitet von Dr. K. Gustav Stenzel. Laub- und Lebermoose, bearbeitet von K. Gustav Limpricht. Characeen, bearbeitet von Professor Dr. Alexander Braun. pp. 353-411. J.U. Kern's Verlag, Breslau. XII & 471 pp. [Key] [9 Nitella, 2 Tolypella, 15 Chara species, Lychn. barbatus, Nitellopsis obtusa (as Chara stelliger)]
BRAUN, A., 1881. Characeae Australianae hactenus cognitae. In: F. von Mueller - Fragmentorum Phytographiae Australiae, indices plantarum acotyldonorum complectens. Supplementum ad Vol. XI. pp. 43-44. Guberni Coloniae Victoria, J. Ferres, Melbourne. 132 pp. Reprint 1974: A. Asher & Co., Amsterdam. [9 Chara, 18 Nitella species, Lamp. macropogon (as Chara)]
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maps), 41 pl., 27 tab. [Key] [Nitella pusilla n. spec., Nitella erecta n. spec., Nitella inversa n. spec., Nitella robusta n. spec.] [8 Chara, 46 Nitella species, Tol. gracilis].
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C. tomentosa, C. canescens (as C. hispida χ crinita), C. baltica (as C. hispida δ baltica), C. tomentosa, N. flexilis (as Chara), N. gracilis (as Chara)]
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charaboek@hotmail.com

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J.C. van Raam

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charaboek@hotmail.com

Annotated Bibliography of the Characeae Febr. 2004

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J.C. van Raam

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charaboek@hotmail.com

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charaboek@hotmail.com

Recent Morphology (1998-2003)
Descriptions & figures

J.C. van Raam

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charaboek@hotmail.com

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J.C. van Raam

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charaboek@hotmail.com

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J.C. van Raam

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ALLEN, T.F., 1898b. Contributions to Japanese Characeae. New York. 18 pp., 24 pl. [Text reprinted from Bulletin of the Torrey Botanical Club, see: T.F.Allen, 1894b, 1895, 1898a] [plates of: N. multipartita (4), N. Saitoiana, N. Tanakiana, N. rigida, N. pulchella (2), N. subspicata, N. stellaris, N. capitulifera, N. laxa (2), N. paucicostata, N. pseudoflabellata (3), N. sublucens, N. expansa (2), N. gracillima, N. orientalis (2)].
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BOURRELLY, P., 1990. Les algues d'eau douce. Initiation à la systématique. Tome 1: Les algues vertes. Société Nouvelle des Éditions Boubée, Paris. (réimpression + compléments). 572 pp., figs., 121 pl. [Key] [Charophycées pp. 457-475, 562, pl. 111-117: C. vulgaris, C. tomentosa, C. braunii, C. hispida, C. canescens, C. globularis, C. aspera, N. hyalina, N. opaca, N. flexilis, N. translucens, N. mucronata, N. tenuissima, Lamp. papulosum, Lychn. barbatus, Nitellopsis obtusa, Tol. glomerata, Tol. intricata, Tol. prolifera]
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BRAUN, A., 1834. Esquisse monographique du genre Chara. Annales des Sciences Naturelles, sér. 2 Botanique 1: 349-357 (Introduction by J. Gay pp. 349-350). [Chara mucronata n. spec. (is Nitella mucronata), Chara prolifera Ziz herb. n. spec. (is Tolypella prolifera), Chara polysperma n. spec. (is Tolypella intricata), Chara Nolteana n. spec. (is C. baltica), Chara foetida n. spec. (is C. vulgaris), Chara tenuispina n. spec. (as C. tenuissima typ. error), N. hyalina, N. gracilis, N. flexilis, N. capillaris (as capitata), N. opaca, N. translucens (Nitella as Chara), Nitellopsis obtusa (as Chara stelligera), Lychn. barbatus (as Chara barbata), C. braunii (as coronata), C. baueri (as scoparia), C. squamosa, C. baltica, C. tomentosa (as ceratophylla), C. hispida, C. canescens (as crinita), C. aspera, C. fragilis]
BRAUN, A., 1835. Uebersicht der genauer bekannten Chara-Arten. Flora 18: 49-73. [Chara africana n. spec. (new name for Chara gracilis var. senegalensis, is Nitella africana), Chara Pouzolsii Gay herb. n. spec. (is Lamprothamnium pouzolsii), Chara Roxburgii n. spec. (is Chara corallina see Zaneveld 1940 p. 132), Chara gymnophylla n. spec., Chara Commersonii n. spec. (is? Chara zeylanica), Chara polyphylla n. spec. (is? Chara zeylanica), N. hyalina, N. gracilis, N. flexilis, N. capillaris (as syncarpa), N. tenuissima, N. opaca (as syncarpa var. opaca), N. translucens (Nitella as Chara), Nitellopsis obtusa (as Chara stelligera), Tol. glomerata, Tol. prolifera, Tol. intricata (as polysperma) (Tolypella as Chara), Lychn. barbatus (as Chara barbata), C. braunii (as coronata), C. baueri (as scoparia), C. squamosa, C. baltica (as Nolteana), C. foetida, C. tomentosa (as ceratophylla), C. hispida, C. canescens (as crinita), C. aspera, C. fragilis, C. tenuispina, C. connivens]

BRAUN, A., 1843a. Charae Preissianae (adjectis reliquis speciebus e nova Hollandia hucusque cognitus). Linnaea 17: 113-119. [same as Braun, A., 1846b] [Chara heterophylla n. spec., Chara Lhotzkyi n. spec., Chara gelatinosa n. spec., Chara macropogon n. spec., Chara Preissii n. spec., N. congesta, C. australis, C. plebeja]
BRAUN, A., 1843b. Characeae. In: J.F. Drège - Zwei pflanzengeographische Documente, nebst einer Einleitung von Dr. E. Meyer. Flora 26, Suppl.: 1-230. [Chara capensis n. spec.]
BRAUN, A., 1844. A brief notice of the Charae of North America. (with introduction by G.E. Engelmann) The American Journal of Science and Arts 46: 92-93. [N. flexilis, N. glomerulifolia, N. mucronata, N. capitellata, N. tenuissima (Nitella as Chara), C. schweinitzii, C. vulgaris, C. aspera, C. fragilis, C. foliolosa, C. michauxii].
BRAUN, A., 1845. Additional notes of the North American Characeae. In: G. Engelmann & A. Gray - Plantae Lindheimerianae. p. 264, footnote 1. Boston Journal of Natural History 5: 208-264. [N. flexilis, N. tenuissima (Nitella as Chara), C. zeylanica (as C. polyphylla), C. sejuncta]
BRAUN, A., 1846b. Characeae. In: C. Lehman (ed.) - Plantae Preissianae sive enumeratio plantarum quas in Australasia occidentali et meridionali-occidentali annus 1838-1841 collegit Ludovicus Preiss, partim ab aliis partim a se ipso determinatis descriptas illustratas. vol. 2. pp. 145-148. Meissner, Hamburg. VI + 499 pp. [Same as A. Braun 1843a] [Key] [C. heterophylla, C. Lhotzkyi, C. gelatinosa, C. macropogon, C. Preissii, N. congesta, C. australis, C. plebeja].
BRAUN, A., 1847a. Chara Kokeilii, eine neue deutsche Art, beschrieben von Alexander Braun, Professor der Botanik in Freiburg in Breisgau. Flora 30: 17-29. [Chara kokeilii n. spec., N. capillaris, N. opaca, N. flexilis, N. gracilis, C. foetida, C. hispida, C. tomentosa, C. aspera]
BRAUN, A., 1847b. Übersicht der Schweizerischen Characeen. Ein Beitrag zur Flora der Schweiz. Neue Denkschriften der Schweizerische Gesellschaft der Naturwissenschaften 10: 1-23. [8 Nitella, 10 Chara, 3 Tolypella species].
BRAUN, A., 1849a. Charae Australes et Antarticae, or characters and observations on the Characeae of Australia and the southern circumpolar regions. Hooker's Journal of Botany and Kew Garden Miscellany 1: 193-203. [Nitella microphylla n. spec. Nitella subtilissima n. spec., N. gloeostachys n. spec., N. penicillata n. spec., N. biformis n. spec., N. leptostachys n. spec., N. Hookeri n. spec., N. antarctica n. spec., C. Drummondii, C. Hooker, C. australis, C. Preissii, N. gelatinosa, N. Lhotzkyi, N. heterophylla, N. congesta, Lamp. macropogon].
BRAUN, A., 1849b. Characeae Indiae orientalis et insularum Maris Pacifici or characters and observations on the Characeae of the East Indian continent, Ceylon, Sunda Islands, Marians and Sandwich Islands. Hooker's Journal of Botany and Kew Garden Miscellany 1: 292-301. [Nitella Roxburghii n. spec., Nitella flagelliformis, n. spec., Nitella byssoides n. spec., N. acuminata, C. coronata, C. flaccida, C. hydropitys, C. brachypus, C. polyphylla, C. corallina, C. foetida].
BRAUN, A., 1852a. Characeae. In: D.F.L. von Schlechtendal - Plantae Muellerianae. Linnaea 25: 704-709. [Nitella Stuartii n. spec., Nitella Sonderi n. spec., Nitella cristata n. spec., N. tasmanica n. spec., C. myriophylla n. spec., C. gymnopitys n. spec., N. Gunnii, N. gelatinosa, N. aemula, C. contraria, C. Hookeri, C. scoparia, C. fragilis, Lamp. macropogon].
BRAUN, A., 1857. Über Parthenogenesis bei Pflanzen. Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin für das Jahr 1856: 311-376, 1 pl. [C. canescens (as C. crinita) & 13 Chara, 4 Nitella, 3 Lamprothamnium species, Nitellopsis obtusa, Tol. nidifica]
BRAUN, A., 1858. Characeen aus Columbien, Guyana und Mittelamerika. Monatsbericht der Königlichen Akademie der Wissenschaften zu Berlin vom Juni 1858: 349-368. [Nitella cernua n. spec., Nitella Gollmeriana n. spec., Nitella subglomerata n. spec., Nitella axillaris n. spec., Nitella microcarpa n. spec., N. oligospira n. spec., N. gracilis, C. hydropitys, C. zeylanica (as C. polyphylla), C. sejuncta, C. inconstans].
BRAUN, A., 1860. Characeae. In: J.D. Hooker - The botany The antarctic voyage of H.M. discovery ships Erebus and Terror in the years 1839-1843, under the command of Captain Sir James Clark Ross. Part III. Flora Tasmaniae. Vol. II. Monocotyledones and Acotyledones. pp. 159-160. Lovell Reeve, London. 422 pp. Reprint 1963, Cramer, Weinheim. [Characeae pp. 159-160, 376: 6 Nitella, 7 Chara species, Lamp. macropogon (as C. macropogon)].
BRAUN, A., 1867a. Conspectus systematicus Characearum europaearum. (Beilage zum dritten heft von Rabenhorst's Characeae Exsiccatae). Dresden. 8 pp. [Chara intermedia n.spec., 14 Nitella, 4 Tolypella (as Nitella subsp. Tolypella), 26 Chara, 2 Lamprothamnium (as Chara) species, Lychn. barbatus (as Chara), Nitellopsis obtusa (as Chara stelligera)].
BRAUN, A., 1867b. Die Characeen Afrika's. Monatsbericht der Königlichen Preussischen Akademie der Wissenschaften zu Berlin vom Dezember 1867: 782-800. [Continued in Braun 1868]. [Key] [african species in Tabelle I: 9 Nitella species (+ 12 "subspecies"), Tol. nidifica (+ 2 "subspecies"), 11

Chara species (+ 14 "subspecies"), Lamp. papulosum (as alopecuroides); european species in Tabelle II: 5 Nitella species (+ 9 "subspecies"), Tol. nidifica (+ 3 "subspecies"), Lychn. barbatus, Lamp. papulosum (as alopecuroides) (+ 1 "subspecies"), Nitellopsis obtusa (as Chara stelligera), 11 Chara species (+ 15 "subspecies")]
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WAHLENBERG, G., 1833. Flora svecica, enumerans plantas Sveciae indigenas cum synopsi classium ordinumque, characteribus generum, differntiis specierum, synonymis citationibusque selectis, locis

regionibusque natalibus, descriptionibus habitualibus, nomina incolarum et qualitates plantarum illustrantibus. Post Linnaeum edita. Pars posterior. ed. 2. Palmblad e C., Upsaliae. pp. 447-1134. [Chara pp. 715-719, 1094: C. vulgaris, C. hispida, C. tomentosa, C. canescens (as C. hispida χ crinita), C. baltica (as C. hispida δ baltica), C. tomentosa, N. flexilis (as Chara), N. gracilis (as Chara)]
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WALLMAN, J.H., 1853c. Försök till en systematisk uppställning af växtfamiljen Characea. Stockholm. 103 pp. [Swedish, also as Wallman 1854, french translation Wallman 1856] [Key] [Nitella Braunii n. spec., Nitella norvegica n. spec., Nitella virgata n. spec., Nitella Walbergiana n. spec., Nitella anomala n. spec., Nitella procera n. spec., Nitella atrovirens n. spec., Chara. Hornemannii n. spec., Chara Wikströmii n. spec., Chara coarctata n. spec., Chara sphagnoïdes n. spec., Chara crispa n. spec., Chara Liljebladii n. spec., Chara acicularis n. spec., Chara Agardhiana n. spec., Chara annulata n. spec.; 40 Nitella, 2 Nitellopsis (as Nitella), 7 Tolypella (as Nitella), 2 Lamprothamnium (as Chara), 2 Lychnothamnus (as Chara), 62 Chara species]
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WALLROTH, F.G., 1833. Flora cryptogamia Germaniae. Pars posterior - continens Algas et Fungos. In: M.J. Bluff & C.A. Fingerhuth - Compendium florae Germanicae. Sectio II plantae cryptogamicae s. cellulosae. Tomus IV. J.L. Schrag, Norimbergae. LVI & 923 pp. [Gyrophykea pp. 100-114: N. gracilis, N. flexilis, N. translucens (Nitella as Chara), Lychn. barbatus (as Chara), Lamp. papulosum (as Chara), C. braunii (as coronata), C. globularis (as pulchella), C.canescens (as crinita), C. vulgaris, C. hispida, C. tomentosa (as ceratophylla)]
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WETTSTEIN, R., 1924. Handbuch der systematischen Botanik. 3e Auflage. Deuticke, Leipzig-Wien. I-VIII, 1-1018, 653 Abb. [Characeae p.169-172, 146, 148, 260, figs 107, 108]
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WILLDENOW, C.L., 1806. Ueber die Gattung Chara. Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin 1803: 54-62, pl. 2. [was first published as french translation see Willdenow 1805] [C. setosa, C. foliolosa, C. zeylanica, C. corallina, C. hispida, C. tomentosa, C. squamosa, C. flexilis]
WILLIAMS, M.B., 1959. A revision of Nitella cristata Braun (Characeae) and its allies. Part II. Taxonomy. Proceedings of the Linnean Society of New South Wales 84: 346-356, 6 figs. (3 distribution maps). [Key] [Nitella reticulata n. spec., Nitella microteles n. spec., N. diffusa, N. cristata]

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WITT, A., 1906. Beiträge zur Kenntnis von Chara ceratophylla Wallroth und Chara crinita Wallroth. Dissertation Universität Zürich & Borne, Leipzig. 44 pp., 15 figs., 1 pl. [C. tomentosa (as ceratophylla), C. canescens (as crinita)]
WOLLEY-DOD, A.H., 1937. Flora of Sussex. Kenneth Saville, Hastings. LXXIII + 571 pp., 6 pl., 2 maps. [Characeae (det. J. Groves) pp.553-557: C. delicatula, C. globularis, C. aspera (excluded), C. hispida, C. vulgaris, Tol. glomerata, Tol. prolifera, N. gracilis, N. mucronata, N. translucens, N. flexilis, N. opaca]
WOMERSLEY, H.B.S. & OPHEL, I.L., 1947. Protochara, a new genus of Characeae from Western Australia. Transactions of the Royal Society of South Australia 71: 311-317, 2 figs. [Key] [Protochara australis n. spec., Protochara inflata, N. verticillata, N. gelatinosa, Lamp. macropogon]
WOOD, R.D. & IMAHORI, K., 1964. Iconograph of the Characeae. In: R.D. Wood & K. Imahori - A revision of the Characeae. Vol. II. Cramer, Weinheim.. XXV + 7 pp., icones 1-395. [19 Chara, 54 Nitella, 3 Lamprothamnium, 3 Nitellopsis, 2 Tolypella species, Lychn. barbatus]
WOOD, R.D. & MASON, R., 1977. Characeae of New Zealand. New Zealand Journal of Botany 15: 87-180, 53 figs. (2 maps, 16 distribution maps). [Key] [5 Chara, 8 Nitella species, Lamp. papulosum, Tol. nidifica]
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WOOD, R.D., 1948a. On Raffinesque's names for the Characeae. Bulletin of the Torrey Botanical Club 75: 282-285. [C. contraria, N. capitellata, N. acuminata, N. flexilis, N. praelonga, N. morongii, C. fetidissima, C. patens, Acinaria, Leiacina]
WOOD, R.D., 1949a. Monographic studies on the Characeae I. Emandation of Nitella Morongii. Rhodora 51: 13-18, pl. 119. [N. morongii, N. maxceana, N. gracilis, N. batrachosperma, N. translucens]
WOOD, R.D., 1950a. Braun's "Fragmente" and the nomenclature of the Characeae. Bulletin of the Torrey Botanical Club 77: 35-37. [N. acuminata, C. gymnopus]
WOOD, R.D., 1950b. Braun's "Fragmente" and the nomenclature of the Characeae -II. Nitella mucronata. Bulletin of the Torrey Botanical Club 77: 181-186. [N. mucronata]
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charaboek@hotmail.com

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charaboek@hotmail.com