

JOHN FRANCIS TALLING

Bibliography

Jack Francis Talling - Bibliography

1. Talling, J.F. 1951 The element of chance in pond populations. *Naturalist, Hull* **1951**, 157- 170.
2. Talling, J.F. 1955 The relative growth rates of three plankton diatoms in relation to underwater radiation and temperature. *Ann. Bot.* **19**, 329-341.
3. Talling, J.F. 1955 The light-relations of phytoplankton populations. *Proc. Intern. Assoc. Theoret. Appl. Limnology* **12**, 141-142.
4. Talling, J.F. 1957 Photosynthetic characteristics of some freshwater plankton diatoms in relation to underwater radiation. *New Phytol.* **56**, 29-50.
5. Talling, J.F. 1957 The phytoplankton population as a compound photosynthetic system. *New Phytol.* **56**, 133-149.
6. Talling, J.F. 1957 The growth of two plankton diatoms in mixed cultures. *Physiol. Plant.* **10**, 215-223.
7. Talling, J.F. 1957 Diurnal changes of stratification and photosynthesis in some tropical African waters. *Proc. Roy. Soc. B* **147**, 57-83.
8. Talling, J.F. 1957 Some observations on the stratification of Lake Victoria. *Limnol. Oceanogr.* **2**, 213-221.
9. Talling, J.F. 1957 The longitudinal succession of water characteristics in the White Nile. *Hydrobiologia* **11**, 73-89.
10. Lund, J.W.G. and Talling, J.F. 1957 Botanical limnological methods with special reference to the algae. *Bot. Rev.* **23**, 489-583.
11. Prowse, G.A. and Talling, J.F. 1958 The seasonal growth and succession of plankton algae in the White Nile. *Limnol. Oceanogr.* **3**, 222-238.
12. Talling, J.F. 1960 Comparative laboratory and field studies of photosynthesis by a marine planktonic diatom. *Limnol. Oceanogr.* **5**, 62-77.
13. Talling, J.F. 1960 Self-shading effects in natural populations of a planktonic diatom. *Wetter und Leben* **12**, 235-242.
14. Talling, J.F. 1961 Photosynthesis under natural conditions. *Ann. Rev. Plant Physiol.* **12**, 133-154.
15. Talling, J.F. 1962 Freshwater algae. In *Physiology and Biochemistry of Algae* (R.A. Lewin ed), pp 743-757. Academic Press.
16. Talling, J.F. 1963 Origin of stratification in an African Rift Lake. *Limnol. Oceanogr.* **8**, 68-78.
17. Baxter, RM., Prosser, M.V., Talling, J.F. and Wood, RB. 1965 Stratification in tropical African lakes at moderate altitudes 1500 to 2000m. *Limnol. Oceanogr.* **10**, 510-520.
18. Talling, J.F. and Driver, D. 1963 Some problems in the estimation of chlorophyll *a* in phytoplankton. In *Primary productivity measurement, marine and freshwater*. (ed M.S. Doty), pp142-146. US Atomic Energy Commission.
19. Talling, J.F. 1965 The photosynthetic activity of phytoplankton in East African lakes. *Int. Rev. Gesamten Hydrobiol.* **50**, 1-32.
20. Talling, J.F. and Talling, I.B. 1965 The chemical composition of African lake waters, *Int. Rev. Gesamten Hydrobiol.* **50**, 421-463.
21. Talling, J.F. 1965 Comparative problems of phytoplankton production and photosynthetic productivity in a tropical and a temperate lake. *Mem. Ist Ital. Idrobiol.*, **18** Suppl., 399-424.
22. Talling, J.F. 1966 The annual cycle of stratification and phytoplankton growth in Lake Victoria East Africa. *Intern. Rev. Hydrobiol.* **51**, 545-621.
23. Talling, J.F. 1966 Photosynthetic behaviour in stratified and unstratified lake populations of a planktonic diatom. *J. Ecol.* **54**, 99-127.
24. Talling, J.F. and Rzóska, J. 1967 The development of plankton in relation to hydrological regime in the Blue Nile. *J. Ecol.* **55**, 637-662.
25. Talling, J.F. 1969 Several short contributions to '*A manual on methods for measuring primary production in aquatic environments*' (ed. R.A. Vollenweider), IBP Handbook No 12, Blackwells. Revised 2nd impression, 1974
26. Talling, J.F. 1969 The incidence of vertical mixing, and some biological and chemical

- consequences, in tropical African lakes. *Proc. Intern. Assoc. Theoret. Appl. Limnology* **17**, 998-1012.
27. Talling, J.F. 1970 Generalized and specialized features of phytoplankton as a form of photosynthetic cover. In: *Prediction and Measurement of photosynthetic productivity*. Centre for Agricultural Publishing and Documentation, Wageningen, Netherlands, pp431-445.
 28. Talling, J.F. 1971 The underwater light climate as a controlling factor in the production ecology of freshwater phytoplankton. *Mitt. Internat. Verein. Limnol.* **19**, 214-243.
 29. Talling, J.F., Wood, RB., Prosser, M.V. and Baxter, RM. 1973 The upper limit of photosynthetic productivity by phytoplankton: evidence from Ethiopian soda lakes. *Freshwat. Biol.* **3**, 53-76.
 30. Talling, J.F. 1973 The application of some electrochemical methods to the measurement of photosynthesis and respiration in fresh waters. *Freshwat. Biol.* **3**, 335-362.
 31. Talling, J.F. 1975 Primary production of freshwater microphytes. In *Photosynthesis and productivity in different environments* (J.P. Cooper ed), pp 225-247. International Biological Programme 3. Cambridge University Press.
 32. Talling, J.F. 1975 Primary production of aquatic plants - conclusions. In *Photosynthesis and productivity in different environments* (J.P. Cooper, J.P. ed), pp 281-294. International Biological Programme 3. Cambridge University Press.
 33. Talling, J.F. 1976 The depletion of carbon dioxide from lake water by phytoplankton. *J. Ecol.* **64**, 79-121.
 34. Talling, J.F. 1976 Water characteristics. In *The Nile, biology of an ancient river* (J. Rzóska, ed), pp 357-384. Junk.
 35. Talling, J.F. 1976 Phytoplankton: composition, development and productivity. In *The Nile, biology of an ancient river* (J. Rzóska, ed) pp. 385-402. Junk.
 36. Mackereth, F.J.H., Heron, J. and Talling, J.F. 1978 *Water analysis: some revised methods for limnologists*. *Sci. Pub. Freshw. Biol. Ass.* **36**, 120 pp.
 37. Craig, J.F., Kenley, M.J. and Talling, J.F. 1978 Comparative estimations of the energy content of fish tissue from bomb calorimetry, wet oxidation and proximate analysis. *Freshwat. Biol.* **8**, 585-590 .
 38. Harris, G.P., Heaney, S.I. and Talling, J.F. 1979 Physiological and environmental constraints in the ecology of the planktonic dinoflagellate *Ceratium hirundinella*. *Freshwat. Biol.* **9**, 413-428.
 39. Talling, J.F. 1979 Factor interactions and implications for the prediction of lake metabolism. *Arch. Hydrobiol. Beih., Ergebn. Limnol.* **13**, 96-109.
 40. Talling, J.F. 1980 Some problems of aquatic environments in Egypt from a general viewpoint of Nile ecology. *Water Supply Manage.* **4**, 13-20.
 41. Talling, J.F. 1980 Water characteristics. In *Euphrates and Tigris, Mesopotamian ecology and destiny* (J. Rzóska ed), pp. 63-79.
 42. Talling, J.F. 1980 Phyto lankton. In *Euphrates and Tigris, Mesopotamian ecology and destiny* (J. Rzóska ed), pp. 81-86. Junk.
 43. Heaney, S.I. and Talling, J.F. 1980 Dynamic aspects of dinoflagellate distribution patterns in a small productive lake. *J. Ecol.* **68**, 75-94.
 44. Davison, W., Heaney, S.I., Talling, J.F. and Rigg, E. 1980 Seasonal transformations and movements of iron in a productive English lake with deep-water anoxia. *Schweiz. Z. Hydro.* **42**, 196-224.
 45. Heaney, S.I. and Talling, J.F. 1981 *Ceratium hirundinella* - ecology of a complex, mobile, and successful plant. *Ann. Rep. Freshw. Biol. Ass.* **48**, 27-40.
 46. Jaworski, G., Talling, J.F. and Heaney, S.I. 1981 The influence of carbon dioxide-depletion on growth and sinking rate of two planktonic diatoms in culture. *Br. Phycol. J.* **16**, 395-410.
 47. Butterwick, C., Heaney, S.I. and Talling, J.F. 1981 A comparison of eight methods for estimating the biomass and growth of planktonic algae. *Br. Phycol. J.* **17**, 69-79.
 48. Talling, J.F. 1981 The development of attenuation depth-profiling to follow the changing distribution of phytoplankton and other particulate material in a productive English lake. *Arch. Hydrobiol.* **93**, 1-20.
 49. Talling, J.F. 1981 The conditions for high concentration of biomass. In The ecology and

- utilization of African inland waters (J.J. Symoens, M. Burgis and G. Gaudet ed).
50. Talling, J.F. 1982 Utilization of solar radiation by phytoplankton. In *Trends in Photobiology* (C. Helene, M. Charlier, T. Montenay-Garestier and G. Laustriat eds), pp. 619-631. Plenum.
 51. Sutcliffe, D.W., Carrick, T.R., Heron, J., Rigg, E., Talling, J.F., Woof, C. and Lund, J.W.G. 1982 Long-term and seasonal changes-in the chemical composition of precipitation and surface waters of lakes and tarns in the English Lake District. *Freshwat. Biol.* **12**, 451-506.
 52. Gasse, F., Talling, J.F. and Kilham, P. 1983 Diatom assemblages in East Africa: classification, distribution and ecology. *Rev. Hydrobiol. Trop.* **16**, 3-34.
 53. Talling, J.F. 1984 Past and contemporary trends and attitudes in work on primary productivity. *J. Plankton Res.* **6**, 203-217.
 54. Jewson, D.H., Talling, J.F., Dring, M.J., Tilzer, M.M., Heaney, S.I. and Cunningham, C. 1984 Measurement of photosynthetically available radiation in freshwater: comparative tests of some current instruments used in studies of primary production. *J. Plankton Res.* **6**, 259-273.
 55. Talling, J.F. 1985 Inorganic carbon reserves of natural waters and ecophysiological consequences of their photosynthetic depletion; micro-algae. In *Bicarbonate utilization and transport in plants* (W.J. Lucas and J. Berry ed), pp. 403-420. American Society of Plant Physiologists.
 56. Talling, J.F. 1986 The seasonality of phytoplankton in African lakes. Developments in Hydrobiology. *Hydrobiologia* **138**, 139-160.
 57. Heaney, S.I., Smyly, W.J.P. and Talling, J.F. 1986 Interactions of physical, chemical and biological processes in depth and time within a productive English lake during summer stratification. *Int. Rev. Gesamten Hydrobiol.* **71**, 441-494.
 58. Fryer, G. and Talling, J.F. 1986 Africa: the FBA connection. *Rep. Freshwat. Biol. Ass.* **54**, 97-122.
 59. Talling, J.F. 1987 The phytoplankton of Lake Victoria East Africa. *Arch. Hydrobiol. Beih., Ergeb. Limnol.* **24**, 1-28.
 60. Wood, RB. and Talling, J.F. 1988 Chemical and algal relationships in a salinity series of Ethiopian inland waters. *Hydrobiologia* **158**, 29-67.
 61. Talling, J.F. and Heaney, S.I. 1988 Long-term changes in some English Cumbrian lakes subjected to increased nutrient inputs. In *Algae and the aquatic environment* (F.E. Round ed), pp. 1-29. Biopress, Bristol.
 62. Talling, J.F. 1988 Modern phytoplankton production in Afican lakes. In *Lacustrine petroleum source rocks* (A.J. Fleet, K. Kelts and M.R. Talbot eds). Geol. Soc. London, special Publ. No.40, pp. 27-28.
 63. Talling, J.F. 1989 Phytoplankton and primary production - chairman's overview. *Arch. Hydrobiol. Beih., Ergeb. Limnol.* **33**, 361-362.
 64. Talling, J.F. 1990 Diel and seasonal energy transfer, storage and stratification in African reservoirs and lakes. *Arch. Hydrobiol. Beih., Ergeb. Limnol.* **33**, 651-660.
 65. Neale, P.J., Talling, J.F., Heaney, S.I., Reynolds, C.S. and Lund, J.W.G. 1991 Long time series from the English Lake District: irradiance-dependent phytoplankton dynamics during the spring maximum. *Limnol. Oceanogr.* **36**, 751-760.
 66. Talling, J.F. 1992 Environmental regulation in African shallow lakes and wetlands. *Rev. Hydrobiol. Trop.* **25**, 87-144. publ. 1993
 67. Talling, J.F. 1992 Cambios ecológicas del lago tropical más grande de Africa, el Victoria (química y control de producción de fitoplancton). *Ingeniera Hidraulica en Mexico* **7**, 101-106.
 68. Talling, J.F. 1993 Comparative seasonal changes, and inter-annual variability and stability, in a 26-year record of total phytoplankton biomass in four English lake basins. *Hydrobiologia* **268**, 65-98.
 69. Golterman, H.L., Burgis, M.J., Lemoalle, J. and Talling, J.F. 1993 Ecological characteristicsof tropical fresh waters: an outline. In *Hydrology and water management in the humid tropics* (M. Bonell, M.M. Hufschmidt and J.S. Gladwell eds), pp. 367-391. Cambridge University Press.
 70. Hecky, RE., Bugenyi, F.W.B., Ochumba, P., Talling, J.F., Mugidde, R., Gophen, M. and

- Kaufinan, L. 1994 Deoxygenation of the deep water of Lake Victoria, East Africa. *Limnol. Oceanogr.* **39**, 1476-1481.
71. Talling, J.F. 1995 Phytoplankton as an increasingly compound photosynthetic system: an historical perspective. *Hydrobiologia* **315**, 9-14.
 72. Talling, J.F. 1996 Tropical limnology and the Sunda Expedition. In *Perspectives in tropical limnology* (F. Schiemer and K.T. Boland eds), pp 19-26. SPB Academic Publishing, Amsterdam.
 73. Talling, J.F. and Lemoalle, J. 1998. *Ecological dynamics of tropical inland waters*. Cambridge Univ. Press. 441p.
 74. Talling, J.F., ed. 1999. Some English lakes as diverse and active ecosystems: a factual summary and source book. *Spec. Publ. Freshwat. Biol. Ass.* 80p.
 75. Talling, J.F. 2000 Joan Eveard David nee Storey, 1920-2000 and her contributions to the wartime FBA. *Freshwat. Forum* **14**, 31-34.
 76. Talling, J.F. 2001 John H. Evans, 1927-2001: an appreciation. *The Phycologist* **60**, 7-8.
 77. Talling, J.F. 2001 Environmental controls on the functioning of shallow tropical lakes. *Hydrobiologia* **458**, 1-8.
 78. Talling, J.F. 2002 Freshwater phytoplankton- accessible, microbial, influential population dynamics. *Verh. internat. Verein. Limnol.* **28**, 7-28.
 79. Talling, J.F. and Parker, J.E. 2002 Space-time configurations of solute input and biological uptake in river systems traversing limestone uplands Yorkshire Dales, northern England. *Hydrobiologia* **487**, 153-165.
 80. Talling, J.F. and Parker, J.E. 2002 Seasonal dynamics of phytoplankton and phytobenthos, and associated chemical interactions, in a shallow upland lake Malham Tarn, northern England. *Hydrobiologia* **487**, 167-181.
 81. Talling, J.F. 2003 Phytoplankton-zooplankton seasonal timing and the 'clear- water phase' in some English lakes. *Freshwat. Biol.* **48**, 49-52.
 82. Jaworski, G.H.M., Talling, J.F. and Heaney, S.I. 2003 Potassium dependence and phytoplankton ecology: an experimental study. *Freshwat. Biol.* **48**, 833-840.
 83. Talling, J.F. 2003 The landscape ecology of Yorkshire's freshwaters. *Bull. Yorkshire Naturalists' Union* **40** Suppl., 11-17.
 84. Talling, J.F. 2004 Interrelation of diel and seasonal change, involving summer thermal stratification, weather variables and a mobile dinoflagellate in a productive English lake. *Hydrobiologia* **524**, 215-227.
 85. Talling, J.F., Spencer, H.J. and Morison, H.R. 2005 The 'shock period': phytoplankton dynamics and vertical distribution during the spring-summer transition of a stratifying English lake. *Hydrobiologia* **533**, 15-28.
 86. Talling, J.F. 2004 The development of freshwater science in Britain, and British contributions abroad, 1900-2000. *Freshwat. Forum* **22**, 22-80.
 87. Butterwick, C., Heaney, S.I. and Talling, J.F. 2005 Diversity in the influence of temperature on the growth rates of freshwater algae, and its ecological relevance. *Freshwat. Biol.* **50**, 291-300.
 88. Talling, J.F. 2005 Professor Gordon (Tony) Fogg 1919-2005. *Freshwat. Forum* **24**, 105-107.
 89. Talling, J.F. 2006 A brief history of the scientific study of tropical African inland waters. *Freshwat. Forum* **26**, 3-37.
 90. Talling, J.F. 2006 Interrelated seasonal shifts in acid-base and oxidation- reduction systems that determine chemical stratification in three dissimilar English lake basins. *Hydrobiologia* **568**, 275-286.
 91. McCulloch, I.D., Pettman, I. and Talling, J.F. 2007 Interrelated contributions to freshwater science over 78 years: a guide to published work from the Freshwater Biological Association, Institute of Freshwater Ecology and Centre for Ecology and Hydrology, 1929-2006. *Freshwat. Forum* **27**, 27-46.
 92. Talling, J.P. 2008 The developmental history of inland water science. *Freshwat. Rev.* **1**, 119-141.
 93. Talling, J.F. 2009 The Nile. History of scientific research. In *The Nile* (H.J. Dumont ed), pp. 23-34. Springer, Dordrecht.

94. Talling, J.F., Sinada, F., Taha, O.E. and Sobhy, E.M.H. 2009 Phytoplankton: composition, development and productivity. In *The Nile* (H.J. Dumont ed). pp. 431-462. Springer, Dordrecht.
95. Talling, J.F. 2009 Electrical conductance - a versatile guide in freshwater science. *Freshwat. Rev.* **2**, 65-78.
96. Talling, J.F. and Prowse, G.A. 2010 Selective recruitment and resurgence of tropical river phytoplankton: evidence from the Nile system of lakes, rivers, reservoirs and ponds. *Hydrobiologia* **637**, 187-195.
97. Talling, J.F. 2010 Potassium - a non-limiting nutrient in freshwaters? *Freshwat. Rev.* **3**, 97-104.
98. Talling, J.F. 2010 pH, the CO₂ system and freshwater science. *Freshwat. Rev.* **3**, 133-146.
99. Talling J.F. 2011. Some distinctive subject-contributions from tropical Africa to fundamental science of inland waters. *Inland Waters* **1**, 61-73.
100. Brooks, A.S., Lund, J.W.G. and Talling, J.F. 2011. Clifford Hiley Mortimer 27 February 1911 - 11 May 2010. *Biogr. Mem. Fellows Royal Soc.* **55**, 291-314.
101. Talling, J.F.. 2012. Freshwater phytoplankton ecology: the British contribution in retrospect. *Freshwat. Rev.* **5**, 1-20.
102. Talling, J.F. 2012. Temperature increase - an uncertain stimulant of algal growth and primary production in fresh waters. *Freshwat. Rev.* **5**, 73-84.
103. Talling, J.F. 2013 Systematic variation in the logarithmic ranges of freshwater phytoplankton populations. *Freshwat. Biol.* **58**, 1503-1511.
104. Talling, J.F., and Heaney, I., 2015 Novel tests of regular seasonality, types of variability, and modes of succession in lake phytoplankton. *Inland Waters* **5**, 331-338.
105. Talling, J.F., and Heaney, S.I. 2016 John Walter Guerrier Lund CBE. *Biogr. Mem. Fellows Royal Soc.* **62**, 345-358.