

## Flamingo-related publications 2011-2018

Relevant publications relating to flamingos, their biology, behaviour, ecology, conservation, health and/or management.

### 2011

Amat, J. A., Rendón, M. A., Garrido-Fernandez, J., Garrido, A., Rendón-Martos, M., & Perez-Galvez, A. (2011). Greater flamingos *Phoenicopterus roseus* use uropygial secretions as make-up. *Behavioral Ecology and Sociobiology*, 65(4), 665-673.

Anderson, M. J., Urbine, J. L., Wilson, C., & Callabro, L. (2011). Employment of web-based images and a live web cam in the examination of lateral neck-resting preferences in the American flamingo (*Phoenicopterus ruber*). *Journal of Caribbean Ornithology*, 24(2), 41-47.2012

Borghesi, F., Andreotti, A., Baccetti, N., Bianchi, N., Birke, M., Migani, F., & Dinelli, E. (2011). Flamingo feathers to monitor metal contamination of coastal wetlands: methods and initial results concerning the presence of mercury at six Mediterranean sites. *Chemistry and Ecology*, 27(sup2), 137-151.

Bouchard, L., & Anderson, M. (2011). Caribbean flamingo resting behavior and the influence of weather variables. *Journal of Ornithology*, 152(2), 307-312.

Bouchecker, A., Samraoui, B., Prodon, R., Amat, J. A., Rendon-Martos, M., Baccetti, N., Vidal i Esquerre, F., Nissardi, S., Balkiz, O., Germain, C., Boulkhssaim, M., & Bechet, A. (2011). Connectivity between the Algerian population of Greater flamingo *Phoenicopterus roseus* and those of the Mediterranean basin. *Ostrich*, 82(3), 167-174.

Descamps, S., Béchet, A., Descombes, X., Arnaud, A., & Zerubia, J. (2011). An automatic counter for aerial images of

aggregations of large birds. *Bird study*, 58(3), 302-308.

Nonga, H. E., Sandvik, M., Miles, C. O., Lie, E., Mdegela, R. H., Mwamengele, G. L., Semuguruka, W. D., & Skaare, J. U. (2011). Possible involvement of microcystins in the unexplained mass mortalities of lesser flamingo (*Phoeniconaias minor* Geoffroy) at Lake Manyara in Tanzania. *Hydrobiologia*, 678(1), 167-178.

Perdue, B. M., Gaalema, D. E., Martin, A. L., Dampier, S. M., & Maple, T. L. (2011). Factors affecting aggression in a captive flock of Chilean flamingos (*Phoenicopterus chilensis*). *Zoo Biology*, 30(1), 59-64.

Rendon, M. A., Rendon-Martos, M., Garrido, A., & Amat, J. A. (2011). Greater flamingos *Phoenicopterus roseus* are partial capital breeders. *Journal of Avian Biology*, 42(3), 210-213.

Schmaltz, L., Cézilly, F., & Béchet, A. (2011). Using multistate recapture modelling to assess age-specific bottlenecks in breeding success: a case study in the greater flamingo *Phoenicopterus roseus*. *Journal of Avian Biology*, 42(2), 178-186.

Tere, A., & Parasharya, B. M. (2011). Flamingo mortality due to collision with high tension electric wires in Gujarat, India. *Journal of Threatened Taxa*, 3(11), 2192-2201.

Zaccara, S., Crosa, G., Vanetti, I., Binelli, G., Childress, B., McCulloch, G., & Harper, D. M. (2011). Lesser flamingo, *Phoeniconaias minor*, as a nomadic species in African shallow alkaline lakes and pans: genetic structure and future perspectives. *Ostrich*, 82(2), 95-100.

Zimmermann, D., Anderson, M. D., Lane, E., Van Wilpe, E., Carulei, O., Douglass, N., Williamson, A.-L., & Kotze, A. (2011). Avian poxvirus epizootic in a breeding population of lesser flamingos (*Phoenicopterus minor*) at Kamfers Dam, Kimberley, South Africa. *Journal of Wildlife Diseases*, 47(4), 989-993.

## 2012

Bechet, A., Rendón-Martos, M., Rendón, M. Á., Amat, J. A., Johnson, A. R., & Gauthier-Clerc, M. (2012). Global economy interacts with climate change to jeopardize species conservation: the case of the greater flamingo in the Mediterranean and West Africa. *Environmental conservation*, 39(1), 1-3.

Bucher, E. H., & Curto, E. (2012). Influence of long-term climatic changes on breeding of the Chilean flamingo in Mar Chiquita, Cordoba, Argentina. *Hydrobiologia*, 697(1), 127-137.

Burgdorf-Moisuk, A., Wack, R., Ziccardi, M., Larsen, R. S., & Hopper, K. (2012). Validation of lactate measurement in American flamingo (*Phoenicopterus ruber*) plasma and correlation with duration and difficulty of capture. *Journal of Zoo and Wildlife Medicine*, 43(3), 450-458.

Geraci, J., Bechet, A., Cezilly, F., Ficheux, S., Baccetti, N., Samraoui, B., & Wattier, R. (2012). Greater flamingo colonies around the Mediterranean form a single interbreeding population and share a common history. *Journal of Avian Biology*, 43(4), 341-354.

Hurley-Sanders, J. L., Bowman, K. F., Wolfe, B. A., Nutter, F. B., Sladky, K. K., & Stoskopf, M. K. (2012). Use of thermography and fluorescein angiography in the management of a Chilean flamingo with avascular necrosis

of the wing. *Journal of Avian Medicine and Surgery*, 26(4), 255-257.

Melchor, R. N., Cardonatto, M. C., & Visconti, G. (2012). Palaeoenvironmental and palaeoecological significance of flamingo-like footprints in shallow-lacustrine rocks: an example from the Oligocene–Miocene Vinchina Formation, Argentina. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 315, 181-198.

Montalti, D., Graña Grilli, M., Maragliano, R. E., & Cassini, G. (2012). The reliability of morphometric discriminant functions in determining the sex of Chilean flamingos *Phoenicopterus chilensis*. *Current Zoology*, 58(6), 851-855.

Nielsen, A. M. W., Nielsen, S. S., King, C. E., & Bertelsen, M. F. (2012). Risk factors for development of foot lesions in captive flamingos (Phoenicopteridae). *Journal of Zoo and Wildlife Medicine*, 43(4), 744-749.

Phillips, P., & Mc Dermott, L. (2012). Using biometric measurements to predict the gender of Chilean flamingos *Phoenicopterus chilensis* at Dublin Zoo. *International Zoo Yearbook*, 46(1), 189-194.

Pradel, R., Choquet, R., & Béchet, A. (2012). Breeding experience might be a major determinant of breeding probability in long-lived species: The case of the greater flamingo. *PLoS One*, 7(12), e51016.

Rendon, M. A., Garrido, A., Guerrero, J. C., Rendon-Martos, M., & Amat, J. A. (2012). Crop size as an index of chick provisioning in the greater flamingo *Phoenicopterus roseus*. *Ibis*, 154(2), 379-388.

Samraoui, B., & Samraoui, F. (2013). An ornithological survey of Algerian wetlands: Important Bird Areas, Ramsar sites and threatened species. *Wildfowl*, 58(58), 71-96.

Sanz-Aguilar, A., Béchet, A., Germain, C., Johnson, A. R., & Pradel, R. (2012). To leave or not to leave: Survival trade-offs between different migratory strategies in the greater flamingo. *Journal of Animal Ecology*, 81(6), 1171-1182.

Scott, J. J., Renaut, R. W., & Owen, R. B. (2012). Impacts of flamingos on saline lake margin and shallow lacustrine sediments in the Kenya Rift Valley. *Sedimentary Geology*, 277-278(0), 32-51.

Williams, S. A., & Anderson, M. J. (2012). Pair bonding and lateral neck-resting preferences in captive Caribbean flamingos (*Phoenicopterus ruber*). *Laterality*, 17(5), 565-582.

### 2013

Benato, L., Rice, C. J., Wernery, U., McKeown, S., & Bailey, T. A. (2013). Serum concentrations of vitamins and trace elements in clinically healthy greater flamingos (*Phoenicopterus roseus*) and lesser flamingos (*Phoeniconaias minor*). *Journal of Zoo and Wildlife Medicine*, 44(2), 245-250.

Bouaguel, L., Saheb, M., Bensaci, E., Bougoudjil, S., Bouslama, Z., & Houhamdi, M. (2013). Status and diurnal behavior of the greater flamingo *Phoenicopterus roseus* in Algerian eastern high plains. *Annals of Biological Research*, 4(8), 232-237.

Cruz, N. N., Barisón, C., Romano, M., Arengo, F., Derlindati, E. J., & Barberis, I. (2013). A new record of James's flamingo (*Phoenicoparrus jamesi*) from Laguna Melincué, a lowland wetland in East-Central Argentina. *The Wilson Journal of Ornithology*, 125(1), 217-221.

Hill, L. M., Bowerman, W. W., Roos, J. C., Bridges, W. C., & Anderson, M. (2013). Effects of water quality changes on phytoplankton and lesser flamingo

*Phoeniconaias minor* populations at Kamfers Dam, a saline wetland near Kimberley, South Africa. *African Journal of Aquatic Science*, 38(3), 287-294.

Hinton, M. G., Bendelow, A., Lantz, S., Wey, T. M., Schoen, L., Brockett, R., & Karubian, J. (2013). Patterns of aggression among captive American flamingos (*Phoenicopterus ruber*). *Zoo Biology*, 32(4), 445-453.

Hughes, A. L., Raynes, A., Driscoll, C., & Babler, J. (2013). Behavioral correlates of post-breeding weight change in a captive flock of American flamingos (*Phoenicopterus ruber ruber*). *Zoo Biology*, 32(2), 204-209.

Kaggwa, M., Gruber, M., Oduor, S., & Schagerl, M. (2013). A detailed time series assessment of the diet of lesser flamingos: further explanation for their itinerant behaviour. *Hydrobiologia*, 710(1), 83-93.

Metcalf, J. S., Banack, S. A., Kotut, K., Krienitz, L., & Codd, G. A. (2013). Amino acid neurotoxins in feathers of the lesser flamingo, *Phoeniconaias minor*. *Chemosphere*, 90(2), 835-839.

Moreno-Opo, R., Sidaty, Z. O., Baldó, J. M., García, F., Daf, D. O. S., & González, L. M. (2013). A breeding colony of the Near Threatened lesser flamingo *Phoeniconaias minor* in western Africa: a conservation story of threats and land management. *Bird Conservation International*, 23(4), 426-436.

Peluso, A. I., Royer, E. A., Wall, M. J., & Anderson, M. J. (2013). The relationship between environmental factors and flamingo aggression examined via internet resources. *Avian Biology Research*, 6(3), 215-220.

Tebbs, E. J., Remedios, J. J., Avery, S. T., & Harper, D. M. (2013). Remote sensing the hydrological variability of Tanzania's Lake

Natron, a vital lesser flamingo breeding site under threat. *Ecohydrology & Hydrobiology*, 13(2), 148-158.

Tebbs, E. J., Remedios, J. J., & Harper, D. M. (2013). Remote sensing of chlorophyll-a as a measure of cyanobacterial biomass in Lake Bogoria, a hypertrophic, saline-alkaline, flamingo lake, using Landsat ETM+. *Remote Sensing of Environment*, 135, 92-106.

Touati, L., & Samraoui, B. (2013). Diversity and distribution of avian lice on greater flamingo chicks (*Phoenicopterus roseus*) in Algeria. *Avian Biology Research*, 6(4), 261-268.

Wyss, F., Wenker, C., Hoby, S., Gardelli, B., Studer-Thiersch, A., von Houwald, F., Schumacher, V., Clauss, M., Doherr, M. G., & Häfeli, W. (2013). Factors influencing the onset and progression of pododermatitis in captive flamingos (Phoenicopteridae). *Schweizer Archiv für Tierheilkunde*, 155(9), 497-503.

## 2014

Bernardon, B., & Valsecchi, J. (2014). First record of the Andean Flamingo in the Brazilian Amazon. *Revista Brasileira de Ornitologia-Brazilian Journal of Ornithology*, 22(3), 285-287.

Cooper, J. E., Deacon, A. E., & Nyariki, T. (2014). Post-mortem examination and sampling of African flamingos (Phoenicopteridae) under field conditions. *Ostrich*, 85(1), 75-83.

Derlindati, E. J., Romano, M. C., Cruz, N. N., Barisón, C., Arengo, F., & Barberis, I. M. (2014). Seasonal activity patterns and abundance of Andean flamingo (*Phoenicoparrus andinus*) at two contrasting wetlands in Argentina. *Ornitologia Neotropical*, 25, 317-331.

Deville, A.-S., Labaude, S., Robin, J.-P., Béchet, A., Gauthier-Clerc, M., Porter, W., Fitzpatrick, M., Mathewson, P., & Grémillet, D. (2014). Impacts of extreme climatic events on the energetics of long-lived vertebrates: the case of the greater flamingo facing cold spells in the Camargue. *Journal of Experimental Biology*, 217(20), 3700-3707.

Dias, R. A., & Cardozo, J. B. (2014). First record of the puna flamingo *Phoenicoparrus jamesi* (Sclater, 1886) (Aves: Phoenicopteridae) for the Atlantic coast of South America. *Check List*, 10(5), 1150-1151.

Frias-Soler, R., Tindle, E., Lopez, G. E., Blomberg, S., Studer-Thiersch, A., Wink, M., & Tindle, R. W. (2014). Genetic and phenotypic evidence supports evolutionary divergence of the American flamingo (*Phoenicopterus ruber*) population in the Galápagos Islands. *Waterbirds*, 37(4), 349-468.

Hughes, A. L., & Driscoll, C. (2014). Being in the thick of things: context-dependent network centrality in a captive flock of American flamingos. *Journal of Ethology*, 32(2), 83-90.

Kihwele, E. S., Lugomela, C., & Howell, K. M. (2014). Temporal changes in the lesser flamingos' population (*Phoenicopterus minor*) in relation to phytoplankton abundance in Lake Manyara, Tanzania. *Open Journal of Ecology*, 43809, 17 pages ([http://file.scirp.org/Html/7-1380192\\_43809.htm](http://file.scirp.org/Html/7-1380192_43809.htm)).

King, C. E. (2014). Flamingos in captivity: thoughts on how and why. In M. Lamont (Ed.), *Conservation through aviculture ISBBC 2007: Proceedings of the IV International Symposium on Breeding Birds in Captivity* (pp. 232-251). Surrey, Canada: Hancock House Publishers.

King, C. E., & Bračko, A. (2014). Nineteen years of management for Phoenicopteriformes in European Association of Zoos and Aquaria institutions: The Fabulous Flamingo Surveys and strategies to increase reproduction in captivity. *International Zoo Yearbook*, 48(1), 184-198.

Klausen, B. (2014). A mixed-species exhibit for African water birds (including pelicans, flamingos, spoonbills and storks) at Odense Zoo, Denmark: breeding success, animal welfare and education. *International Zoo Yearbook*, 48(1), 61-68

Kumssa, T., & Bekele, A. (2014). Feeding ecology of lesser flamingos (*Phoeniconaias minor*) in Abijata-Shalla Lakes National Park (ASLNP) with special reference to lakes Abijata and Chitu, Ethiopia. *Asian Journal of Biological Sciences*, 7(2), 57-65.

Kumssa, T., & Bekele, A. (2014). Current population status and activity pattern of lesser flamingos (*Phoeniconaias minor*) and greater flamingo (*Phoenicopterus roseus*) in Abijata-Shalla Lakes National Park (ASLNP), Ethiopia. *International Journal of Biodiversity*, Volume 2014, Article ID 295362, 1-8.

Mayr, G. (2014). The Eocene Juncitarsus – its phylogenetic position and significance for the evolution and higher-level affinities of flamingos and grebes. *Comptes Rendus Palevol*, 13(1), 9-18.

Mesbaha, A., Baaziza, N. B., Baaziza, N., Boukhssaima, M., Bouzida, A., Ouldjaouia, A., Bouchekera, A., Nedjaha, R., Touatia, L., & Samraouia, F. (2014). Greater flamingo *Phoenicopterus roseus* breeding attempts on the Hauts Plateaux and in the Algerian Sahara, in 2011–13. *Bulletin of the African Bird Club*, 21, 187-192.

Peduzzi, P., Gruber, M., Gruber, M., & Schagerl, M. (2014). The virus's tooth:

cyanophages affect an African flamingo population in a bottom-up cascade. *The ISME journal*, 8(6), 1346.

Pelusuo, A. I., & Anderson, M. J. (2014). The role of lateralization in feeding behavior and scratching preference in relation to social behavior in captive Caribbean flamingos (*Phoenicopterus ruber*). *Animal Behavior and Cognition*, 1(1), 51-65.

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Royer, E. A., & Anderson, M. J. (2014). Evidence of a dominance hierarchy in captive Caribbean flamingos and its relation to pair bonding and physiological measures of health. *Behavioural Processes*, 105(0), 60-70.

Straubinger-Gansberger, N., Gruber, M., Kaggwa, M. N., Lawton, L., Oduor, S. O., & Schagerl, M. (2014). Sudden flamingo deaths in Kenyan Rift Valley lakes. *Wildlife Biology*, 20(3), 185-189.

Suedmeyer, W. K., & Trupkiewicz, J. G. (2014). Fatal envenomation of a Chilean flamingo (*Phoenicopterus chilensis*) from eastern yellow jacket wasps (*Vespula maculifrons*). *Journal of Avian Medicine and Surgery*, 28(4), 330-335.

Thurber, M. I., Gamble, K. C., Krebs, B., & Goldberg, T. L. (2014). Molecular detection of Plasmodium in free-ranging birds and captive flamingos (*Phoenicopterus chilensis*) in Chicago. *Journal of Zoo and Wildlife Medicine*, 45(4), 749-754.

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flamingo *Phoenicopterus ruber* in the Galapagos Islands. *Galapagos Research*, 68, 15-27.

Tobar, C. N., Rau, J. R., Fuentes, N., Gantz, A., Suazo, C. G., Cursach, J. A., Santibañez, A., & Pérez-Schultheiss, J. (2014). Diet of the Chilean flamingo *Phoenicopterus chilensis* (Phoenicopteriformes: Phoenicopteridae) in a coastal wetland in Chiloé, southern Chile. *Revista chilena de historia natural*, 87, 1-7.

Torres, C. R., Ogawa, L. M., Gillingham, M. A. F., Ferrari, B., & Van Tuinen, M. (2014). A multi-locus inference of the evolutionary diversification of extant flamingos (Phoenicopteridae). *BMC Evolutionary Biology*, 14(1), 36.

Wyss, F., Wenker, C., Hoby, S., von Houwald, F., Schumacher, V., Doherr, M. G., & Robert, N. (2014). The effect of fine granular sand on pododermatitis in captive greater flamingos (*Phoenicopterus roseus*). *Animal Welfare*, 23(1), 57-61.

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Yohannes, E., Arnaud, A., & Béchet, A. (2014). Tracking variations in wetland use by breeding flamingos using stable isotope signatures of feather and blood. *Estuarine, Coastal and Shelf Science*, 136, 11-18.

## 2015

Balkız, Ö., Onmuş, O., Sıki, M., Döndürenc, Ö., Gül, O., Arnaud, A., Germain, C., İsfendiyaroğlu, S., Özbek, M., & Çağlayan, E. (2015). Turkey as a crossroad for greater flamingos *Phoenicopterus roseus*:

evidence from population trends and ring-resightings (Aves: Phoenicopteridae). *Zoology in the Middle East*, 61(3), 201-214.

Delk, K. W., Wack, R. F., Burgdorf-Moisuk, A., Kass, P. H., & Cray, C. (2015). Acute phase protein and electrophoresis protein fraction values for captive American flamingos (*Phoenicopterus ruber*). *Journal of Zoo and Wildlife Medicine*, 46(4), 929-933.

Henriksen, M. V. J., Hangstrup, S., Work, F., Krogsgaard, M. K., Groom, G. B., & Fox, A. D. (2015). Flock distributions of lesser flamingos *Phoeniconaias minor* as potential responses to food abundance-predation risk trade-offs at Kamfers Dam, South Africa. *Wildfowl*, 65(65), 3-18.

Hughes, A. L. (2015). Stability of social behavior in captive American flamingos (*Phoenicopterus ruber*): A quantitative case study. *Zoo Biology*, 34(4), 305-313

Kight, C. R. (2015). *Flamingo*. London, UK: Reaktion Books.

Meekins, J. M., Stuckey, J. A., Carpenter, J. W., Armbrust, L., Higbie, C., & Rankin, A. J. (2015). Ophthalmic diagnostic tests and ocular findings in a flock of captive American flamingos (*Phoenicopterus ruber ruber*). *Journal of Avian Medicine and Surgery*, 29(2), 95-105.

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Torres, C. R., De Pietri, V. L., Louchart, A., & Van Tuinen, M. (2015). New cranial material of the earliest filter feeding flamingo *Harrisonavis croizeti* (Aves, Phoenicopteridae) informs the evolution of the highly specialized filter feeding apparatus. *Organisms Diversity & Evolution, 15*(3), 609-618.

Yim, K. J., Kwon, J., Cha, I.-T., Oh, K.-S., Song, H. S., Lee, H.-W., Rhee, J.-K., Song, E.-J., Rho, J. R., & Seo, M. L. (2015). Occurrence of viable, red-pigmented haloarchaea in the plumage of captive flamingos. *Scientific Reports, 5*, 16425.

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## 2016

Freeman, H. D., Valuska, A. J., Taylor, R. R., Ferrie, G. M., Grand, A. P., & Leighty, K. A. (2016). Plumage variation and social partner choice in the greater flamingo (*Phoenicopterus roseus*). *Zoo Biology, 35*(5), 409-414.

Frumkin, N. B., Wey, T. W., Exnicios, M., Benham, C., Hinton, M. G., Lantz, S.,

Atherton, C., Forde, D., & Karubian, J. (2016). Inter-annual patterns of aggression and pair bonding in captive American flamingos (*Phoenicopterus ruber*). *Zoo Biology, 35*(2), 111-119.

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Krienitz, L., Mähner, B., & Schagerl, M. (2016). Lesser flamingo as a central element of the East African avifauna. In M. Schagerl (Ed.), *Soda lakes of East Africa* (pp. 259-284). Cham, Switzerland: Springer International Publishing.

Perrot, C., Béchet, A., Hanzen, C., Arnaud, A., Pradel, R., & Cézilly, F. (2016). Sexual display complexity varies non-linearly with age and predicts breeding status in greater flamingos. *Scientific Reports, 6*, 36242.

Rose, P. E., Brereton, J. E., & Gardner, L. (2016). Developing flamingo husbandry practices through workshop communication. *Journal of Zoo and Aquarium Research, 4*(2), 115-121.

## 2017

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Chang, Y.-H., & Ting, L. H. (2017). Mechanical evidence that flamingos can support their body on one leg with little active muscular force. *Biology Letters, 13*(5), 20160948.

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Núñez, V., Drago, F. B., Digiani, M. C., & Lunaschi, L. I. (2017). Nematode parasites of the Chilean flamingo, *Phoenicopterus chilensis* (Phoenicopteridae) from Central Argentina, with a description of a new species of *Tetrameres* (Tetrameridae). *Acta Parasitologica*, 62(2), 422-431.

Rose, P. E., & Croft, D. P. (2017). Social bonds in a flock bird. Species differences and seasonality in social structure in captive flamingo flocks over a 12-month period. *Applied Animal Behaviour Science*, 193, 87-97.

Sandri, C., Vallarin, V., Sammarini, C., Regaiolli, B., Piccirillo, A., & Spiezio, C. (2017). How to be a great dad: parental care in a flock of greater flamingo (*Phoenicopterus roseus*). *PeerJ*, 5, e3404.

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Scarton, F. (2017). Environmental characteristics of shallow bottoms used by greater flamingo *Phoenicopterus roseus* in a northern Adriatic lagoon. *Acrocephalus*, 38(174-175), 161-169.

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## 2018

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