Janet Bradford-Grieve

11 February 1940 - 16 August 2025

Fig. 1. NIWA archives, with permission

It is difficult to imagine a copepodologist working on free-living copepods today who has not been influenced by the work of the late **Janet Mary Bradford-Grieve** (née Grieve, Fig. 1). Janet's copepod-related research extends beyond species descriptions, genus- and family-level revisions, ontogenetic development, and recognition of morphological patterns. She thought about phylogenetic relationships and the evolutionary history of the Copepoda, including the colonization of the pelagic realm. In recent years she provided the critical taxonomic expertise that anchored molecular genetic studies. But she also worked on copepods (and other organisms) in an ecosystem context. She once described her career as having two threads: "biological oceanography (ecosystem functioning) and systematics and taxonomy of calanoid copepod Crustacea."[1] While members of the World Association of Copepodologists may think of her primarily for the latter subject area, her work in the former was influential as well. And there was actually a third thread: integrating science into societal decision-making.

To touch briefly on each thread:

Regarding **systematics and taxonomy**, Janet's five syntheses in *The Marine Fauna of New Zealand* series[2-6] provide essential taxonomic references for anyone working on the calanoid copepods of the central and south Pacific. They, plus other regional guides, including the *Copepoda of the South Atlantic Zooplankton*[7] (with colleagues, *cf.* the bibliography), copepods in the Benguela Current[8], and the copepod fauna of the Ross Sea[9] are not only key sources for those regions, but also highly informative references for those interested in similar taxa elsewhere. These syntheses build, in many cases, on the numerous original taxonomic descriptions that Janet published. According to the *World of Copepods* website (https://www.marinespecies.org/copepoda/), Janet described 92 species and genera of

copepods, mainly calanoids but also 17 species of siphonostomatoids and 2 species of harpacticoids. She did not stop with species descriptions, having revised and redefined multiple genera[10,11] and was among the first to recognize members of the superfamily Clausocalanoidea as sharing brush-like chemosensory setae on their maxillae and usually maxillipeds[11], which subsequently became known as the 'Bradfordian families.' She and colleagues revised the Calanidae[10], Clausocalanoidea[12], basal calanoid copepod families[13], Phaennidae[11], Scolecitrichidae[11], and the Megacalanidae[14]. In the latter publication alone, she and colleagues described 11 new species of megacalanids, from deep sea collections. She created an online key to the families of calanoids[15] as well as *Digital Keys to Calanoid Copepods* [16] that include families, genera for the 'Bradfordian' and some other families, and species of the Centropagidae, Calanidae, and Megacalanidae. Janet wrote or contributed to 6 chapters treating different taxonomic groups for the *New Zealand Inventory of Biodiversity*[17-22].

The evolutionary history of copepods was also of great interest to Janet, and she published important contributions inferring phylogenies for the Calanoida and interpreting likely habitat transitions and patterns of character evolution across the order. She wrote two very thoughtful, if speculative, papers on possible colonization pathways for calanoid families[23,24], with one focusing on colonization of the pelagic environment and the other on the benthic boundary layer (shallow water and deep sea). The ideas set forth drew on her unparalleled breadth of knowledge of the diversity and morphology of copepod species across the 43 calanoid families (and putative adaptations), and her enduring interest in benthopelagic taxa, with publications on near-bottom species spanning 52 years[25,26] (14 taxonomic publications). She and colleagues explored phylogenetic relationships[27], with a full re-examination of the monophyly and composition of calanoid superfamilies as well as evolutionary trends in the group (e.g., in female genitalia, paedomorphosis). She also was an important collaborator on molecular efforts to validate her phylogenetic inferences based on morphology[28]. She viewed these broad-scale syntheses as important to her work as a systematist, building on strictly taxonomic species descriptions.

In an **ecosystem context**, Janet helped illuminate pelagic ecosystem processes in the waters off New Zealand and in the Southern Ocean. At an early point in her career, she reviewed the role of sea ice algae and associated fauna in the Antarctic ecosystem[29]. She led several papers addressing phytoplankton standing stocks and productivity[30-34], including the effects of warm-core eddies on ocean productivity[35] and zooplankton distributions[36]. Her work defined the contribution the subantarctic copepod *Neocalanus tonsus* (Fig. 2) makes to carbon export in the Southern Ocean[37]. She implemented Ecopath-Ecosim trophic models for a multi-compartment food web in subantarctic waters[38] and inferred surprisingly high ecological transfer efficiencies in this ecosystem. She contributed to a similar effort for the Ross Sea in relation to the consequences of fishing for Antarctic toothfish and their predators[39,40]. A series of papers

Fig. 2. Neocalanus tonsus CV (MDO)

analyzed food web structure and particles fluxes in the Subtropical Front region east of New Zealand, and found elevated organic fluxes in the frontal region relative to the Subtropical and Subantarctic Provinces on either side[30,41,42]. In addition, she contributed to studies of hoki (blue grenadier) recruitment[43] and diets, as well as to the population dynamics[44] of red-billed gulls in New Zealand waters.

At the **interface of science and society**, Janet was an engaged and effective voice. She served on the *Royal Society of New Zealand ad hoc Committee on Marine Resources, their Management and Protection* and also helped assess environmental risks to hoki fisheries[45]. Earlier on, she addressed the effects of a thermal power station on the plankton[46]. Janet was concerned about the paucity of women scientists in New Zealand and raised the visibility of this issue[47]. She also sounded a clarion call regarding the importance of taxonomy, yet decline of taxonomic expertise, both in testimony in the U.K.[1] and in print[48].

Janet was a Kiwi by birth and upbringing. She attended university in New Zealand, earning a BSc (honors) in 1962 from the *University of Canterbury*, and her PhD in Biological Oceanography from the same institution in 1965, mentored by George A. Knox. She was hired immediately at the *New Zealand Oceanographic Institute* (NZOI), where she spent four years. In 1970 she began a stint overseas in the U.S. at the *Smithsonian Institution*. There she worked on nicothoid copepods of antarctic and subantarctic waters as a collaborator in the Department of Invertebrate Zoology, in association with the renowned (but reserved) carcinologist Thomas E. Bowman. For a time she was Acting Supervisor of the *Smithsonian Oceanographic Sorting Center* staff. In 1973 she returned to New Zealand and the NZOI, where she was employed throughout the rest of her career, even as the institution changed to the *National Institute of Water and Atmospheric Research* (NIWA) in 1992, and more recently to *Earth Sciences New Zealand* in 2025.

It may be difficult for younger scientists today to imagine life and research in New Zealand at a time when it was a small, isolated country in the far-flung Antipodes, far from North American, European, Asian, and other centers of research. Prior to the internet era, communications depended largely on postal service, with attendant delays. Research equipment and supplies

that were readily available in North America, for example, could face lengthy waits - and added expense - to acquire in NZ. At times considerable resourcefulness was needed to conduct research. We were interested to learn Janet's solution to measuring the salinity of the samples that accompanied her copepod collections during her PhD research off Kaikoura, N.Z. At the time, salinity was measured by titration of chloride ions with a solution of silver nitrate. However, this titration required a rather intricate and arcane piece of glassware known as a Knudsen burette. Finding none available, Janet proceeded to learn glassblowing in order to fabricate her own! This Kiwi can-do spirit infused much of Janet's approach to problem-solving.

Janet assumed leadership roles at NZOI, leading research cruises (as the institution's first female cruise leader in 1967), the Biology Section, the Marine and Freshwater Division, and serving in other capacities. Her influential scientific contributions, plus leadership abilities, led to a series of honors. Ten taxa have been named for Janet, seven in the Copepoda (2 genera, 5 species), one ostracod, and 2 decapod species (see patronyms and ref (49)). She received the *New Zealand Commemoration Medal* in 1990. She was elected President of the *New Zealand Association of Scientists* in 1998. Election as *Fellow of the Royal Society of New Zealand* came in 2003. This was followed in 2007 by her recognition as *Officer of the New Zealand Order of Merit* (NZOM). The NZOM was established by royal warrant on 30 May 1996 by Elizabeth II, Queen of New Zealand (yes), "for those persons who in any field of endeavour, have rendered meritorious service to the Crown and nation or who have become distinguished by their eminence, talents, contributions or other merits." Janet was, of course elected *President of the World Association of Copepologists* for 2008-2011 and she served us well. We would characterize her leadership style as focused and goal-oriented, yet collaborative and respectful. She gets things done.

Fig. 3. Pre-Conference Training Workshop, Scripps Institution of Oceanography, 10-14 July 2017

Although Janet did not have a formal pedagogic role, she served in some years as honorary Lecturer in the Zoology Department of the Victoria University of Wellington. Of course, she presented seminars and lectures in many international settings, including as a tutor for the pre-conference taxonomy workshop held at Scripps in La Jolla, California, in 2017 prior to the *13th International Conference on Copepoda (ICOC)* in Los Angeles (Fig. 3). Janet was a key mentor to many researchers, visitors, and students, who sought her keen eye when it came to identifications of copepods and her advice on matters of science.

What was it like to work and interact with Janet? We both have our own impressions to share.

Mine (MDO) began with my experience working as a postdoc with Janet at NZOI. Janet's independence of thinking was immediately apparent; she was an original scientist who readily moved into new territory. She was also an autodidact, propelling herself into that new territory via careful scholarship and resolve. This goes hand-in-hand with her nature as a bibliophile. Despite (or perhaps because of) living in a relatively remote part of the world, she had a remarkable command of the scientific literature and the antecedents to nearly every study. She was also a synthesizer, who could simultaneously plunge deeply into the intricacies of a taxonomically important seta, yet step back to assemble patterns of relationships or inferred evolutionary radiations into a coherent whole. She was always energetic in her pursuits, scientific and otherwise. Her no-nonsense approach led her to drive projects to completion. Would that the rest of us could meet the same standards. I have often described my postdoctoral year in New Zealand, sponsored by Janet and by John Jillett of the University of Otago, as among my best single years in science.

And I (EG) first met Janet as a late-stage graduate student at the Scripps Institution of Oceanography/University of California San Diego. I was conducting a large-scale population genetic study of *Eucalanus hyalinus* as part of my doctoral work, and I had detected a closely-related but undescribed species that co-occurred in subtropical waters. I reached out to Janet to ask if she would mentor me and collaborate to formally describe this new species. Janet generously welcomed me to work at NIWA and stay at her home in Wellington for the better part of a month, while she taught me how to *really look* for morphological variation, trust my gut about which characters might be useful for discriminating populations, and how to formalize these observations into a proper species description[50]. At this point in her career (early 2000s), Janet was a world-renowned copepodologist and systematist of calanoids, but she also had very wide-ranging scientific interests and was working collaboratively on other research related to primary production and biogeochemistry, pelagic food web structure, and plankton trophic studies in waters around New Zealand.

While working together on my *Eucalanus* specimens, I would ask questions about what types of characters I should be systematically examining and making measurements on. How should I best dissect, mount and position these specimens to examine them properly? Ever patient, Janet seemed to enjoy having to reflect on and articulate her process for working on a new taxonomic problem, as by this point in her career it had become quite hard-wired and deeply familiar to her. Because she was a researcher, rather than an academic, she was less accustomed to teaching young people, and I think she really enjoyed the process of conveying all that she knew about working with calanoids. In the evenings, I recall dinner table conversations in which she asked me to clarify newer analytical approaches to phylogenetic inference, how genetic characters were aligned and interpreted across a range of taxa, and discussions on how to properly interpret the wealth of genetic information that was increasingly becoming available to test taxonomic hypotheses. She was deeply interested in ways to better formalize traditional systematic observations, eventually leading to her 2010 cladistic analysis of the calanoids[51] (and related talk at the 11th ICOC in Mérida, Mexico in 2011). I admired her curiosity about emerging methods and data types. As the days passed, and we got closer to a set of useful observations on the morphometric differences between *E. spinifer* and *E. hyalinus*, I also appreciated her ability to push the project forward and not get too bogged down in tangential details. I picked up the idea of a 'once over lightly' approach to assess what was interesting and useful, followed by a more in-depth assessment on only the characters that showed initial promise. In short, she also taught me how to be efficient with my time and more focused in tackling the work.

Janet was a very important role model for me, as an older female scientist who was deeply engaged in her scientific work. My sense was that she led a very intentional life, with careful consideration of where to invest her work, energy, and time. She remained enormously productive, even as an emerita researcher, and continued to reach out to colleagues and complete important contributions late in her career. She also lived with a rich community of colleagues and friends around her, and with close contact to two sisters who lived in close proximity. Janet was inspirational as a scientist and as a person, and I will miss her presence and contributions in our community.

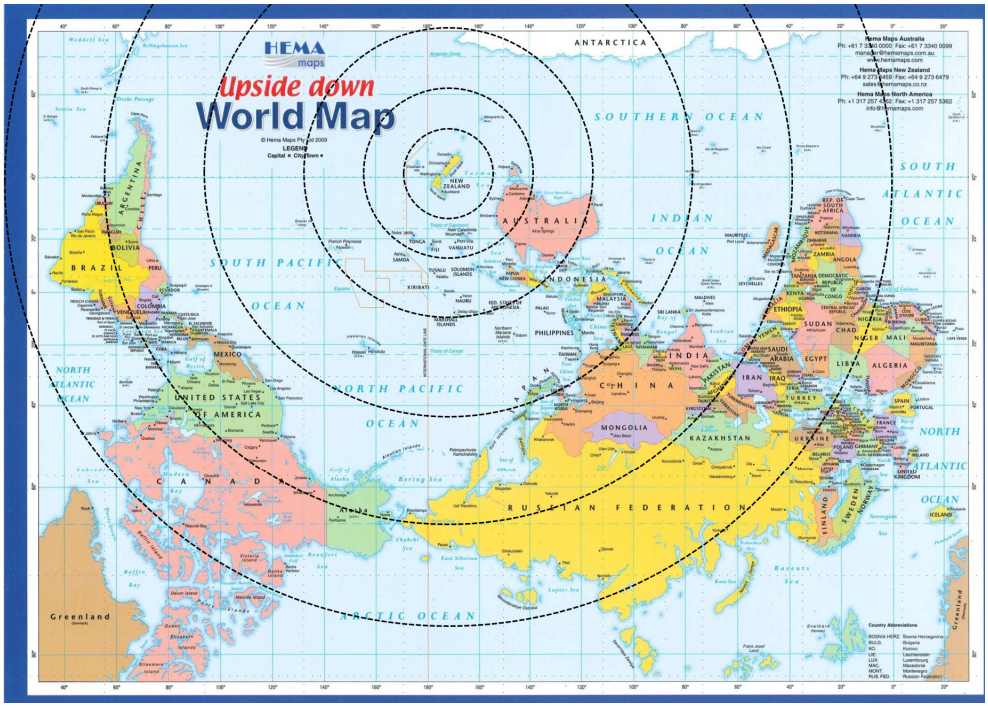

Fig. 4. HEMA maps. Permission request pending

We both extend our deepest thanks to Janet for all she contributed to Science (Fig. 4), to our own careers and lives, and to society writ large.

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We encourage readers to consult the more authoritative obituary[49] currently under evaluation for publication in the *New Zealand Science Review*, authored by Janet's NZ colleagues and members of the editorial board.

[1] Memorandum submitted by Dr. Janet Bradford-Grieve to the UK House of Lords Select Committee on Science and Technology, 30 January 2007. https://publications.parliament.uk/pa/ld200708/ldselect/ldsctech/162/162we07.htm

[49] Obituary: Dr. Janet Grieve. The Editors, *New Zealand Science Review*. (in review)

Janet M. Bradford-Grieve publications
(in reverse chronological order)

Janet's PhD dissertation (1966) was published under the surname Grieve. In most of the ensuing 25 years she published under Bradford, and subsequently under Bradford-Grieve, although she was commonly referred to as Janet Grieve in person.

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Patronyms

Bradfordiella Andronov, 2007 (Copepoda, Calanoida)

Cymbasoma janetae Mageed, 2010 (Copepoda, Monstrilloida)

Dactylopodella janetae Hicks, 1989 (Copepoda, Harpacticoida)

Grievella Ferrari & Markhaseva, 2000 (Copepoda, Calanoida)

Metavargula bradfordae Kornicker, 1979 (Ostracoda)

Monstrilla janetgrieveae Suárez-Morales & McKinnon, 2025 (Copepoda, Monstrilloida)

Munida grieveae Vereshchaka, 2005 (Decapoda)

Sphaeronella bradfordae Boxshall & Lincoln, 1983 (Copepoda, Siphonostomatoida)

Stephos grieveae Kršinić, 2015 (Copepoda, Calanoida)

Trichopeltarion janetae Ahyong, 2008 (Decapoda)