

Pertti Uotila

Arvo Jaakko Juhani Jalas (1920-1999)



Professor Jaakko Jalas, one of the founding members of OPTIMA, and Chairman of the Committee for Mapping the Flora of Europe, died suddenly on 1 December 1999.

Jaakko Jalas was born near the town of Hämeenlinna, in southern Finland, on 7 May 1920, but moved to Helsinki at the age of 10. Jalas started his studies in biology, with a major in botany, at the University of Helsinki in 1938. Even though his long military service during the Second World War prolonged Jalas' studies, he defended his extensive thesis "Zur Kausalanalyse der Verbreitung einiger nordischen Os- und Sandpflanzen" in 1950. His entire career was spent in the Department of Botany of the University of Helsinki, first as an assistant, later as Associate

Professor, as Professor Extra Ordinem and, finally (1976-1984), as Professor of Plant Systematics, Morphology and Phytogeography. In 1978-1983 he was the director of the Department of Botany, the Botanical Garden and the Botanical Museum.

Jalas continued his research on the taxonomy of the plant groups he had dealt with in his thesis: *Anthyllis*, *Lotus* and *Thymus* in particular. His taxonomic interests also include *Hylotelephium*, the perennial species of *Cerastium*, *Euphrasia*, *Rumex*, and *Melampyrum pratense*, among others. *Thymus* was especially close to his heart, and Jalas published numerous studies on the cytology and taxonomy of this difficult genus, e.g. with descriptions of many new taxa. He became a leading specialist on *Thymus* and wrote accounts of it for *Flora Europaea*, *Flora of Turkey* and *Flora Iranica*, and helped colleagues studying the genus for other flora projects and revisions with his determinations and advice.

Some of Jalas' research subjects were neglected by other Finnish botanists of that period (e.g. weeds and cultivated plants). He introduced in Finland new branches of botany, such as experimental taxonomy and biosystematics. Jalas wrote many of his early papers in German, but later, and especially in regard to taxonomy and chorology, he used English, and in a sense, opened the window for Finnish botanists to the botanical traditions in English-speaking Europe.

When Flora Europaea was launched in the late 1950s it was quite natural that Jalas became the regional adviser for Finland in the flora organization. In addition to *Thymus*, he wrote the account of the perennial *Cerastiums* for Flora Europaea. In 1965, at a Flora Europaea meeting in Aarhus, a mapping project for European vascular plants (Atlas Florae Europaeae) was started. The esteem felt for Jalas, in addition to Finland's neutral position in post-war Europe, was one reason why the secretariat of the project was offered to Finland. Subsequently, he acted as the chairman of the Committee for Mapping the Flora of Europe, and, together with Dr. Juha Suominen, compiled the Atlas volumes from the contributions by regional collaborators. Jalas' special responsibility was to write the text for the Atlas, which he did very meticulously. Volume after volume, Atlas Florae Europaeae supplemented Flora Europaea more and more and became an important source of taxonomic literature. Jalas' high esteem in Finland helped guarantee the funds to cover the costs of the secretariat throughout these years. Furthermore, his diplomacy and the ability to make the right compromises helped him to steadily advance the mapping despite severe difficulties that every now and then took place in individual countries. During his retirement Jalas devoted most of his time to Atlas Florae Europaeae, leaving his other botanical interests in the background. He was happy to reach his goal, a complete mapping of the species of the first volume of Flora Europaea, when the 12th volume of Atlas Florae Europaeae was published in summer 1999.

In the 1960s and 1970s in particular, Jalas took part in numerous botanical congresses dealing with the European Flora. Up until the 1990s he toured various European countries almost every summer, and collected selectively, but all in all, a considerable number of specimens, especially of critical groups and groups under preparation for Atlas Florae Europaeae. His herbarium material is deposited at H. In addition to great activity in many Finnish scientific societies Professor Jaakko Jalas was a member of the international board of OPTIMA in 1974-1988, a council member of the International Association of Plant Taxonomy in 1981-1997, he was invited as one of the vice presidents to the XII Botanical Congress in Leningrad in 1975, and the Bulgarian Botanical Society invited him to be its foreign honorary member in 1993.

About half of the almost 200 publications by Jaakko Jalas are written in Finnish and many-sidedly deal with the Finnish and Scandinavian flora: from floristics and vegetation science to systematics and plant geography; from indigenous to alien and cultivated plants. His most important work in this area is "Suuri kasvukirja", a biological flora of Finland, which was edited and largely written by him. It has been published in three volumes (1958, 1965, 1980) with a total of 2,688 pages. Many of his research papers were published together with his numerous students. Jalas was an excellent teacher, and as a trainer of taxonomists he played an essential role in Finland for 30 years.

Jaakko Jalas and his scientific career are more deeply dealt with by Teuvo Ahti in *Taxon* 49: 321-323 (2000).

A selection of publications of Jaakko Jalas

The publications in Finnish, and some floristic publications concerning only the Nordic countries have been excluded. The publications have been grouped, according to the topics, into those dealing with (a) Atlas Florae Europaeae, (b) *Thymus*, (c) taxonomy, caryology etc. (excl. *Thymus*), and (d) other topics, and arranged chronologically in each group.

(a) Atlas Florae Europaea

- Jalas, J. & Suominen, J. 1967: Mapping the distribution of European vascular plants. – Memoranda Soc. Fauna Flora Fennica **43**: 60-72.
- Jalas, J. 1969: Report on mapping the flora of Europe. – V Simp. Flora Europaea (20 – 30 de mayo de 1967), pp. 15-23. Publ. Univ. Sevilla.
- 1971: Progress report on mapping the flora of Europe. – Boissiera **19**: 61-63.
- Jalas, J. & Suominen, J. (ed.) 1972: Atlas Florae Europaea. 1. Pteridophyta (*Psilotaceae* to *Azollaceae*). – 121 pp. Helsinki.
- & — 1973: Atlas Florae Europaea. 2. Gymnospermae (*Pinaceae* to *Ephedraceae*). – 40 pp. Helsinki.
- Jalas, J. 1975: Mapping as an auxiliary method in chorological and taxonomical botany. – Abstr. XII Int. Bot. Congr. I: 114. Leningrad.
- Jalas, J. & Suominen, J. (ed.) 1976: Atlas Florae Europaea. 3. *Salicaceae* to *Balanophoraceae*. – 128 pp. Helsinki.
- & — 1979: Atlas Florae Europaea. 4. *Polygonaceae*. – 71 pp. Helsinki.
- & — 1980: Atlas Florae Europaea. 5. *Chenopodiaceae* to *Basellaceae*. – 119 pp. Helsinki.
- Jalas, J. 1981: State and features of the chorological information used for Atlas Florae Europaea. – Mapping the Flora of the Balkan Peninsula 1981: 13-20. Sofia.
- Jalas, J. 1983: Atlas Florae Europaea notes. 1. New nomenclatural combinations in *Alsinoideae* and *Paronychioideae* (*Caryophyllaceae*). – Ann. Bot. Fennici **20**: 109-111.
- Jalas, J. & Suominen, J. (ed.) 1983: Atlas Florae Europaea. 6. *Caryophyllaceae* (*Alsinoideae* and *Paronychioideae*). – 176 pp. Helsinki.
- & — 1984: Proceedings of the 7. meeting of the Committee for mapping the flora of Europe, August 23-24 1983, Helsinki. – Norrlinia **2**: 1-120.
- Jalas, J. 1985: Atlas Florae Europaea notes. 5. New nomenclatural combinations in *Dianthus* and *Aconitum*. – Ann. Bot. Fennici **22**: 219-221.
- Jalas, J. & Suominen, J. (ed.) 1986: Atlas Florae Europaea. 7: *Caryophyllaceae* (*Silenoideae*). – 229 pp. Helsinki.
- Jalas, J. & Kvist, G. 1987: Atlas Florae Europaea notes. 7. Taxa of the *Ranunculus auricomus* group recognized as species by Marklund in 1940. – Ann. Bot. Fennici **24**: 221-223.
- Jalas, J. 1988: Atlas Florae Europaea notes. 9-11. *Ranunculaceae*. – Ann. Bot. Fennici **25**: 295-299.
- Jalas, J. & Suominen, J. (ed.) 1988: Atlas Florae Europaea. I-III. — Published as a facsimile compendium of Atlas Florae Europaea 1-7 (1972-86). Cambridge.
- & — 1989: Atlas Florae Europaea. 8. *Nymphaeaceae* to *Ranunculaceae*. – 261 pp. Helsinki.
- & — 1991: Atlas Florae Europaea. 9. *Paeoniaceae* to *Capparaceae*. – 110 pp. Helsinki. 1991.
- & — 1994: Atlas Florae Europaea. 10. *Cruciferae* (*Sisymbrium* to *Aubrieta*). – 224 pp. Helsinki. 1994.
- Jalas, J. 1996: Atlas Florae Europaea notes. 13. Suggestions on *Alyssum* and *Lepidium* (*Cruciferae*). – Ann. Bot. Fennici **33**: 283-284.
- Jalas, J., Suominen, J. & Lampinen, R. (ed.) 1996: Atlas Florae Europaea. 11. *Cruciferae* (*Ricotia* to *Raphanus*). – 310 pp. Helsinki.
- Jalas, J. 1999: Nomenclatural adjustments in *Hylotelephium* (*Crassulaceae*) and new combinations in *Saxifraga* (*Saxifragaceae*). – Ann. Bot. Fennici **36**: 19-20.
- Jalas, J., Suominen, J., Lampinen, R. & Kurtto, A. (ed.) 1999: Atlas Florae Europaea. 12. *Resedaceae* to *Platanaceae*. – 250 pp. Helsinki.

(b) *Thymus*

- Jalas, J. 1947: Zur Systematik und Verbreitung der fennoskandischen Formen der Kollektivart

- Thymus Serpyllum* L., em. Fr. – Acta Bot. Fennica **39**: 1-92.
- 1947: *Thymus pulegioides* L. x *Th. Serpyllum* ssp. *angustifolius* (Pers.) Vollm. (*Th. oblongifolius* Opiz; non H. Braun), ein für Ostfennoskandien neuer Bastard. – Memoranda Soc. Fauna Flora Fennica **23**: 151-154.
 - 1948: Chromosome studies in *Thymus*. I. Somatic chromosome numbers with special reference to the Fennoscandian forms. – Hereditas **34**: 414 – 434.
 - 1949: Eastern forms of *Thymus pulegioides* L. in the flora of Fennoscandia. – Arch. Soc. Vanamo **3**: 123-124.
 - Jalas, J. & Pohjo, T. 1965: Chromosome studies in *Thymus* L. (*Labiatae*). II. Some Swiss and Hungarian taxa. – Ann. Bot. Fennici **2**: 165-168.
 - & — 1965: Chromosome studies in *Thymus* L. (*Labiatae*). III. A few counts on miscellaneous taxa. – Ann. Bot. Fennici **2**: 169-170.
 - Jalas, J. & Kaleva, K. 1966: Chromosome studies in *Thymus* L. (*Labiatae*). IV. Mitotic numbers of some Balkan, Transylvanian and South Alpine taxa. – Ann. Bot. Fennici **3**: 123-127.
 - & — 1967: Chromosome studies in *Thymus* L. (*Labiatae*). V. – Ann. Bot. Fennici **4**: 74-80.
 - & — 1970: Supraspezifische Gliederung und Verbreitungstypen in der Gattung *Thymus* L. (*Labiatae*). – Feddes Repert. **81**: 93-106.
 - Jalas, J. 1970: *Thymus sectio Serpyllum* in the Southern French Alps (Alpes françaises du Sud). – Veröff. Geobot. Inst. Rübel Zürich **43**: 186-203.
 - 1971: Notes on *Thymus* L. (*Labiatae*) in Europe. I. Supraspecific classification and nomenclature. – Bot. J. Linn. Soc. **64** (Flora Europaea Notulae Syst. 9): 199-215.
 - 1971: Notes on *Thymus* L. (*Labiatae*) in Europe. II. Comments on species and subspecies. – Bot. J. Linn. Soc. **64** (Flora Europaea Notulae Syst. 10): 247-271.
 - 1972: *Thymus* L. – Pp. 172-182 in: Tutin, T. G. et al. (ed.), Flora Europaea **3**. Cambridge.
 - 1973: *Thymus* subsect. *Pseudomarginati* in the Himalayas and adjoining western mountain ranges, and in Caucasia. – Ann. Bot. Fennici **10**: 104-122.
 - 1974: Notes on *Thymus* L. (*Labiatae*) in Europe. III. – Ann. Bot. Fennici **11**: 262-266.
 - Jalas, J. & Uotila, M. 1976: Chromosome studies in *Thymus* L. (*Labiatae*). VI. Counts on Macedonian and Thracian taxa. – Ann. Bot. Fennici **13**: 61-64.
 - Jalas, J. 1980: Turkish taxa of *Thymus* (*Labiatae*) described as new or revised. – Ann. Bot. Fennici **17**: 315-324.
 - 1982: *Thymus*. – Pp. 532-551 in: Rechinger, K. H. (ed.), Flora Iranica **150**. Graz.
 - 1982: *Thymus* L., *Coridothymus* Reichb. fil. – Pp. 349-382 in: Davis, P. H. (ed.), Flora of Turkey and the East Aegean islands, **7**. Edinburgh.
 - 1986: *Thymus praecox* subsp. *caucasicus* (Ronniger) Jalas, comb. nova. – Willdenowia **15**: 423-424.
 - 1988: *Thymus* L. – Pp. 209-210 in: Davis, P. H., Mill, R. R. & Kit Tan (ed.), Flora of Turkey and the East Aegean Islands (Supplement), **10**. Edinburgh.

(c) Taxonomy, caryology etc. (excl. *Thymus*)

- Jalas, J. 1949: Über *Arabis borealis* Andrz. ex Led., eine in fennoskandinischen Florengebiet bisher übersehene Art, nebst einigen Bemerkungen zur Systematik nordischer *Arabis hirsuta* (L.) Scop. -Formen. – Arch. Soc. Vanamo **2**: 64-73.
- 1952: A parallel cultivation experiment on *Oxytropis campestris* ssp. *sordida* (Willd.) Hartm. – Arch. Soc. Vanamo **7**: 39-43.
 - 1952: *Anthyllis Kuzenevae* Juz. and the borealis group of *Anthyllis Vulneraria* L. – Arch. Soc. Vanamo **7**: 49-52.
 - 1954: Populationsstudien an *Sedum telephium* L. in Finnland. – Ann. Bot. Soc. Vanamo **26**(3): 1-47.

- 1957: Rassentaxonomische Probleme im Bereich des *Anthyllis vulneraria* L.-Komplexes in Belgien. — Bull. Jard. de l'Etat Bruxelles **27**: 405-416.
- Jalas, J. & Rönkkö, M. T. 1960: A contribution to the cytotoxicity of the *Sedum telephium* group. — Arch. Soc. Vanamo **14**: 112-116.
- Jalas, J. 1961: Fälle von Introgression in der Flora Finnlands, hervorgerufen durch die Tätigkeit des Menschen. — Fennia **85**: 58-81.
- Jalas, J. & Rikkinen, K. 1962: Populationsstudien an *Melampyrum pratense* L. in Finnland. I. Über die Variation im Wasserscheidegebiet zwischen Pohjanmaa und Nord-Häme. — Ann. Bot. Soc. Vanamo **32**(4): 1-24.
- Jalas, J. & Raitanen, P.R. 1962: Populationsstudien an *Melampyrum pratense* L. in Finnland. II. Die Variation im Lichte des Herbariumsmaterials im Botanischen Museum der Universität Helsinki. — Ann. Bot. Soc. Vanamo **34**(1): 1-21.
- Jalas, J. 1963: Notes on *Cerastium* L., subsect. *Perennia* Fenzl (*Caryophyllaceae*). — Arch. Soc. Vanamo **18**: 57-65.
- Jalas, J. & Hirvelä, U. 1964: Notes on the taxonomy and leaf anatomy of *Carex elata* All., *C. omskiana* Meinh. and *C. x turfosa* Fr. — Ann. Bot. Fennici **1**: 47-54.
- Jalas, J. 1964: *Cerastium* L. (perennial spp.) — Pp. 136-142 in: Tutin, T. G. et al. (ed.), Flora Europaea **1**. Cambridge.
- 1966: *Cerastium sventenii* Jalas, sp. nova, and the related Macaronesian taxa. — Ann. Bot. Fennici **3**: 129-139.
- Jalas, J. & Sell, P.D. 1967: *Cerastium fontanum* Baumg. — Watsonia **6**: 292-294.
- Jalas, J. 1967: Populationsstudien an *Melampyrum pratense* L. in Finnland. III. Merkmalsverbreitung und Taxonomie. — Ann. Bot. Fennici **4**: 486-526.
- Jalas, J. & Kukkonen, I. 1973: Typification of the taxa of *Euphrasia* (*Scrophulariaceae*) described by Finnish botanists. — Ann. Bot. Fennici **10**: 27-42.
- Jalas, J. & Lindholm, R.K. 1975: Biosystematics of *Rumex longifolius* DC. of Fennoscandia and the Pyrenees. — An. Inst. Bot. Cavanilles **32**: 197-202.
- Jalas, J. 1977: New nomenclatural combinations in *Euphrasia*, *Rumex*, *Silene* and *Stachys*. — Ann. Bot. Fennici **14**: 191-192.
- 1984: *Silene uniflora* subsp. *thorei* (Dufour) Jalas, comb. nova. — Willdenowia **14**: 48-49.
- Jalas, J. & Pellinen, K. 1985: Chromosome counts on *Erigeron*, *Hieracium*, *Pilosella* and *Sonchus* (*Compositae*), mainly from Finland. — Ann. Bot. Fennici **22**: 45-47.
- Jalas, J. 1991: Taxonomical treatment and nomenclature of Fennoscandian taxa of "Thlaspi alpestre". — Memoranda Soc. Fauna Flora Fennica **66**: 76-78.
- 1993: *Cerastium* L. (perennial species excl. *C. fontanum*) — Pp. 164-172 in: Tutin, T. G. et al. (ed.), Flora Europaea **1**, ed. 2. Cambridge.
- 1993: Problems concerning *Rudbeckia laciniata* (*Asteraceae*) in Europe. — Fragm. Flor. Geobot. Suppl. **2**(1): 289-297.

(d) Others

- Jalas, J. 1950: Zur Kausalanalyse der Verbreitung einiger nordischen Os- und Sandpflanzen. — Ann. Bot. Vanamo **24**(1): 1-362. (Diss.)
- Jalas, J. & Okko, V. 1951: Botanical and geological analysis of the *Cladum Mariscus* station in Joroinen. — Arch. Soc. Vanamo **5**: 82-101.
- Jalas, J. 1955: *Rhacomitrium lanuginosum* (Hedw.) Brid. als Klimaindikator in Ostfennoskandien. — Arch. Soc. Vanamo **9**(suppl.): 73-88.
- Hemerobie und hemerochore Pflanzenarten. Ein terminologischer Reformversuch. — Acta Soc. Fauna Flora Fennica **72**(11): 1-15.
- 1956: *Campanula rapunculoides* L. als Ackerunkraut in Südfinnland. — Arch. Soc. Vanamo **11**: 70-77.

- 1957: Die geobotanische Nordostgrenze der sog. Eichenzone Südwestfinnlands. — Ann. Bot. Soc. Vanamo **29**(5): 1-32.
- Jalas, J. & Juusela, T. 1959: Unkrautstudien und Bodenuntersuchungen auf den Grundwasserstauparzellen des wasserwirtschaftlichen Versuchsfeldes Maasoja in Vihti, Südfinnland. — Ann. Bot. Soc. Vanamo **30**(5): 1-61.
- Jalas, J. 1960: Treatment of the aliens in the Flora Europaea. — Feddes Report. **63**: 212-215.
- 1960: Distribution and history of different hairiness types of *Medicago lupulina* L. in Eastern Fennoscandia. — Feddes Report. **63**: 215-218.
- 1961: Besondere Züge der Vegetation und Flora auf den Osen. — Arch. Soc. Vanamo **16**(suppl.): 25-33.
- 1961: Regionale Züge in der Felsenvegetation und Flora Ostfennoskandiens. — Arch. Soc. Vanamo **16**(suppl.): 38-49.
- Jalas, J. & Honkala, T. 1962: Über die Beziehung einiger Gartenunkräuter zum Nährstoffgehalt des Bodens in der Stadt Hämeenlinna in Südfinnland. — Arch. Soc. Vanamo **16**: 3-18.
- Jalas, J. & Valpas, A. 1962: Flechtenheide oder Heidewald. Analyse eines Grenzfalls. — Arch. Soc. Vanamo **16**: 67-74.
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- 1965: Die zonale und regionale Gliederung der fennoskandischen Vegetation. — Rev. Roum. Biol. — Bot. **10**(1-2): 109-113.
- Jalas, J., Ahti, T. & Hämet-Ahti, L. 1968: Vegetation zones and their sections in northwestern Europe. — Ann. Bot. Fennici **5**: 169-211.
- Jalas, J. 1972: *Philadelphus caucasicus* Koehne var. *glabratus* Hu, an old ornamental in Finland. — Ann. Bot. Fennici **9**: 160-162.
- 1975: Progress in the study of vascular plants in Finland 1962 – 1971. — Mem. Soc. Broteriana **24**(2): 395-462.
- Jalas, J., Kukkonen, I. & Uotila, P. 1976: Notes on the flora of European Turkey. — Notes R. Bot. Garden Edinburgh **35**: 69-76.
- Jalas, J. 1991: Alien hemerochores in Finnmark fylke, N. Norway, north of 70° N. — Memoranda Soc. Fauna Flora Fennica **66**: 79-85.
- 1994: *Heracleum sphondylium* subsp. *sphondylium* and subsp. *sibiricum* as wartime immigrants in northernmost Fennoscandia. — Aquilo Ser. Bot. **33**: 41-45.

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