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R.L. Jefferies fonds
FINDING AID

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Prepared by T.Shida, Aug. 2022;

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R. L. Jefferies fonds

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Summary information

Repository:	University of Toronto Mississauga Library, Archives & Special Collections
Title:	R. L. Jefferies fonds
Reference code:	F005
Accession [alternative]:	A2022.002
Date:	2009-2021 (date of accumulation)
Date:	1978-2009 (date of creation)
Physical description:	1.4 m of textual records 1,841 photographs : col., b&w ; 35 mm 130 digital files (336.2 MB)
Language:	English
Dates of creation, revision and deletion:	Created: 18 Aug. 2022, T. Shida Revised, descriptions added: 29 Aug. 2024, C. Long

Administrative history / Biographical sketch

Note

Robert “Bob” Lenthall Jefferies was born on 13 March 1936 in Trowbridge, Wiltshire, England, and grew up in Clevedon, Somerset. His father, Herbert, was the chief financial officer of the local district council and his mother, Violet, instilled in him knowledge of British wildflowers and a love of natural history. He studied at the University of Bristol and graduated with a degree in botany with subspecialties in chemistry and microbiology in 1958 and earned his doctorate in plant ecology in 1962. He moved to the University of California, Davis from 1962-64 for a two-year postdoctoral fellowship with Emanuel Epstein in the soil and plant nutrition department. In California, he met Susan Locke, who he married in 1964 before returning to England to work with Jack Dainty at the University of East Anglia in Norwich. In 1973, Prof. Jefferies took a year-long sabbatical as visiting professor at the University of Toronto, where Dainty had been made chair of the Department of Botany a year prior. During his visit, Jefferies was asked to stay on as a full professor, which he accepted in 1975. He remained at the University of Toronto until his retirement in 2001. He continued to teach botany and biology as professor emeritus. Prof. Jefferies’ research focus was the ecological systems of the Hudson-James Bay region. He was first invited to join Fred Cooke at his research camp in La Pérouse Bay near Churchill, Manitoba. From 1978-1992, Jefferies spent his summers there with graduate students and international collaborators, studying nesting snow geese and plant-herbivore interactions as part of the La Pérouse Bay Snow Goose Project. Between 1993-2009, he co-led the Hudson Bay Project with Robert Rockwell of the American Museum of Natural History, and Ken Abraham of the Ontario Ministry of Natural Resources. The project

was a collaborative research program which studied surveyed vegetational change and other climactic variables in northern Canada related to population trends of migrating Canada and lesser snow geese. According to his obituary in the *Globe and Mail*, “Prof. Jefferies was among the first to recognize that the geese had begun multiplying in unprecedented numbers and that their increased population was turning part of the Arctic into a desert. He also realized that the loss of vegetation allowed seawater to seep in and further degrade the environment which, in turn, caused a decline among other animals living there.” His effort to document climate change's effects is credited with helping inform wildlife management policy, including the establishment of Wapusk National Park in the Hudson Bay lowlands (formerly La Perouse Bay).

He was a member of the Intergovernmental Panel on Climate Change (IPCC), which received the 2007 Nobel Peace Prize for its work on the impacts of climate change.

In addition to his research in the field, Prof. Jefferies served as Associate Editor of the *Journal of Ecology* and was on the editorial board of *Global Change Biology*. He helped create BIO150: Organisms in the Environment, the largest class in Canada and a required course for most science students at the University of Toronto. He passed away on 8 July 2009.

Custodial history

Field books and digital files were in the custody of Dr. Peter Kotanen and physically transferred to UTM Library in May 2022. Photographic slides were in the custody of Dr. Ken Abraham and transferred to UTM Library in August 2022. Electronic records were compiled and transferred by Dr. Kotanen and Sherry Du. Legal custody of the records was transferred from Sue Claire Jefferies in 2022.

Scope and content

Fonds consists of notebooks primarily containing the field notes of Robert L. Jefferies, graduate students and others, kept as research for the Hudson Bay Project; photographic research and lecture slides; and digital files related to the custodianship of the archives.

Notes

Title notes

Physical condition

Please contact the archives at utml.cds@utoronto.ca for more information about accessing digital files.

Immediate source of acquisition

Donated by Sue Claire Jefferies in 2022.

Arrangement

The fonds has been arranged into the following series:

Series 1: Field books

Series 2: Personal

Series 3: Digital records

Restrictions on access

Open

Conditions governing use

UTM Library does not hold copyright to all material in the fonds. The user is responsible for obtaining permission from all applicable rights holders to publish any part of the material.

Related material

See also the Churchill Community of Knowledge Digital Archive, an online resource of data and media about the Town of Churchill, its people, Wapusk National Park, and the extensive research supported by the Churchill Northern Studies Centre. This Digital Archive is hosted by the Yorkspace Institutional Repository, York University, Toronto.

- The Robert Lenthall Jefferies Collection (<https://hdl.handle.net/10315/9274>)

- The Fred Cooke Collection (<https://hdl.handle.net/10315/10048>)

Accruals

Further accruals expected.

Other notes

- **Publication status:** Published
- **Level of detail:** Full
- **Status description:** Final

Access points

- Textual records (documentary form)
- Photographs and art (documentary form)
- Electronic records (documentary form)

Series descriptions

Series F005-1 A2022.002/B001-B006: Field books

Date: 1978-2009 (date of creation)

Scope and content:

Series consists of notebooks primarily containing the field notes of Robert L. Jefferies, graduate students and others, kept as research for the Hudson Bay Project.

Physical description: 85 notebooks : 27 x 21 cm and smaller

Access points:

- Textual records (documentary form)

Restrictions on access:

Open

Publication status:

Published

File / item list

Reference code	Title	Dates	Physical description
F005-1-A2022.002/B001(01)	Item - Book 1: Camp Finney	9 Jul.-30 Aug. 1978	1 field book ; 19 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: transect vegetation data (percentage of cover); exclosure vegetation data (percentage of cover); details of simulated grazing experiment; notes on the characteristics and vegetation cover associated with Palsa bogs, and "Baby pingos", bird cove, spruce lichen woodland; counts for various plant species along Belts; glacial landforms of metro area; and vegetation inventory associated with different sites (i.e. Watson Point, Fox Island, behind camp).</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Cargill, Sue</p>		
F005-1-A2022.002/B001(02)	Item - Book 2: La Perouse Bay	23 May-29 Aug. 1980	1 field book ; 19 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: a natural history log, and notes on experimental design (i.e. site maps, nutrients treatments); daily records of air and soil temp; goose dropping counts; weight of <i>Puccinellia phryganodes</i> roots; weight of goose droppings, for water loss over time; leaf area index for <i>P. phryganodes</i> and <i>Carex aquatilis</i>; ammonia and nitrate determinations from potassium chloride extracts; nitrate estimations from water extracts for <i>P. phryganodes</i> and <i>Carex aquatilis</i>; fresh weight and dry weight of oxidized</p>		

	and reduced soil for <i>P. phryganodes</i> and <i>Carex aquatilis</i> ; weight of goslings at birth, weight of eggs, and goose population size; and soil surface redox values, pH, and salinity. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.		
F005-1-A2022.002/B001(03)	Item - Book 3: La Perouse Bay	12 May-18 Sept. 1980	1 field book ; 19 x 12 cm
	<i>Scope and content:</i> Field book contains: a daily journal; bird counts/observations; and notes from a field trip to Scarborough Bluffs. <i>Note [generalNote]:</i> Field notes recorded by Cargill, Sue		
F005-1-A2022.002/B001(04)	Item - Book 4: La Perouse Bay	15 May-16 Jul. 1981	1 field book ; 19 x 12 cm
	<i>Scope and content:</i> Field book contains: a daily journal; weights of plant samples for nitrogen determination; goose dropping counts; and transect details. <i>Note [generalNote]:</i> Field notes recorded by Cargill, Sue		
F005-1-A2022.002/B001(05)	Item - Book 5: La Perouse Bay	5 Jun.-15 Aug. 1984	1 field book ; 18 x 12 cm
	<i>Scope and content:</i> Field book contains: detailed records of the weather (time, current temperature, maximum and minimum air temperature, river temperature, river depth, wind direction, cloud cover percentage); and daily comments. <i>Note [generalNote]:</i> Field notes recorded by [Doucet, John]		
F005-1-A2022.002/B001(06)	Item - Book 6: La Perouse Bay	4 Sept. 1984	1 field book ; 19 x 12 cm
	<i>Scope and content:</i> Field book contains: Jefferies' ideas and notes; vegetation counts within experimental plots; and summary plant frequency data in grazed and ungrazed plots. <i>Note [generalNote]:</i> Field notes recorded by [Jefferies, R.L.]		
F005-1-A2022.002/B001(07)	Item - Book 7: La Perouse Bay	27 May-2 Aug. 1984	1 field book ; 19 x 12 cm
	<i>Scope and content:</i> Field book contains: details of nitrogen fixation experiment (time, air temperature, cloud cover percentage, r-value, and microvolts); and possibly vegetation point counts. <i>Note [generalNote]:</i> Field notes recorded by [Doucet, John]		

F005-1-A2022.002/B001(08)	<p>Item - Book 8: McConnell</p> <p>4 Jun.-1 Aug. 1985; 1 field book ; 18 x 12 cm 10-15 Jun. 1986</p> <p><i>Scope and content:</i></p> <p>Field book contains: natural history log; notes from helicopter flights; landscape sketches, including one titled 'Spring Hunting'; vegetation counts (possibly point counts or presence/absence within a given area); list of plants on ridges, and list of plants in meadow areas; incidental identifications on Eskimo Point; transect vegetation data; and goose dropping counts.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>
F005-1-A2022.002/B001(09)	<p>Item - Book 9: La Perouse Bay</p> <p>31 May-13 Jul. 1 field book ; 18 x 12 cm 1985; 26 May-15 Aug. 1986</p> <p><i>Scope and content:</i></p> <p>Field book contains: detailed records of the weather (time, current temperature, maximum and minimum temperature, river temperature, river depth, wind direction, cloud cover percentage); and daily comments.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Doucet, John]</p>
F005-1-A2022.002/B001(10)	<p>Item - Book 10: La Perouse Bay</p> <p>Jul. 1985; 10-29 Aug. 1986; 25 Jun.-3 Jul. 1987; 7 Aug. 1989 1 field book ; 18 x 12 cm</p> <p><i>Scope and content:</i></p> <p>Field book contains: transect data; goose dropping counts; spring Carex aquatilis data; C. aquatilis and Puccinellia phryganodes survival data; and plant measurements in grazed and ungrazed areas.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L., [Hik, David]</p>
F005-1-A2022.002/B001(11)	<p>Item - Book 11: La Perouse Bay</p> <p>16 May-29 Jun. 1986 1 field book ; 18 x 12 cm</p> <p><i>Scope and content:</i></p> <p>Field book contains: transect data; shoot densities of Puccinellia phryganodes, Carex aquatilis, and C. subspathacea, in grazed and ungrazed plots; counts of Ranunculus, Puccinellia, Potentilla, Stellaria and Carex (species not identified, but likely subspathacea) in grazed and ungrazed plots at Randy's tower; and goose dropping counts at East Bay and Randy's tower.</p> <p><i>Note [generalNote]:</i></p> <p>Cover is inscribed with the initials 'RJSM'.</p>
F005-1-A2022.002/B001(12)	<p>Item - Book 12: La Perouse Bay</p> <p>20 May-30 Jul. 1986 1 field book ; 18 x 12 cm</p> <p><i>Scope and content:</i></p> <p>Field book contains: transect data; plot/exclosure conditions near Randy's tower; number of standing and floating shoots at the Esker site; goose dropping counts; shoot densities in grazed and ungrazed plots; and dropping application plots.</p> <p><i>Note [generalNote]:</i></p>

	Cover is inscribed with the name Janet.		
F005-1-A2022.002/B001(13)	Item - Book 13: La Perouse Bay	31 May-19 Jun. 1986; 25 May-15 Jun. 1987; and 28 May-9 Jun. 1988	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: natural history log, including research lists; notes from helicopter flights (i.e., lists of plant species(?) on helicopter flights); notes on experimental design; and likely notes from departmental talks and miscellaneous ideas.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>		
F005-1-A2022.002/B001(14)	Item - Book 14: La Perouse Bay	27 Apr.-5 Sept. 1987	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains a weather log (time, precipitation, temperatures, wind direction and speed, water temperature and depth, conditions and comments).</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Doucet, John]</p>		
F005-1-A2022.002/B001(15)	Item - Book 15: La Perouse Bay	6 Apr.-26 Jul. 1987	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: nest surveys including goose egg/clutch size (likely snow geese); eider nest surveys; Tony' Iacobelli's data; and scant bird observations.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Doucet, John]</p>		
F005-1-A2022.002/B001(16)	Item - Book 16: La Perouse Bay	3 Jun.-8 Aug. 1988	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: notes on experimental design and day-to-day occurrences; data from outdoor planting experiment, including species and growth form data; use of vegetation by geese along transects (i.e. bare mud, grubbed, undergoing degradation, percentage of cover of vegetation types, etc.); goose dropping counts; likely goose measurements (ID, sex, weight, head); scoring of Puccinellia phryganodes experiment; pecking rates; titrations for mineralization; and leaf area index for P. phryganodes and Carex (likely subsp. thalassia).</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Chou, Rowena]</p>		
F005-1-A2022.002/B001(17)	Item - Book 17: La Perouse Bay	13 Jun.-28 Jul. 1988; 1 Jul.-14 Aug. 1990	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: ammonium values; fresh and dry weights of goose droppings; gosling faeces and Carex grazing; gosling faeces and mineralization harvest; important dates from 1988; carbon dioxide respiration titrations; adult faeces collections for nitrogen determinations; boric acid titrations; volatilization ammonium; goose dropping counts; above-ground biomass from Randy's Flats and East</p>		

	Bay; and feeding trials, including behavior (eat, drink, sleep, preen, walk, other), total pecks and faeces counts. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.		
F005-1-A2022.002/B001(18)	Item - Book 18: La Perouse Bay <i>Scope and content:</i> Field book contains: hatch check list; LPB band colour code; natural history log; scores for goose dropping plots; gosling plots: behavior (eat, drink, sleep, preen, walk, other), total pecks and faeces counts; reciprocal transplants: Puccinellia phryganodes, alive or dead; and use of vegetation by geese along transects (i.e. bare mud, grubbed, undergoing degradation, percentage cover of vegetation types). <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.	1 Jun.-16 Aug. 1989	1 field book ; 18 x 12 cm
F005-1-A2022.002/B001(19)	Item - Book 19: Unknown location <i>Scope and content:</i> Field book contains: nitrate data for shoots and roots; and transect data. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.	[1989?]	1 field book ; 15 x 11 cm
F005-1-A2022.002/B001(20)	Item - Book 20: La Perouse Bay <i>Scope and content:</i> Field book contains: grubbing plots; feeding experiment: behavior (eat, drink, sleep, preen, walk, other), total pecks and faeces counts; probable nest surveys; gosling weights; goose dropping counts; dry weights likely for vegetation samples; faecal dry weights; and weather observations. <i>Note [generalNote]:</i> Field notes recorded by [Gadallah, Fawziah L.]	7 Jun.-21 Aug. 1989	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(01)	Item - Book 21: La Perouse Bay <i>Scope and content:</i> Field book contains: goose dropping counts; number of live Carex aquatilis shoots inside and outside exclosures ([G. Peter Kershaw's] plots); feeding trials (labeled as Gosling Plots): behavior (eat, drink, sleep, preen, walk, etc.), total pecks, faeces counts; Puccinellia phryganodes and Carex experiment scoring; and shoot counts (David's plots). <i>Note [generalNote]:</i> Field notes recorded by [Vardy, Catharrine]	21 Jun.-12 Aug. 1989	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(02)	Item - Book 22: La Perouse Bay <i>Scope and content:</i> Field book contains: some daily weather notes; feeding trial data; notes from Eskimo Point visit including a list of the vegetation; description of plants found in bog pools; and detailed observations of La Pérouse Bay.	1 Jul.-12 Aug. 1990	1 field book ; 18 x 12 cm

	<i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.		
F005-1-A2022.002/B002(03)	Item - Book 23: La Perouse Bay <i>Scope and content:</i> Field book contains: data from gosling plots, including behavior (eat, drink, sleep, preen, walk, etc.), total pecks, faeces and counts; and similar data from feeding trials. <i>Note [generalNote]:</i> Field notes recorded by Kuzyk, Yuri	7 Jul.-15 Aug. 1990	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(04)	Item - Book 24: La Perouse Bay <i>Scope and content:</i> Field book contains: [Mario Tenuta's] mineralization experiments; site drawings; weekly notes on air temperatures and nest sites; soil temperatures; Randy's Flats vegetation transects; data from feeding trials including behavior (eat, drink, sleep, preen, walk), total pecks, and faeces counts; goose dropping counts; Tundra golf; and soil and plant dry weights. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.	26 May-14 Aug. 1990; 3 Aug.-2 Sept. 1991	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(05)	Item - Book 25: La Perouse Bay <i>Scope and content:</i> Field book contains: data from feeding trials including behavior (eat, drink, sleep, preen, walk, etc.), total pecks, and faeces counts. <i>Note [generalNote]:</i> Cover is inscribed with the name Jennie.	1 Jul.-11 Aug. 1990	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(06)	Item - Book 26: La Perouse Bay <i>Scope and content:</i> Field book contains: data from gosling feeding trials including behavior (eat, drink, sleep, preen, walk, etc.), total pecks, and faeces counts. <i>Note [generalNote]:</i> Field notes recorded by Srivastava, Diane	1 Jul.-15 Aug. 1990	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(07)	Item - Book 27: La Perouse Bay <i>Scope and content:</i> Field book contains: initial and final weight of goslings; Tundra golf; and data from feeding trials including behavior (eat, drink, sleep, preen, walk, etc.), total pecks, and faeces counts. <i>Note [generalNote]:</i> Field notes recorded by [Gadallah, Fawziah L.]	1 Jul.-15 Aug. 1990	1 field book ; 18 x 12 cm

F005-1-A2022.002/B002(08)	Item - Book 28: La Perouse Bay <i>Scope and content:</i> Field book contains: detailed records of the weather including time, precipitation, current temperature, maximum and minimum temperature, river temperature, river depth, wind direction, percentage of cloud cover, and daily comments; and notes of bird sightings. <i>Note [generalNote]:</i> Field notes recorded by [Glew, John R.]	19 May-13 Aug. 1990	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(09)	Item - Book 29: La Perouse Bay <i>Scope and content:</i> Field book contains: notes from Bodega Bay; notes from Davidson's thesis; Jefferies' natural history log (also "nature notes"); soil water content (percentage of water per gram of dry weight); redox values (microvolt); ammonium and nitrate values; dry weights of soil or possibly plants; transect vegetation data; soil fresh and dry weights; notes from Thompson Point; and number of shoots and flowering shoots in grazed and ungrazed plots. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.	1991	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(10)	Item - Book 30: La Perouse Bay <i>Scope and content:</i> Field book contains: map of Randy's Flats and East Bay dropping plots; Tundra golf; number of standing Carex aquatilis in ungrazed and grazed shoot-pulling plots; air and soil temperature data; soil fresh weights for potassium chloride extracts; transect vegetation data; Puccinellia phryganodes biomass estimates from [Mario Tenuta's] plots; biomass at Randy's Flats and East Bay; details of isotope experiment; C. aquatilis carbohydrates; biomass at Thompson Point and South Tower; shoot and root weights for isotope experiment; and flowering dates phenology (1992, 1994). <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.	20 Jun.-7 Aug. 1992; 1 Jun.-3 Jul. 1995	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(11)	Item - Book 31: La Perouse Bay and other locations <i>Scope and content:</i> Field book contains: soil temperatures; length measurements of new roots; number of roots; air and soil temperatures; surveys of Akimiski Island surveys, Northern Ontario/Manitoba coastline, Ministik Creek, Goose Berry Brook, Wabuk Point, Little Cape, etc.; dry weights of plant samples including from Randy's Flats, East Bay, and in grazed and ungrazed plots; shoot and flower counts; dry weights of turfs in grazed and ungrazed plots; vegetation survey and weights at Peter's Rock; urease measurements; standing crop at banding site; Tundra golf; and soil fresh and dry weights. <i>Note [generalNote]:</i> Field notes recorded by Finley, Scott	9 Jul.-5 Aug. 1992; 4 Jul.-6 Aug. 1994	1 field book ; 18 x 12 cm
F005-1-A2022.002/B002(12)	Item - Book 32: La Perouse Bay, Norway and Russia <i>Scope and content:</i>	17 Apr.-9 Jul. 1993	1 field book ; 18 x 12 cm

	<p>Field book contains: a photocopy of a natural history log which includes a list of plants and dates for first leaf, catkin, bud, and/or flower; Jefferies' daily journal and notes; drawing of experimental set up; number of dead and living plants; plant biomass values; ammonium values; transect vegetation data; Pea Wanik notes and site sketches; goose dropping counts; list of plants at snow goose breeding site in Russia; and notes from trip to Russia and Norway.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>		
F005-1-A2022.002/B002(13)	Item - Book 33: La Perouse Bay	26 Jun.-30 Jul. 1993	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: goose counts at Randy's Flats and from the Observation Tower; Carex aquatilis clipping data (number of shoots grazed and total number of shoots); goose dropping counts; natural history notes; recovery experiment; sedge clipping counts in grazed and ungrazed plots; end of season notes; Jefferies' personal science notes; and likely transect data.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Jefferies, R.L.]</p>		
F005-1-A2022.002/B002(14)	Item - Book 34: La Perouse Bay	1 Jun.-1 Aug. 1994	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: carbohydrate content (glucose) of Senecio congestus leaves; Instructions for carbohydrate analysis; site map and description for seed bank work; seed bank salinity measurements; carbohydrate calculations for Carex aquatilis, Puccinellia phryganodes, Carex subspathacea, Eriophorum, and Dupontia; nematodes data; birch and willow data; germination of Puccinellia phryganodes, Carex subspathacea, Potentilla egedii, Plantago juncooides, Salix sp., Salicornia borealis, and moss; and weather observations.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Chang, Esther</p>		
F005-1-A2022.002/B002(15)	Item - Book 35: Unknown location	2 Jun.-7 Aug. 1994	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: carbohydrate determination; site details and maps; nematode experiment; details of Carex aquatilis experiments; and data from willow sites.</p> <p><i>Note [generalNote]:</i></p> <p>Inscribed "DCG" on cover</p>		
F005-1-A2022.002/B002(16)	Item - Book 36: La Perouse Bay	12 May-29 Aug. 1994; 30 May-17 Jul. 1995	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: biomass of grasses from plots at Randy's Flats; biomass of Puccinellia phryganodes in The Common and at Randy's Tower; standing crop in grazed and ungrazed plots in The Common and at Randy's Tower; carbohydrate analysis; Carex shoots in grazed and ungrazed plots; aboveground biomass at various locations; soil dry weights; ammonium values; wet weights from plots; site descriptions; goose surveys; Jefferies' field notes; goose dropping counts; survey of Peter's plots; helicopter survey of the East Side of the Churchill Peninsula; and standing crop of the East Peninsula.</p> <p><i>Note [generalNote]:</i></p>		

	Field notes recorded by Jefferies, R.L.		
F005-1-A2022.002/B002(17)	Item - Book 37: La Perouse Bay	10 Jun.-6 Aug. 1995	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: n=method for soluble carbohydrate and chlorophyll analysis; fresh weight of <i>Betula glandulosa</i> and <i>Salix catkins</i>, buds, leaves, young twigs, old twigs and dead wood; Tundra golf at Randy's Flats and East Bay; preliminary chlorophyll analysis; pot/plan seedlings for <i>Potentilla egedii</i> and <i>Plantago juncooides</i>; <i>Carex aquatilis</i> grazing data; meristems of willows; <i>C. aquatilis</i> clipping experiment, fresh and dry weights of clippings; moisture content of soil in field and garden at East Bay and Commons; sample biomass tweezing from Randy's Flats and East Bay; nitrogen and soil weights from East Bay and Commons; <i>C. aquatilis</i> measurements; ground cover at East Bay and Commons; ammonium and nitrate determinations; and fresh and dry weights of willow samples.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Chang, Esther</p>		
F005-1-A2022.002/B002(18)	Item - Book 38: La Perouse Bay	8 Jun.-3 Aug. 1995	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: carbohydrate analysis of willows; soil weights and salinity; likely chlorophyll analysis; <i>Carex</i> (likely <i>aquatilis</i>) clipping data; Tundra golf; and likely transect data.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Henry, Hugh A. L.</p>		
F005-1-A2022.002/B002(19)	Item - Book 39: La Perouse Bay	8 Jun.-28 Aug. 1996; 11 May-16 Aug. 1997; 13 May 1998	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains goose dropping counts and biomass at Randy's Flats and East Bay; transect vegetation data; urease data; fresh weights for potassium chloride extracts likely from plots at Randy's Flats; dry weight of standing crop at Randy's Flats and East Bay; sugars data; photographic inventory (site maps for Station 1-12); height of vegetation; and weather observations.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>		
F005-1-A2022.002/B002(20)	Item - Book 40: Randy's Tower and East Camp	14-15 Jul. 1997	1 field book ; 17.25 x 12.7 cm
	<p><i>Scope and content:</i></p> <p>Field book contains geese counts and observations.</p>		
F005-1-A2022.002/B003(01)	Item - Book 41: La Perouse Bay	4 Jun.-8 Aug. 1998; 16-17 Jun. 1999	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: water evaporation, ground reflectance and soil temperature data under different types of ground cover; ammonia values; goose dropping counts from Randy's Flats and East Bay; juvenile hormone collections; leucine/amino acid values; soil density from Tanya's plots; grazed and ungrazed <i>Carex aquatilis</i> plots; ammonia values; biomass values from Randy's Flats and East Bay; carbohydrates for <i>Puccinellia phryganodes</i> and <i>Carex</i> (likely <i>aquatilis</i>); soil salinity at Randy's Flats;</p>		

	<p>observations from Randy's Tower; Tundra golf; blood and faecal calibrations; Barbara's feeding data for goslings; and shoot density and length of longest shoot in grazed and ungrazed plots.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>		
F005-1-A2022.002/B003(02)	<p>Item - Book 42: La Perouse Bay</p> <p><i>Scope and content:</i></p> <p>Field book contains: goose dropping counts and biomass from Randy's Flats and East Bay; biomass data; grazed and ungrazed Carex aquatilis plots; and redox (microvolt) readings.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>	<p>29 May-22 Jun. 1999; 29 May 2000</p>	<p>1 field book ; 18 x 12 cm</p>
F005-1-A2022.002/B003(03)	<p>Item - Book 43: La Perouse Bay</p> <p><i>Scope and content:</i></p> <p>Field book contains: goose dropping counts; grazed and ungrazed Carex aquatilis plots; biomass data for Randy's Flats and East Bay; ammonia values; Puccinellia phryganodes and Carex (aquatilis?) carbohydrates; Tundra golf; weights of fresh goose droppings; notes on nitrogen experiment; notes on James Bay biomass samples; and likely amino acid data.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>	<p>27 Jun.-7 Aug. 1998; 21-22 Jul. 2000</p>	<p>1 field book ; 19 x 12 cm</p>
F005-1-A2022.002/B003(04)	<p>Item - Book 44: La Perouse Bay</p> <p><i>Scope and content:</i></p> <p>Field book contains a net survey of live willows in Bluepoles, close to camp, and Japanese Gardens for invert biodiversity and abundance.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Fokiois, Bobby</p>	<p>29 Jun.-15 Jul. 1999</p>	<p>1 field book ; 17.25 x 12.7 cm</p>
F005-1-A2022.002/B003(05)	<p>Item - Book 45: La Perouse Bay</p> <p><i>Scope and content:</i></p> <p>Field book contains data on spiders sent to Ottawa; notes; and data on the Blue Poles collection.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Milakovic, Brian</p>	<p>29 May-29 Jun. 1999</p>	<p>1 field book ; 19 x 12 cm</p>
F005-1-A2022.002/B003(06)	<p>Item - Book 46: La Perouse Bay</p> <p><i>Scope and content:</i></p> <p>Field book contains: sampling list; Blue Poles/insect sorting data; and notes related to the Japanese Gardens.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Fokiois, Bobby</p>	<p>12 Jun. 1999</p>	<p>1 field book ; 17.25 x 12.7 cm</p>

F005-1-A2022.002/B003(07)	Item - Book 47: La Perouse Bay 1999-2001 1 field book ; 18 x 12 cm <i>Scope and content:</i> Field book contains: soil core weights; fresh weights of goose faecal samples; ammonium chloride and glycine uptake; Carex aquatilis dry weights; root dry weights; shoot counts; planting data; white bucket harvest data; general soil descriptions; isotope core dry weights; biomass samples from Randy's Flats and East Bay; and some recordings of air temperature. <i>Note [generalNote]:</i> Field notes recorded by Henry, Hugh A. L.
F005-1-A2022.002/B003(08)	Item - Book 48: La Perouse Bay 10-18 Jul. 1999; 6 Jun.-3 Jul. 2000 1 field book ; 19 x 12.2 cm <i>Scope and content:</i> Field book contains: note on nitrogen fertilization of moss; biomass of live and dead dicots, graminoids, and monocots; goose dropping counts; Carex aquatilis dry weights from Peter's Rock; aboveground dry plant biomass for Randy's Flats and East Bay; C. aquatilis counts; Tundra golf; fresh and dry weights of Senecio congestus; carbohydrates in S. congestus and likely C. aquatilis; redox, fresh and dry weights of East Bay and likely High Marsh soils; general soil descriptions at various East Bay sites and likely High Marsh; soil infiltration rates at High, Mid, and Fore Marsh; redox, fresh and dry weights, salinity, and general soil descriptions at Tanya Rock; goose counts at Randy's Flats; and fresh and dry weights of Puccinellia phryganodes leaves. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.
F005-1-A2022.002/B003(09)	Item - Book 49: La Perouse Bay 2000 1 field book ; 10.16 x 8.26 cm <i>Scope and content:</i> Field book contains goose dropping counts. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.
F005-1-A2022.002/B003(10)	Item - Book 50: La Perouse Bay 19 Jul. 2001 1 field book ; 17.25 x 12.7 cm <i>Scope and content:</i> Field book contains an East Bay survey and likely transect data. <i>Note [generalNote]:</i> Field notes recorded by [Jefferies, R.L.]
F005-1-A2022.002/B003(11)	Item - Book 51: La Perouse Bay 6 Jun.-15 Aug 2001 1 field book ; 19 x 12.2 cm <i>Scope and content:</i> Field book contains: chloroform fumigation data; injection experiment data; Tundra golf; weight of metal cores; dry weights of injection experiment; amounts added and pH for sodium phosphate monobasic monohydrate and dibasic dihydrate, sodium hydroxide, hydrochloric acid, sodium phosphate monobasic, sodium phosphate dibasic; likely soil weights; biomass of shoots and roots; transpiration experiment; microbial biomass; white pot harvest measurements; and surface area and dry weights. <i>Note [generalNote]:</i>

	Field notes recorded by Henry, Hugh A. L.		
F005-1-A2022.002/B003(12)	Item - Book 52: La Perouse Bay and Churchill Northern Studies Centre	4 Jun.-19 Jul. 2001; 15 Jun.-23 Jul. 2002; 31 May-25 Jul. 2003; 13 Jun.-13 Aug. 2004; 25 Apr. 2005; 10-28 May 2006	1 field book ; 19 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: goose counts at Randy's Flats; Tundra golf biomass; Carex aquatilis plots; East Bay survey; goose dropping counts; biomass samples from Randy's Flats and East Bay; plant phenology; acid and alkaline phosphates for Puccinellia phryganodes roots; soil fresh and dry weights for Sarah's phosphatase run and the Mire; plant fresh and dry weights for phosphatase roots; C. aquatilis length measurements; fresh and dry weights for shoots; aboveground C. aquatilis biomass and shoot density at Camp Nanuq and Palsa Road; carbohydrates for C. aquatilis; vegetation counts taken at unknown location; C. aquatilis shoot/root ratio; dry weights of C. aquatilis plant parts at Camp Nanuq and Palsa; and weather observations.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>		
F005-1-A2022.002/B003(13)	Item - Book 53: La Perouse Bay and Churchill Northern Studies Centre	22 Jun.-21 Jul. 2001; 20 Jun.-28 Jul. 2006	1 field book ; 19 x 12.2 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: hydroponic treatment data; Tundra golf; High Marsh bulk densities; notes on experimental design and sampling techniques; Puccinellia phryganodes samples; Hugh's soil samples; degraded soil samples; Salicornia survivorship; dry weights of Carex aquatilis plant parts at Camp Nanuq; biomass of C. aquatilis clippings and living at the Camp Nanuq and Palsa sites; C. aquatilis and P. phryganodes shoot/root ratio; and Randy's Flats bulk densities.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Sturge, Rachel]</p>		
F005-1-A2022.002/B003(14)	Item - Book 54: La Perouse Bay	31 May-29 Jul. 2003	1 field book ; 10.16 x 8.26 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: goose dropping counts; Tundra golf at Randy's Flats and East Bay; soil temperature of intact and degraded sites; possibly nitrogen fixation data (sample, soil temperature, out time, injection time, back in ground, air temperature); and Carex aquatilis data.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Jefferies, R.L.]</p>		
F005-1-A2022.002/B003(15)	Item - Book 55: La Perouse Bay and Churchill Northern Studies Centre	27 Jul.-3 Aug. 2003; 18 Jun.-1 Jul. 2004	1 field book ; 17.25 x 12.7 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: vegetation survey; Carbohydrate content of Carex aquatilis samples; coordinates for East Bay sites; carbohydrate content of C. aquatilis at the Palsa site; shoot count and dry weights, possibly from [Kate Edwards'] Palsa site; June 2004 plant phenology; dry weight of biomass at Randy's Flats; and dry weight of soil organic and mineral layers.</p> <p><i>Note [generalNote]:</i></p>		

	Field notes recorded by [Fokiois, Bobby]		
F005-1-A2022.002/B003(16)	Item - Book 56: La Perouse Bay and Churchill Northern Studies Centre	11 May-26 Jul. 2007	1 field book ; 19 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: water and air temperatures; soil temperatures in Carex aquatilis mounds, sub-surface, and in Emma's grazing plots at Camp Nanuq site; Permafrost depth; goose dropping counts; number of grazed and ungrazed C. aquatilis shoots nearby LPB Camp (Nestor 2); and carbohydrate content for various plant species.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>		
F005-1-A2022.002/B003(17)	Item - Book 57: Unknown location	[n.d.]	1 field book ; 19 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains brief notes and no fieldwork data.</p>		
F005-1-A2022.002/B003(18)	Item - Book 58: Unknown location	[n.d.]	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains brief notes and ideas related to biodiversity, including its patterns, causes and the consequences of change to ecosystems; and notes on current research.</p>		
F005-1-A2022.002/B003(19)	Item - Book 59: Unknown location	[n.d.]	1 field book ; 17.25 x 12.7 cm
	<p><i>Scope and content:</i></p> <p>Field book contains description of data related to a Landsat Thematic Mapper composite map of the northern region of the Hudson Bay lowlands.</p>		
F005-1-A2022.002/B003(20)	Item - Book 60: Unknown location	1999	1 field book ; 17.25 x 12.7 cm
	<p><i>Scope and content:</i></p> <p>Field book contains brief workaday notes, including to-do lists, phone numbers, etc.</p>		
F005-1-A2022.002/B003(21)	Item - Book 61: Unknown location	[n.d.]	1 field book ; 17.25 x 12.7 cm
	<p><i>Scope and content:</i></p> <p>Field book contains brief notes and no fieldwork data.</p>		
F005-1-A2022.002/B003(22)	Item - Book 62: Unknown location	[1992?]	1 field book ; 18 x 12 cm
	<p><i>Scope and content:</i></p> <p>Field book contains brief notes, including lists of flora and fauna.</p>		
F005-1-A2022.002/B003(23)	Item - Book 63: Unknown location	[n.d.]	1 field book ; 18 x 12 cm

	<i>Scope and content:</i> Field book contains phone numbers, brief jottings of thoughts and details, but no fieldwork data.		
F005-1-A2022.002/B004(01)	Item - Book 64: La Perouse Bay <i>Scope and content:</i> Field book contains: weights of droppings and soil cores; standing crop; goose dropping counts; Proline; total nitrogen and salts; water samples; soil water; summary of litter standing crop data; Salicornia data; notes from summer experiments; and leaf area. <i>Note [generalNote]:</i> Field notes recorded by Cargill, Sue	27 May-9 Aug. 1979	1 lab book ; 26.35 x 20.64 cm
F005-1-A2022.002/B004(02)	Item - Book 65: La Perouse Bay <i>Scope and content:</i> Field book contains: total nitrogen and total soluble nitrogen for roots and droppings; and possibly ammonia for droppings. <i>Note [generalNote]:</i> Field notes recorded by Cargill, Sue	13 Oct.-22 Mar. 1980	1 lab book ; 26.35 x 20.64 cm
F005-1-A2022.002/B004(03)	Item - Book 66: La Perouse Bay <i>Scope and content:</i> Field book contains: data on old exclosures; standing crop, regrowth, and nutrient experiments, Puccinellia phryganodes and Carex, likely acuatilis. <i>Note [generalNote]:</i> Field notes recorded by Cargill, Sue	14 May-24 Aug. 1980	1 lab book ; 26.35 x 20.64 cm
F005-1-A2022.002/B004(04)	Item - Book 67: La Perouse Bay <i>Scope and content:</i> Field book contains: soluble nitrogen samples; soils, potassium chloride extractions; soil and soil solution analyses; fresh and dry weights of soils, droppings and plant tissues; and leaf area index. <i>Note [generalNote]:</i> Field notes recorded by Cargill, Sue	5 Jun.-21 Aug. 1980	1 lab book ; 26.35 x 20.64 cm
F005-1-A2022.002/B004(05)	Item - Book 68: La Perouse Bay <i>Scope and content:</i> Field book contains: proline data table, summary for Carex and Puccinellia phryganodes roots and shoots, droppings and miscellaneous; total soluble nitrogen data table and summary for Carex and P. phryganodes roots and shoots, and fresh and dry droppings; and total nitrogen data and summary for droppings and roots. <i>Note [generalNote]:</i> Field notes recorded by Cargill, Sue	20 Nov.-23 Aug. 1980	1 lab book ; 26.35 x 20.64 cm

F005-1-A2022.002/B004(06)	<p>Item - Book 69: La Perouse Bay</p> <p>23 May-28 Jul. 1981</p> <p>1 lab book ; 26.35 x 20.64 cm</p> <p><i>Scope and content:</i></p> <p>Field book contains: standing crop estimates; regrowth experiments; demographic data and droppings in exclosure experiment; soluble nitrogen samples; droppings weight measurements and transect; leaf area data; and fresh to dry weight ratios of plant tissues</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Cargill, Sue</p>
F005-1-A2022.002/B004(07)	<p>Item - Book 70: La Perouse Bay</p> <p>30 May-8 Aug. 1984</p> <p>1 lab book ; 26.35 x 20.64 cm</p> <p><i>Scope and content:</i></p> <p>Field book contains: details of Gas Chromatograph runs; Calculations for nitrogen fixation; and weather observations.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Doucet, John</p>
F005-1-A2022.002/B004(08)	<p>Item - Book 71: La Perouse Bay</p> <p>9 May-26 Aug. 1986</p> <p>1 lab book ; 26.35 x 20.64 cm</p> <p><i>Scope and content:</i></p> <p>Field book contains: phenological notes; program plans; subspathacea shoot sampling (demography); Eastern exclosure set-up (1986); measurements of <i>Carex aquatilis</i> at East Bay. Western <i>C. aquatilis</i> near exclosures, and floating shoots in random quadrats; measurements of floating and standing shoots in and around 1985 West Bay exclosures; Randy's tower grubbed and ungrubbed exclosure samples; East Bay <i>C. flavacens</i> demography (shoots); and East Bay dropping plot.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Kotanen, Peter</p>
F005-1-A2022.002/B005(01)	<p>Item - Book 72: La Perouse Bay</p> <p>16 May-1 Aug. 1986; 6 May-9 Aug. 1987; 17-21 Jun. 1988; 17 Jun.-6 Aug. 1989; 9 Jun.-11 Jul. 1990; 1-29 Jun. 1991</p> <p>1 lab book ; 26.35 x 20.64 cm</p> <p><i>Scope and content:</i></p> <p>Field book contains: transect data for grubbed areas; Eastern exclosure set-up (1986); status of 1985 exclosures in area around Randy's tower; status of 1985 R-chain exclosures; measurements of <i>Carex aquatilis</i> at East Bay. Western <i>C. aquatilis</i> near exclosures, and floating shoots in random quadrats; measurements of floating and standing shoots in and around 1985 West Bay exclosures; grubbing regime transects; grubbed areas in the vicinity of Randy's tower, <i>Carex</i>; <i>Puccinellia phryganodes</i> plots close to the Mast River; re-grubbing of eight year old exclosure; goose dropping counts; nesting survey (i.e. density of nests); reciprocal transplant experiment; transect survey from Randy's Tower to East Bay Tower; survey data; <i>Carex</i> plots, Peter's Rock (live shoots outside and inside exclosure); dry weight of tissues from dropping plots; soil mineralization experiment; and permanent transects.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by [Jefferies, R.L.]</p>

F005-1-A2022.002/B005(02)	Item - Book 73: La Perouse Bay 22 Jun.-9 Aug. 1988; 5 Jun.-26 Jul. 1994 1 lab book ; 26.35 x 20.64 cm <i>Scope and content:</i> Field book contains: notes on a Nematode Experiment (1994); fresh and dry weights of adult goose faeces, failed breeders, and goslings; faecal measurements (i.e. nitrogen-levels, mineralization, volatilization, and respiration measurements); dropping plot productivity; and goose dropping counts. <i>Note [generalNote]:</i> Field notes recorded by [Chang, Esther]
F005-1-A2022.002/B005(03)	Item - Book 74: La Perouse Bay ca. 2003 1 lab book ; 26.35 x 20.64 cm <i>Scope and content:</i> Field book contains notes on Dutch language and translation, likely related to his appointment to the University of Gottingen. <i>Note [generalNote]:</i> The title on the front cover, 'LPB 1989', is not relevant to the book's contents.
F005-1-A2022.002/B005(04)	Item - Book 75: La Perouse Bay 1989-2003 1 lab book ; 26.35 x 20.64 cm <i>Scope and content:</i> Field book contains: ammonium and nitrate values; standing crop biomass at East Bay and Randy's Flats; goose dropping counts; Carex aquatilis grazed shoots; and possibly soil and toluene experiment. <i>Note [generalNote]:</i> Field notes recorded by [Jefferies, R.L.]
F005-1-A2022.002/B005(05)	Item - Book 76: La Perouse Bay 23 Apr.-23 Oct. 1993; 6 Mar.-16 Dec. 1994; 13 Jan.-11 May 1995 1 lab book ; 26.35 x 20.64 cm <i>Scope and content:</i> Field book contains: soil ammonium and nitrate values; fresh weights and dry weights of wood; number of seedlings; biomass data of several species; summary of changes in species composition; carbon and nitrogen analysis of dried plant leaves, soils, and plant tissues; biomass calculations (1993 and 1994); Bodega Bay analyses (Oct 18, 1994); Harvest 2 LECO analysis; and standing crop (i.e. Horseshoe core). <i>Note [generalNote]:</i> Field notes recorded by [Jefferies, R.L.]
F005-1-A2022.002/B005(06)	Item - Book 77: La Perouse Bay 2004 1 lab book ; 26.35 x 20.64 cm <i>Scope and content:</i> Field book contains various notes and jottings, including reading notes. No field observations present. <i>Note [generalNote]:</i> The title on the front cover, "Nematode Experiment, La Perouse Bay 1994" is not relevant to the book's contents.
F005-1-A2022.002/B005(07)	Item - Book 78: La Perouse Bay 4 Jun.-1 Aug. 1994 1 lab book ; 26.35 x 20.64 cm

	<p><i>Scope and content:</i></p> <p>Field book contains: seed bank analysis; soil salinity measurements; Carbohydrate calculations; Willow/ birch experiment; Carex aquatilis sampling sites; germination in potted plants and at control sites; Carbohydrate analysis; fresh and dry weights of defoliated bushes; C. aquatilis grazing/regrowth experiment; number of flowering shoots in "seed bank" pots; and seed count and biomass measurement for germination analysis.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Chang, Esther</p>		
F005-1-A2022.002/B006(01)	Item - Book 79: La Perouse Bay	19 Jun.-31 Jul. 1995	1 lab book ; 26.35 x 20.64 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: Tundra golf; Carex aquatilis grazing and re-growth experiment; standing crop measurements; preliminary notes and measurements for soil nitrification experiment; soil nitrogen measurements; salinity measurements; chlorophyll and soluble carbohydrate measurements; height measurements; Carbohydrate analysis; schedule for willow harvests and sampling; weights of C. aquatilis harvests; fresh and dry weights of shoots inside and outside [G. Peter Kershaw's] Rock Willow exclosures; and biomass of willow whole harvests.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Chang, Esther</p>		
F005-1-A2022.002/B006(02)	Item - Book 80: La Perouse Bay	17 Jun.-1 Aug. 1995	1 lab book ; 26.35 x 20.64 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: [G. Peter Kershaw's] exclosure inventory; rainwater collection circle project; initial soil measurements; Harvest 1 soil measurements; chlorophyll analysis (Betula, Salix lanata, Salix candida, and Salix planifolia); willow/birch leaf sample weights; Harvest 2 soil salinity measurements; likely Evaporation 1-3 experiments; and Harvest 2 soil moisture measurements.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Henry, Hugh A. L.</p>		
F005-1-A2022.002/B006(03)	Item - Book 81: Unknown location	ca. 2002	1 lab book ; 26.35 x 20.64 cm
	<p><i>Scope and content:</i></p> <p>Field book contains reading notes and no observational field data.</p> <p><i>Note [generalNote]:</i></p> <p>Field notes recorded by Jefferies, R.L.</p>		
F005-1-A2022.002/B006(04)	Item - Book 82: Churchill Northern Studies Centre	26 Apr.-16 Aug. 2007; 18 Apr.-15 Aug. 2008	1 notebook ; 23.7 x 18.8 cm
	<p><i>Scope and content:</i></p> <p>Field book contains: various temperature data at LPB and Palsa Marsh; weather observations; wind speed and direction; precipitation; base temperatures of C. aquatilis shoot; bird, mammal (carnivory and herbivory), and insect observations; flowering times phenology from 2007 - 2008; Fauna records for May 19th – August 3rd, 2008; Snow and ice charts/maps; Hot Tussock, Cold Feet (HTCF) hypothesis (004.tiff); Permafrost depth (cm); Tussocks no clipped depth?; Tussocks clipped depth?; Intertussock depth (cm); Dropping plots data?; 15N bags temperature data (air inside bag, soil, and outside air); Shoot lengths in grazed plots (cm); Canada Goose goslings hatching dates; Fresh and dry weights of</p>		

	plants(?) at LPB on July 24, 2007; Various helicopter survey observations; Soil moisture (m3 H2O/m3 soil) and temperature (°C) against date graph; Microbial biomass (mg microbial C g-1 dry soil) vs. date graph; Cumulative daily summertime (May – Aug) precipitation excess and deficit from 1943 to 2004 at Churchill, Manitoba; Redox (replicate readings); Dry weights at Camp Namuq (total shoot d(ept?), carex shoot l(ength?), roots, rhizome, shoot base, Andromeda, Trichoph?) <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.		
F005-1-A2022.002/B006(05)	Item - Book 83: Unknown location	2009	1 notebook ; 23.7 x 18.8 cm
	<i>Scope and content:</i> Field book contains: notes taken at unspecified meeting, likely related to International Polar Year; some planning notes for field work in Hudson Bay lowlands; temperature and water data observed in April 2008; other notes. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.		
F005-1-A2022.002/B006(06)	Item - Book 84: Churchill Northern Studies Centre	21 May-24 Jun. 2009	1 notebook ; 23.7 x 18.8 cm
	<i>Scope and content:</i> Field book contains: plant phenology; Churchill daily temperatures; graph of daily temperature variances 2009 vs. 4 year average (2005-2008); wind speed and direction; weather observations; possibly observations of lake ice phenology on Lake Winnipeg; migration date of snow geese; and bird counts. <i>Note [generalNote]:</i> Field notes recorded by Jefferies, R.L.		
F005-1-A2022.002/B006(07)	Item - Book 85: Unknown location	ca. 2003	1 notebook ; 23.5 x 18.6 cm
	<i>Scope and content:</i> Field book appears to contain notes related to Jefferies' appointment at the University of Groningen.		

Series F005-2 A2022.002/B007-B009: Personal

Date: 1979-2004 (date of creation)

Scope and content:

Series consists of a copy of Jefferies' dissertation; photograph slides which relate to the research of the Hudson Bay Project, including site, aerial, and microscopic photographs; and lecture slides primarily related to the teaching of a biology course on global climate change. Possibly BIO428 'Global Change Biology', taught at the University of Toronto, 2000-2001, and 2006-.

Physical description: 1 leather-bound book : 26 x 21 cm
1,841 photographs : col., b&w ; 35 mm

Access points:

- Photographs and art (documentary form)
- Textual records (documentary form)

Publication status:			
Published			
File / item list			
Reference code	Title	Dates	Physical description
F005-2-A2022.002/B007(01)	Item - [Dissertation] "Experimental Studies on the Distribution and Growth of Four Native Species in Relation to the Calcicole-Calcifuge Habitat" / R.L. Jefferies <i>Scope and content:</i> Item is a signed copy of his dissertation.	1962	1 leatherbound book ; 26 x 21 cm
F005-2-A2022.002/B007(02)	File - Slides : herbivory by geese, La Perouse Bay Snow Goose Project, Hudson Bay Project <i>Scope and content:</i> File consists of textual and photographic slides. Includes: lecture slides, "Herbivores as opportunists in a world of plenty: the ecological consequences" and infographics and photographs related to work on the herbivory by geese in subarctic and arctic low-lying coastal wetlands and tundra; photographs and infographics related to the La Perouse Bay Snow Goose Project, in cooperation with Queen's University, American Museum of Natural History and others (1979-1992); and photographs and infographics related to the Hudson Bay Project, in cooperation with AMNH, Ontario Ministry of Natural Resources and others (1993-2009).	[199- - 200-]	715 photographs : col. slides ; 35 mm
F005-2-A2022.002/B008(01)	File - HBP Seeds (Esther Chang) <i>Scope and content:</i> File consists of microscopic photography of seed flora of La Pérouse Bay, Manitoba. The seeds were sampled during the growing seasons of 1997 and 1998 and spring melt of 1998 and 1999. The results of the studies were published in the Canadian Journal of Botany Volume 78, Number 4 (April 2000).	1997-1998	74 photographs : col. slides ; 35 mm
F005-2-A2022.002/B008(02)	File - HBP Snow Goose Story <i>Scope and content:</i> File consists of site photographs and infographic slides related to the Hudson Bay Project.	[199- - 200-]	206 photographs : col., b&w slides ; 35 mm
F005-2-A2022.002/B008(03)	File - HBP : vegetation studies <i>Scope and content:</i> File consists of site photographs and infographic slides related to the Hudson Bay Project.	[199- - 200-]	31 photographs : col., b&w slides ; 35 mm
F005-2-A2022.002/B008(04)	File - HBP : invertebrates - Milakovic and RLJ <i>Scope and content:</i>	ca. 2001	23 photographs : col., b&w slides ; 35 mm

	File consists of lectures slides for the presentation, "Response of invertebrate populations to the habitat destruction triggered by the foraging activities of geese", by Jefferies and Brian Milkavokic. The study was published in the journal Ecoscience Vol. 8 (2001).		
F005-2-A2022.002/B008(05)	File - Tundra Landform Air-Ground Exclosure	1985-1995	37 photographs : col., b&w slides ; 35 mm
	<i>Scope and content:</i> File consists primarily of site photographs and aerial photographs, including photographs taken at Fort Sever, ON.		
F005-2-A2022.002/B008(06)	File - HBP : Jackie Ngai (ESA 02, 03)	ca. 2004	31 photographs : col., b&w slides ; 35 mm
	<i>Scope and content:</i> File consists of two sets of lecture slides: "Nitrogen and Phosphorus limitation in an Arctic saltmarsh: effects on plant growth and stoichiometry" (Jackie Ngai and Robert Jefferies), later published in Journal of Ecology 92 (2004); and "Nutrient limitation on plant growth and implications for herbivore forage in arctic marshes" (Jackie Ngai and Robert Jefferies).		
F005-2-A2022.002/B008(07)	File - Student Defense HBP Invertebrates - Effects	1997-1998	32 photographs : col. slides ; 35 mm
	<i>Scope and content:</i> File consists of lecture slides and site photographs.		
F005-2-A2022.002/B008(08)	File - Cereal Grain History	[199- - 200-]	18 photographs : b&w slides ; 35 mm
	<i>Scope and content:</i> File consists of infographic slides.		
F005-2-A2022.002/B008(09)	File - [Biology lectures 25 and 26 : population ecology]	[199- - 200-]	112 photographs : col., b&w slides ; 35 mm
	<i>Scope and content:</i> File consists of lecture slides on population ecology, "Characterizing populations" (Lecture 25) and "Growth of populations" (Lecture 26).		
F005-2-A2022.002/B008(10)	File - [Biology lecture 30 : community ecology]	[199- - 200-]	71 photographs : col. b&w slides ; 35 mm
	<i>Scope and content:</i> File consists of lecture slides on community ecology, "Species-richness and the regulation of community structure."		
F005-2-A2022.002/B008(11)	File - [Biology lectures 30, 31, and 32 : environmental change]	[199- - 200-]	109 photographs : col. b&w slides ; 35 mm
	<i>Scope and content:</i> File consists of lecture slides on environmental change: "Quaternary environments and environmental change" (Lecture 30 and 31), "Paleological record of vegetational change" (Lecture 31), "Deforestation with particular reference to tropical forests" (Lecture 31 and 32), and "The human impact on soil salinity and deforestation" (Lecture 32).		

F005-2-A2022.002/B008(12)	File - [Biology lectures 33, 34, and 35 : deforestation and global climate change] [199- - 200-] <i>Scope and content:</i> File consists of lecture slides on global climate change: "Deforestation with particular reference to tropical and Canadian forests" (Lectures 33 and 34), "Greenhouse effect and global warming" (Lecture 35), and "Global climate change" (Lecture 35).	127 photographs : col. b&w slides ; 35 mm
F005-2-A2022.002/B008(13)	File - [Biology lecture 36 : The Greenhouse Effect] [199- - 200-] <i>Scope and content:</i> File consists of lecture slides on "Greenhouse effect and global warming."	31 photographs : col. b&w slides ; 35 mm
F005-2-A2022.002/B008(14)	File - [Biology lecture : misc. : community ecology] [199- - 200-] <i>Scope and content:</i> File consists of miscellaneous lecture slides.	18 photographs : b&w slides ; 35 mm
F005-2-A2022.002/B008(15)	File - [Biology lecture : misc. ; climate, carbon and nitrogen] [199- - 200-] <i>Scope and content:</i> File consists of miscellaneous lecture slides.	19 photographs : col., b&w slides ; 35 mm
F005-2-A2022.002/B008(16)	File - [Biology lecture : misc. : competition and invasive] [199- - 200-] <i>Scope and content:</i> File consists of miscellaneous lecture slides.	18 photographs : col., b&w slides ; 35 mm
F005-2-A2022.002/B008(17)	File - [Biology lecture : misc. : species, interactions] [199- - 200-] <i>Scope and content:</i> File consists of miscellaneous lecture slides.	18 photographs : col., b&w slides ; 35 mm
F005-2-A2022.002/B008(18)	File - [Biology lecture : misc. : logging] [199- - 200-] <i>Scope and content:</i> File consists of miscellaneous lecture slides.	25 photographs : col., b&w slides ; 35 mm
F005-2-A2022.002/B008(19)	File - [Biology lecture : misc.] [199- - 200-] <i>Scope and content:</i> File consists of miscellaneous lecture slides.	126 photographs : col. b&w slides ; 35 mm
Series F005-3: Digital records <u>Date</u> : 2021 (accumulation) (date of creation)		

Scope and content:

Series consists of metadata information related to the Jefferies fonds, including item lists and related information; and digital copies of selected publications by Jefferies.

Physical description: 130 digital files (336.2 MB)

Access points:

- Electronic records (documentary form)

Immediate source of acquisition:

Electronic records were compiled and transferred by Dr. Peter Kotanen and Sherry Du.

Publication status:

Published

File / item list

Reference code	Title	Dates	Physical description
F005-3-A2022.002_df001	File - R.L. Jefferies metadata <i>Scope and content:</i> File consists of a digital copy of Jefferies' CV, ca. 2006, and documents listing his publications and the contents of the field books (Series 1).	2021	7 digital files (4.4 MB)
F005-3-A2022.002_df002	File - R.L. Jefferies publications <i>Scope and content:</i> File consists of PDF copies of selected publications.	2021	122 digital files (331.7 MB)