

Alan Austin fonds

Series 1. Seaweed Inventory Project

Acc. No: 1997-112

Sub-series 1. SIP reports

Box 1:

- 1.1 Adams, Robert W. "A study of growth, reproduction and competition in populations of *Iridaea cordata* (Turner) Bory (Rhodophyta) in Georgia Strait, B.C." University of Victoria, M.Sc. 1997.
- 1.2 Austin, Alan and Robert Adams. "Observations on the carrageenophytes *Iridaea cordata* (Turner) Bory and *Gigartina exasperata* Harvey and Bailey in the vicinity of Victoria, British Columbia: A preliminary report on aspects of utilization of Pacific Northwest red seaweed resources." University of Victoria, 1970.
- 1.3 Austin, Alan and Robert Adams. "Observations on the carrageenophytes *iridaea cordata* (Turner) Bory in the vicinity of Victoria, B.C. during 1971. University of Victoria, 1971.
- 1.4 Austin, Alan and Robert Adams. "Development of a method for surveying red algal resources in Canadian Pacific waters: First interim report." University of Victoria, June 30, 1972.
- 1.5 Austin, Alan and Robert Adams. "Development of a method for surveying red algal resources in Canadian Pacific waters: Second interim report." University of Victoria, November 7, 1972.
- 1.6 Austin, Alan and Robert Adams. "Development of a method for surveying red algal resources in Canadian Pacific waters: Annual report, 1972." University of Victoria, May 1, 1973. [Maps removed to drawer 12]
- 1.7 Austin, Alan and Robert Adams. "Red algal resource studies in Canadian Pacific waters: Annual report, 1973." University of Victoria, June, 1974. [Maps removed to drawer 12]
- 1.8 Austin, Alan and Robert Adams. "The development and implementation of survey techniques for inventory of some commercially useful red algae in Canadian Pacific waters: Progress report." University of Victoria, July 15, 1973.
- 1.9 Austin, Alan and Robert Adams. "The development and implementation of survey techniques for inventory of some commercially useful red algae in Canadian Pacific waters: Progress report." University of Victoria, November 15, 1973.
- 1.10 Austin, Alan and Robert Adams. "Red algal resource studies in Canadian Pacific waters: Carrageenophyte Inventory and Experimental/ Cultivation Phase 1974-75, Vol. I Text, Vol. 11 Appendices." University of Victoria, November 1975.

1.11 Austin, Alan and Robert Adams. "Potential yields of red alga *Iridaea cordata* (Turner) Bory (Gigartinales) in natural and artificial populations in the north-east Pacific." University of Victoria, 1977. File includes correspondence about publishing article in the IXth International Seaweed Symposium publication.

1.12 Austin, Alan and Robert Adams. "A study of the red alga *Iridaea cordata* (Turner) Bory to assess potential for its cultivation in Georgia Strait, B.C." University of Victoria, May 1979.

1.13 Austin, Alan and Robert Adams. "Aerial color and color infrared survey of marine plant resources" in *Photogrammetric Engineering and Remote Sensing*, 44, 4 (April, 1978): 469-480. File includes drafts and correspondence. Also includes a file of photographs and negatives of seaweeds titled, "NB: Select for Plate 3:1. Prism Photo Lab 2 UVic Keith McMillan" Photographs include: 14 negatives, 6x6 cm, b&w; 59 prints, assorted sizes, b&w; 21 negatives, 35 mm, col; 18 prints, 9x12 cm; 6 negatives, 35 mm, col; and 6 prints, 9x12 cm.

1.14 Austin, Alan and Robert Adams. Investigation of the red seaweed *Iridaea cordata* (Turner) Bory in British Columbia: A case study. University of Victoria, August, 1982. includes original diagrams used in text.

1.15 Seaweed utilization - illustrations, including 3 p. of colour photocopies of six products; and overhead of legend, "Georgia Strait, British Columbia: Algal Vegetation Map."

1.16 Popular articles, including manuscripts and correspondence, including:
Austin, A.P. "Pollution and the biologist." University of Victoria, n.d.; and Austin, Alan. "Seaweed: The hidden resource," in *The Concerned Canadian* 1, 2 (January 1978), 34.

1.17 Enquiry and requests, including general correspondence from readers about , Austin's publications.

1.18 Selected bibliography on seaweed resource utilization, 1971?

1.19 SIP References

Alan P. Austin and Barry Boettger. "*Furcellaria lumbricalis* (Hudson) Lamouroux: Case study of a fragile resource," in *Biology of economic algae*, ed. by I. Akatsuko, pp. 95-147. Catalogued for University of Victoria, Special Collections.

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Sub-series 2. SIP Survey films and photos

Box 2:

- 2.1 MachAir survey film, MA 547 + Goldstream, Sept 75 F/N
- 2.2 MachAir survey film, MA 551, Aug. 7 1972
- 2.3 MachAir survey film, MA 824, n.d.
- 2.4 MachAir survey film, MA 825 (Water Pen[etration] Film), n.d.

[contains also Austin acc. 2000-060]

Box 3:

- 3.1-5 B.C. air photographs for 1972-73 transect, ca. 125 prints, 25x25 cm, b&w.
- 3.6 MA 547, 23x23 cm, b&w, September 1975. Includes map noting flight lines on MA 547,551 and 553
 - 1-11 S.E. Denman Island
 - 15-34 N. Denman Island to Goose Spit
 - 35-44 Willemar Bluff to Cape Lazo
- 3.7 MA 547, 23x23 cm, b&w, September 1975.
 - 45-47, 50-73 unidentified
- 3.8 MA 551, 23x23 cm, col., August 7, 1972.
 - 1-14 S.E. Denman Island
 - 15-34 N. Denman Island to Goose Spit
- 3.9 MA 551, 23x23 cm, col., August 7, 1972.
 - 35-43 Willemar Bluff to Cape Lazo
 - 44-47, 49-72 unidentified (Comox to N. ?)
- 3.10 MA 551, 23x23 cm, col., August 7, 1972.
 - 73-82, 84-85 Cape Lazo to Little River
 - 86-98 Seal Islets to Sandy Island (1:5000)
 - 99-116 Seal Islets to Sandy Island (1:2500)
- 3.11 MA 551, 23x23 cm, col., August 7, 1972.
 - 117-121, 123-143 Cape Lazo to Little River
- 3.12 MA 553, 23x23 cm, infared, n.d.
 - 1-23 Denman Island and Willemar Bluff to Williams Beach

- 3.13 MA 553, 23x23 cm, infared, n.d.
33-64 Denman Island and Willemar Bluff to Williams Beach
- 3.14 MA 553, 23x23 cm, infared, n.d.
65-92 Cape Lazo to Little River and Seal Islets to Sandy Island
- 3.15 MA 553, 23x23 cm, infared, n.d.
93-136 Cape Lazo to Little River and Seal Islets to Sandy Island
- 3.16 MA 824, 23x23 cm, col., July 21, 1974. Includes map noting flight lines.
1-14 Powell River and Photo Data
15-25 Hernando Island
- 3.17 MA 824, 23x23 cm, col., July 21, 1974.
31-37 Cortes, Marina Island
38-45 Quadra Island
- 3.18 MA 824, 23x23 cm, col., July 21, 1974.
46-61 Campbell River to Oyster Bay
62-72 Oyster Bay to Kuhushan Point
- 3.19 SIP ring binder 1: No.1-9, A-M. 358 negs, b&w, 35 mm; and 12 contact sheets.
- 3.20 SIP 1-mg binder 2: No. 1-30. 392 negs, 35 mm, col.
- 3.21 SIP prints No.1-9. 78 prints, b&w, 9x12 cm mounted prints. Negatives in ring binder 1.
- 3.22 SIP prints, No.1-8. 98 photos, 9x12 cm, col. mounted on 23x39 cm cardboard with cello tape.
Negatives in ring binder 2.
- 3.23 SIP prints, No. 9-17. 86 photos, 9x12 cm, mounted. Negatives in ring binder 2.
- 3.24 SIP prints, 18-25. 72 photos, col, 9x12 cm, mounted. Negatives in ring binder 2.
- 3.25 SIP prints 26-30. 51 photos, col, 9x12 cm, mounted. Negatives in ring binder 2.
- 3.26 SIP matched negatives and contact sheets, I-V.
- 3.27 SIP unmatched b&w negatives. 17 negatives; 1 contact sheet.
- 3.28 SIP unmatched color negatives. 11 negs, 6x6 cm; 126 negs, 35 mm.

Box 4:

- 4.1 Air-photos N. end Georgia Strait. 69 air photos, 35 mm; 34 slides, 6x6 cm, col, April 1973. Only one set identified as Quadra Island.

- 4.2 SIP ring binder: miscellaneous slides, 1972-1977. 271 slides.
- 4.3 Section 2 Harvested Area, Holland Pt. - Finlayson Pt. 54 photos, 9x12 cm, col., mounted on 23x39 cm cardboard.
- 4.4 Section 3 (R) Harvested Area. 66 photos, 9x12 cm, col., mounted on 23x39 cm cardboard.
- 4.5 Section 4 (R) Harvested Area. 8 photos, 9x12 cm, col., mounted on 23x39 cm cardboard.
- 4.6 Section 11 Unharvested Area. 67 photos, 9x12 cm, col., mounted on 23x39 cm cardboard.
- 4.7 Section 12 Unharvested Area. 7 photos, 9x12 cm, col, mounted on 23x39 cm cardboard.
- 4.8 Section 13 Unharvested Area. 70 photos, 9x12 cm, col, mounted on 23x39 cm cardboard.
- 4.9 Section 20 Unharvested Area. 49 photos, 9x12 cm, col, mounted on 23x39 cm cardboard.
- 4.10 Growth Block 1. 76 photos, 9x12 cm, col., mounted on 23x39 cm cardboard.
- 4.11 Growth Block 2. 14 photos, 9x12 cm, col, mounted on 23x39 cm cardboard.
- 4.12 Growth Blocks General. 34 photos, 9x12 cm, col, mounted on 23x39 cm cardboard.
- 4.13 General Beach. 19 photos, 9x12 cm, col, mounted on 23x39 cm cardboard.
- 4.14 Iridaea photo's. 42 photos, 9x12 cm, b&w, mounted on 23x39 cm cardboard; and 12 photos, 12x20 cm, b&w, stapled to 23x39 cm cardboard.

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Sub-series 3. SIP correspondence and field notes

Box 4 (cont'd):

- 4.15 Correspondence: Austin, 1970-71.
- 4.16 Correspondence: Austin, 1971.
- 4.17 Correspondence: Austin, 1972.
- 4.18 Correspondence: Austin - Adams, 1971-72.
- 4.19 Correspondence: B.C. Algae, 1971-72.
- 4.20 Correspondence: Budget, 1974-75.
- 4.21 Correspondence: Fisheries, 1970-71.
- 4.22 Correspondence: Fisheries, 1972-75.
- 4.23 Correspondence: Machair, 1972-75.
- 4.24 Correspondence: Marine Plants Experimental Station, 1970-72.
- 4.25 Correspondence: Marine Resources Branch, 1971-79.
- 4.26 Correspondence: UVic Administration, 1970-75.

Box 5:

- 5.1 SIP diary, May 3 - July 27, 1973.
- 5.2 SIP diary, July 28 - Nov 2, 1973.
- 5.3 SIP diary, May 23 - August 27, 1974. Contains loose material.
- 5.4 Prefield data, 1972
- 5.5 Field notes & raw data, 1972
- 5.6 Rough biomass data, Kye Bay, 1972.
- 5.7 Rough transect data #1-11, 1972. Includes 10 B.C. Government air photos, 25x25 cm, b&w.
- 5.8 Rough transect data, #12-22, 1972.

- 5.9 Finished stencils, sec. 1-12, 1972.
- 5.10 Finished stencils, sec. 13-22, 1972.
- 5.11 Iridaea collection record, Beacon Beach, 1972.
- 5.12 Tide data & charts, 1972.
- 5.13 Vegetative observations, intertidal & from boat, 1972.
- 5.14 Rough tables, 1972.
- 5.15 Air photo data, 1972.
- 5.16 Cover pages, 1972.
- 5.17 Iridaea measurements, Beacon Beach, 1972.
- 5.18 Iridaea collection record.
- 5.19 Sled tows, summer, 1972.
- 5.20 Rough biomass transects, 1973.
- 5.21 Species synopses I, 1973.
- 5.22 Species synopsis II, 1973.
- 5.23 Rough written notes: progress report, 1973.
- 5.24 Rough biomass graphs & calculations, 1973.
- 5.25 Rough transect profile, 1973.
- 5.26 Iridaea analysis, 1973.
- 5.27 Field notes & raw data, 1973.
- 5.28 Biomass denuded strip, 1973.
- 5.29 Pre field calculations, 1973.
- 5.30 Tide data & charts, 1973.

Box: 6

- 6.1 Field notes & raw data, 1974-75.

- 6.2 Rough species synopsis, 1974-75.
- 6.3 Rough tide data & charts, 1974-75.
- 6.4 Rough transect profiles, 1974-75.
- 6.5 Frond size analysis, 1974-75.
- 6.6 Rough graphs & tables, 1974-75.
- 6.7 Species list & ecological data per sample plot, 1974-75.
- 6.8 B.C. Algae, April 1, 1972 - March 31, 1973. Includes drafts of annual report, and outlines of Study No.1, 3-8.
- 6.9 Study No. 2.
- 6.10 Rough draft - fisheries report.
- 6.11 Case Study, 1.
- 6.12 Case Study, 2.
- 6.13 Cassette tapes from the 9th International Seaweed Symposium. 10 tapes (7/8, 9/10, 13/14 in duplicate); 1 tape of PISEES 1977; 1 unlabeled tape, apparently of a telephone interview of Alan Austin, sometimes with both sides of the conversation, at other times only his replies.

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Sub-series 4. SIP reference literature

Box 7:

- 7.1 Author Index
- 7.2 Subject Index
- 7.3 Subject index: File 1, Agar
- 7.4 Subject index: File 2, Algin
- 7.5 Subject index: File 3, Carrageenin
- 7.6 Subject index: File 4, Chemistry and Contents (General)
- 7.7 Subject index: File 5, Chemistry and Contents (Browns) (folder 1)
- 7.8 Subject index: File 5, Chemistry and Contents (Browns) (folder 2)
- 7.9 Subject index: File 6, Chemistry and Contents(Reds)
- 7.10 Subject index: File 7, Cultivation of Seaweed in Field
- 7.11 Subject index: File 8, Culture (General)
- 7.12 Subject index: File 9, Culture (Macro Algae)

Box 8:

- 8.1 Subject index: File 10, Culture (Micro Algae)
- 8.2 Subject index: File 11a, Ecology (General) N.E. Pacific
- 8.3 Subject index: File lib, Ecology (Other- not local) (folder 1)
- 8.4 Subject index: File lib, Ecology (Other- not local) (folder 2)
- 8.5 Subject index: File 12, Ecology of Browns
- 8.6 Subject index: File 13, Ecology of Reds
- 8.7 Subject index: File 14, Growth and Development (folder 1)
- 8.8 Subject index: File 14, Growth and Development (folder 2)

- 8.9 Subject index: File 15, Harvest Methods; Effects and Processes
- 8.10 Subject index: File 16a, Seaweed Resources of B.C. (Folder 1)
- 8.11 Subject index: File 16a, Seaweed Resources of B.C. (Folder 2)
- 8.12 Subject index: File 16b, Seaweed Resources (Other Locations)

Box 9:

- 9.1 Subject index: File 17, Statistical Analysis of Communities
- 9.2 Subject index: File 18a, Survey of Seaweed Beds without Photographic Techniques (folder 1)
- 9.3 Subject index: File 18a, Survey of Seaweed Beds without Photographic Techniques (folder 2)
- 9.4 Subject index: File 18b: Survey of Seaweed Beds with Photographic Techniques
- 9.5 Subject index: File 19, Utilization of Seaweed Resources
- 9.6 Subject index: File 20a, as Fodder for Domestic Land Animals
- 9.7 Subject index: File 20b, Manure (Fertilizer) for Plants
- 9.8 Subject index: File 20c, by Humans and in General + Press + Industry Information
- 9.9 Subject index: File 20d, for Maricultured Animals
- 9.10 Subject index: File 21a, Use of Seaweed Extracts; Medical, Antibiotic, Radioactive, etc.
- 9.11 Subject index: File 21b, "-" Other
- 9.12 Subject index: File 22, Local Oceanographic Data
- 9.13 Subject index: File 23, Iridaea and Gigartina references.
- 9.14 Subject index: File 24a, Seaweed Industry - Pacific
- 9.15 Subject index: File 24b:, Seaweed Industry - Atlantic (folder 1)
- 9.16 Subject index: File 24b:, Seaweed Industry - Atlantic (folder 2)
- 9.17 Subject index: File 24c, Seaweed Industry - General
- 9.18 Subject index: File 25, Taxonomy of Pacific Coast Species
- 9.19 Subject index: File 26, Miscellaneous & References

9.20 Subject index: File 27, Biomass, Productivity.

9.21 Library Communiques.

Box 10: Unsorted Literature

Map Drawer 12:

MD12.1 Annual Report 1972: 5 Algal Vegetation Maps Denman Island - Kye Bay and figures A1-A2, 1975; Annual Report 1973: Figs. A3-5.

MD12.2 Fig. 6 - 1974: Coastline of Southern Queen Charlotte Strait with 1974 survey transect locations.

MD12.3 Fig. 7 - 1973: Coastline of Northern Georgia Strait with 1973 survey transect Locations and proposed flight lines for air photography in 1974.

MD12.4 Marine chart: L-3001 (Vancouver Island).

MD12.5 Marine chart: 3509 (Plans in the Strait of Georgia).

MD12.6 Marine chart: 3565 (Discovery Passage).

MD12.7 Marine chart: 3569 (Broughton Strait).

MD12.8 Marine chart: 3579 (Burrard Inlet to Discovery Passage).

MD12.9 Marine chart: 3590 (Ballenas Island to Cape Lazo).

MD12.10 Marine chart: 3591 (Cape Lazo to Discovery Passage).

MD12.11 Marine chart: 3594 (Discovery P, Toba Inlet & Connecting Channels).

MD12.12 3596 (Port Harvey to Queen Charlotte Strait).

MD12.13 Maps: 2 Interim Forest Cover Series 92F/F.

MD12.14 Maps: Geological Survey of Canada Surficial Geology 27-1963 (Nanaimo) and 32-1960 (Courtenay).

Map Drawer 13:

MD13.1-2 79 sketches of Vegetation Patterns.

MD13.3 Phenology graphs.

MD13.4 Duplicate Algal Vegetation maps.

MD13.5 Duplicate Algal Vegetation maps.