

Accession No.: 2003-43

PROCESSING RECORD
SCRIPPS INSTITUTION OF OCEANOGRAPHY ARCHIVES

North, Wheeler J. 1922-2002

Wheeler J. North Papers, 1953-2002

Physical Description: 17mss, 1/2mss, 1 shoe box, 25 oversize, 33,518 slides (b&w and color and infrared) (35 mm) in slide cabinet

Description: The accession includes manuscripts for scientific papers, research proposals, reports lists of slides for lectures, and other papers. The accession includes 24 boxes of pressed seaweed collected along the coast of the Pacific Ocean from California to Mexico by Wheeler J. North, together with his curatorial records on the collection. The pressed seaweed and slide series include particularly strong documentation of Diablo Canyon, La Jolla and Leucadia areas. The accession includes microscope slides of algae. The bulk of the accession consists of photographs taken or collected by Wheeler J. North. This includes some slides and films taken by Conrad Limbaugh. North's kelp aerial surveys collection of images, over 20,000 35mm aerial slides, covers a 28 year period, from September 1966 to 1994. These images primarily represent kelp canopies in southern California with greatest emphasis on kelp beds of San Diego and Orange counties. These images are accompanied by indexes and metadata with precise date and geographical locations. The accession also includes 35mm lecture slides, slides on specific subjects, and a collection of slides arranged chronologically. The accession includes photographic prints, negatives and transparencies, mounted color transparencies, lantern slides and several original films.

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Diving

Marine biology California

Giant kelp

Marine algae California

Marine ecology California

Kelp bed ecology California

Limbaugh, Conrad

SIO MC#100

Wheeler J. North, 1922-2002

Papers, 1953-2002

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Box	Folder Title
	Series: Papers
1	Liferaft, Avon (n.d.)
	LCM6 Information (n.d.)
	Publications (n.d.)
	Flow Rate Requirements for the Hemi dome (n.d.)
	Proposal Substitute Studies Leucadia Kelp Bed, 1978-1980
	Aquil System at Kerckhoff Marine Laboratory, August 1978
	Navigation (Boats), Private Aids to Applications, blank and completed forms, September 13, 1978
	Honolulu Symposium, April 2-6 1979. Possibilities of Marine Biomass Production as an alternate energy source
	Gerard, Valrie: Results of Kelp Population Studies on the Test Farm, May 1979
	Results of Growth Measurements and Related Studies on the Test Farm, May-July 1979, Valrie Gerard
	DOE Proposal July 30, 1979; Additional justification
	Recent Research on Biomass Production by Freshwater & Marine Macrophytes, ACS Symposium Series, September 20, 1979; Wheeler North, Valrie Gerard, Jim Kuwabara
	UNITAR Conference, Montreal, November 1979, Marine Macroscopic Plants as Biomass Sources; Revised April 3, 1980, Biomass from Marine Macroscopic Plants; submitted to <u>Solar Age</u>
	DOE Proposal 1979-80

1

General Electric Quarterly Reports for January-March 1980
(original & revised)

Manley-North Southern California Edison Company, March 1980
Research Proposal

General Electric Quarterly Reports for April-June 1980, July-
September 1980

Bio-Energy Symposium, Atlanta, April 1980, "Kelp Growth
Experiments"

Wheeler North, Valrie Gerard, Kim Kuwabara May 1980; Farming
Macrocystis at Coastal & Oceanic sites

Wheeler North, Valrie Gerard, Jim Kuwabara May 1980, Farming
Macrocystis at Coastal & Oceanic Sites. Revised June 1980;
Bamfield, Vancouver Islands. In Synthetic & Degradation
Processes in Marine Macrophytes (1982); Editor L.M. Srivastava,
Walter de Gruyter, Berlin, 247-264

Golden Colorado, June 1979 (SERI) Biological Investigations of
Marine Forms after Biomass Productions

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Enhancement and Rehabilitation of Kelp Beds, Vancouver, July
1980, Wheeler North

Sweden, 10th International Seaweed Symposium, Kelp Growth On
An Ocean Farm in Relation to Fertilizing, Valrie Gerard & Wheeler
North, August 1980

Sweden, 10th International Seaweed Symposium, Micronutrient
Uptake by Juvenile Macrocystis pyrifera (L.) S. Manley & Wheeler
North, August 1980. 10th International Seaweed Symposium
Proceedings, Editor Tore Levring

Sweden 10th International Seaweed Symposium, Experimental
Fertilizing of Coastal Macrocystis Beds; Wheeler North, Valrie
Gerard, R. McPeak, August 1980. 10th International Seaweed
Symposium Proceedings, Editor Tore Levring: 10, 613-618

Kuwabara, Jim-borrowed culturing equipment,
August 1980-September 1981

Proposal to General Electric Company Yield & Biological Studies,
September 1980

2

Gerard, Valrie A. Nitrogen Budget Experiment, September 1980

Species List, Test Farm, September 8, 1980; K. Rossberg

General Electric Monthly Reports for January, February, April, May, July, August, October, November, December 1980

Buoyancy & Drag of Macrocystis; Valrie Gerard, R. Berthold, J. Monical, T. Stephan (V.6-original), December 1980

Gerard: Kelp Farm Project-Biological Information & Research, 1981-ETF

1981 Proposal for Kelp Yield Experiments at the USC Marine Science Center-Catalina Island

General Electric Monthly Reports for January, February, March, April, May, June 1981

Publications, Marine Biomass Program, since January 1981

Manley, Steven; Iron Uptake & Translocation by Macrocystis pyrifera, submitted to Plant Physiology, February 19, 1981, revised April 24, 1981; Plant Physiology (1981) V. 68, 914-918

Hemidome, Field Activities Chart (blank) March 29, 1981

Proposal, April 1981, General Electric, Kelp Study-Catalina Island

Biomass Production in Oceanic Settings-A Progress Report, Wheeler North, June 1981; Marine Technology Society, Washington D.C.

General Electric Monthly Report for July 1981

General Electric Monthly Report for August, September, October 1981

Gerard, Valrie. September 1981, Growth & Utilization of Internal Nitrogen Reserves by the Giant Kelp Macrocystis pyrifera in a low Nitrogen Environment; Marine Biology volume 66, 27-35 (Published 1982)

Environmental Considerations Involved in Farming Macrocystis; S. Manley, Valrie Gerard, L. Anderson, Jim Kuwabara & Wheeler North, September 1981

- 2 Gerard, Valrie. November 1981, In Situ Rates of Nitrate Uptake by Giant Kelp (Macrocystis pyrifera (L.) C. Agardh): Tissue Differences, Environmental Effects & Predictions of Nitrogen-Limited Growth (Journal Experimental Marine Biology Ecology, 1982, volume 62 pp. 211-224)
- General Electric Monthly Report for November 1981, January 1982
- X-Ray Fluorescence Analyses 1982
- 3 Hemidome Flow Studies, Discharge Dye Studies-Valrie A. Gerard (February 23 & 24 in February 1982, General Electric Progress Report)
- General Electric Monthly Report for February, March, April 1982
- A re-examination of the "Composition of Sieve Tube Sap from Macrocystis pyrifera (Phaeophyta)," Manley, Steven (submission to Journal of Phycology, April 1982 (rejected June 1982, accepted October 1982) Journal of Phycology volume 19, 119-121 (1983)
- Gerard, Valrie A., Publications with K. Mann, Curriculum Vitae, Lyrics, April 1982
- Hemidome Information, Test Farm dates, April 27, 1982
- General Electric Monthly Report for May, June 1982
- Nitrate DT Experiment Table, May 10, 1982
- Kuwabara, James S.; Micronutrients & kelp cultures: Evidence for cobalt and manganese deficiency in Southern California deep seawater; Science June 11, 1982, Volume 216, pp. 1219-1221
- General Electric Monthly Report for July, 1982
- Proposal, Kelco Company, Kelp Growth & Nutrition Studies, August 1982, Wheeler North & Valrie Gerard
- General Electric Monthly Report for August, September 1982
- General Electric Monthly Report for October, November 1982
- North, Wheeler J., Curriculum Vitae, November 1982

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Hemidome Observations November 9, 12, 15, 23, 29; December 6 1982

Gerard, Valrie, et al., November 1982, Effects of harvesting on growth of giant kelp, Macrocystis pyrifera (Phaeophyta; Laminariales sulum. Phycologia)

Physiological Bases of Kelp Growth; Manley, Steven; SCCWRP, January 1983, Revised March 1983 & September 1983

Carbon Allocation in Macrocystis: I. Intrinsic Metabolic Variability, Arnold, Keith E. & Manley, Steven L., February 1983

Gerard, Valrie-April 1983, Ecological Observations on a Unique, Branching Form of Macrocystis pyrifera (L.) C. Agardh in New Zealand (submitted to Botanica Marina, April 1983)

China 11th International Seaweed Symposium, Influences of Macronutrients and Water Temperatures on Summertime Survival of Macrocystis canopies, Wheeler North & R.C. Zimmerman, June 1983

China 11th International Seaweed Symposium, Measuring growth, production, and yield of the giant kelp, Macrocystis pyrifera, Valrie A. Gerard & Wheeler North; June 1983

Culturing and Utilization of Large Brown Seaweed (kelps), Wheeler North, Oceans 1983, August 1983

Carbon allocation in Macrocystis pyrifera (L.) C. Ag. I. Intrinsic Variability in Photosynthesis and Respiration; Arnold, Keith and Manley, Steven, September 1983-Submission with Proposal; Submission November 1983-Revision to Journal of Phycology

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Quarterly Progress Report, July 1-September 30, 1976, Marine Farm Project

Quarterly Progress Report, July 1-September 30, 1976, Marine Farm Project

Quarterly Progress Report, July 1-September 30, 1976, Marine Farm Project

Quarterly Progress Report, July 1-September 30, 1976, Marine Farm Project

- 4
- Virginia Symposium, June 1978. 1st Revision, 2nd Revision-Trace Metals in Giant kelp, Macrocystis, American Journal of Botanicals, April 1980
- Rensselaer Symposium, June, 1978; Progress in Studies of Oceanic Production of Biomass
- Munich Symposium, August 1978-Adverse Factors Affecting Giant Kelp & Associated Seaweeds
- “A General Description of Macrocystis” Handbook of Solar Resources, October 22, 1978
- Santiago Symposium, November 1978, Evaluation, Management, and Cultivation of Macrocystis Kelp forests
- “The Giant Kelp, Macrocystis: A Potential Producer of Biomass for Energy”-Biosources Digest, March 1979
- San Diego Symposium March 1979. Experimental Cultivation of Giant Kelp in Oceanic Environments
- Micronutrient Uptake & Translocation by Macrocystis pyrifera (Phaeophyta) (Submitted to Journal of Phycology, October 1981) (resubmitted March 1982, April 1983) (Accepted July 1983)
- Marine Farming the Coastal Zone: Chemical & Hydrographic Considerations; Barcelona, Cummings, Lieberman, Fastenau & Wheeler North; February 1982, California Cooperative Fisheries Investigation
- The Sea Urchin Problem; A Need for Separating the Effects of Temperature and Nutrients-North, Wheeler, SCCWRP, January 1983, revised March 1983 and September 1983
- Mooring-Catalina, May 4, 1983
- General Electric Monthly Report for January, February, March, April, May, June 1983
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- Radio Station License & Application, September 1, 1983
- General Electric Monthly Report for July, August, September, October, November 1983

Genera Index

5 Index cards of various Genera

Specimens

6 Specimen Subject: June 16, 1964, Mussel Point with Beach Rocky Intertidal
Boxes 1-3 (3 boxes)

Specimen Subject: June 25, 1964, Stillwater Cove
Box 4

Specimen Subject: June 29, 1964, Corona Del Mar, South Arch Rock
Boxes 5-6 (2 boxes)

Specimen Subject: June 30, 1964, Whites Point, Rocky Intertidal (3 boxes)
Boxes 7-9

7 Specimen Subject: July 9 Pescadero Point, Rocky Intertidal (2 boxes)
Boxes 10-11

Specimen Subject: July 11 1964, Carmel Point, Rocky Intertidal
Box 12

Specimen Subject: July 12, 1964 Coll. Hollen-1 mile No Little San River
Box 13

Specimen Subject: July 20, 1964, La Jolla
Box 14

Specimen Subject: Acetabularia penicillium, Bimini December 1975
Box 15

Specimens-algae

3 Subject: Alariaceae alaria marginata

Subject: Alariaceae egregia laevigata

Subject: Alariaceae egregia menziesii

Specimens-algae (continued)

- 3 Subject: Alariaceae eisenia arborea
Subject: Alariaceae pterogophora Californica
Subject: Anacapa Island
Subject: Avila cryptopleura violacea
- 4 Subject: Bangiaceae porphyra lanceolata
Subject: Bangiaceae porphyra perforata
Subject: Bangiaceae porphyra pulchra
Subject: Bangiaceae porphyra sp.
Subject: Bangiaceae porphyrella gardneri
Subject: Barn Kelp
Subject: Bendix Reef
Subject: Bering Sea Kelp
Subject: Bodega Bay kelp
Subject: Bryopsidaceae bryopsis corticulans
Subject: Bonnemaisoniaceae bonnemaisonia geniculata
Subject: Bonnemaisoniaceae bonnemaisonia nootkana
Subject: Carmel submarine canyon
Subject: Ceramiaceae antithamnion sp.
Subject: Ceramiaceae callithamnion pikeanum
Subject: Ceramiaceae centroceras clavulatum
Subject: Ceramiaceae ceramium eatonianum
Subject: Ceramiaceae griffithsia pacifica kylin

Specimens-algae (continued)

- 4
- Subject: Ceramiaceae microcladia borealis
 - Subject: Ceramiaceae microcladia californica
 - Subject: Ceramiaceae microcladia coulteri
 - Subject: Ceramiaceae platyhamnion pectinatum
 - Subject: Ceramiaceae pleonosporum dasyoides
 - Subject: Ceramiaceae ptilota densa
 - Subject: Ceramiaceae ptilota filicina
 - Subject: Ceramiaceae spermothamnion snyderae
 - Subject: Chaetangiaceae gloiophloea confusa
 - Subject: Chaetangeae sp.
- 5
- Subject: Cladophoraceae cladophora graminii
 - Subject: Cladophoraceae cladophora graminea Collins
 - Subject: Cladophoraceae cladophora trichotoma
 - Subject: Cladophoraceae chaetomorpha aerea
 - Subject: Cladophoraceae spongomorpha coalita
 - Subject: Codiaceae codium cuneatum
 - Subject: Codiaceae codium fragile
 - Subject: Codiaceae codium setchellii
 - Subject: Codiaceae codium setchellii Gardner
 - Subject: Codiaceae codium sp.
 - Subject: Corallinaceae bossiella sp.
 - Subject: Corallinaceae coralline

Specimens-algae (continued)

- 5 Subject: Corallinaceae coralline gracilis
Subject: Corallinaceae corallina officinalis linnaeus
Subject: Coralliniaceae lithothrix aspergillum
Subject: Coralliniaceae melobesia mediocris
Subject: Corona Del Mar
Subject: Cornyophloeaceae leathesia difformis
Subject: Cornyophloeaceae leathesia nana
Subject: Cornyophloeaceae petrospongium rugosum
- 6 Subject: Cryptonemiaceae cryptonemia obovata
Subject: Cryptonemiaceae cryptonemia sp.
Subject: Cryptonemiaceae grateloupia schizophylla
Subject: Cryptonemiaceae grateloupia sp.
Subject: Cryptonemiaceae halymenia schizymenioides
Subject: Cryptonemiaceae halymenia coccinea
Subject: Cryptonemiaceae halymenia sp.
Subject: Cryptonemiaceae prionitis andersonii
Subject: Cryptonemiaceae prionitis australis
Subject: Cryptonemiaceae prionitis cornea
Subject: Cryptonemiaceae prionitis lanceolata
Subject: Cryptonemiaceae prionitis linearis
Subject: Dasyaceae dasya pedicellata
Subject: Dasyaceae rhodoptilum densum

Specimens-algae (continued)

- 6 Subject: Davenport
- 7 Subject: Delesseriaceae botryoglossum
- Subject: Delesseriaceae acrosorium uncinatum
- Subject: Delesseriaceae cryptopleura sp.
- Subject: Delesseriaceae cryptopleura violacea
- Subject: Delesseriaceae delesseria decipiens
- Subject: Delesseriaceae desselaria sp.
- Subject: Delesseriaceae hymenena
- Subject: Delesseriaceae hymenena multiloba
- Subject: Delesseriaceae membranoptera sp.
- Subject: Delesseriaceae nienburgia andersoniana
- Subject: Delesseriaceae nitophyllum northii
- Subject: Delesseriaceae phycodrys setchellii
- Subject: Delesseriaceae polyneura latissima
- Subject: Delesseriaceae polyneura sp.
- Subject: Derbesiaceae derbesia marina
- Subject: Desmarestiaceae desmarestia herbacea
- Subject: Desmarestiaceae desmarestia latifrons
- Subject: Desmarestiaceae desmarestia linearis
- Subject: Desmarestiaceae desmarestia munda
- Subject: Desmarestiaceae desmarestia sp.
- Subject: Desmarestiaceae desmarestia tabacoides

Specimens-algae (continued)

- 7 Subject: Desmarestiaceae desmarestia veridis
- 8 Subject: Diablo Bay
- 9 Subject: Dictosiphonaceae coilodesme californica
- Subject: Dictosiphonaceae coilodesme crassa
- Subject: Dictyotaceae dictyota binghamii
- Subject: Dictyotaceae dictyota flabellate
- Subject: Dictyotaceae dictyota sp.
- Subject: Dictyotaceae dictyopertis sp.
- Subject: Dictyotaceae dictyopertis zonariodes
- Subject: Dictyotaceae dictyopertis
- Subject: Dictyotaceae pachydictyon coriaceum
- Subject: Dictyotaceae padina sp.
- Subject: Dictyotaceae taonia lennebackerae
- Subject: Dictyotaceae zonaria farlowii
- Subject: Dumontiaceae cryptosiphonia woodii
- Subject: Dumontiaceae farlowia crassa
- Subject: Dumontiaceae leptocladia binghamii
- Subject: Dumontiaceae pikea californica
- Subject: Dumontiaceae pikea pinnata
- Subject: Dumontiaceae weeksia reticulata
- Subject: Ectocarpaceae ectocarpus granulosoidea
- 10 Subject: Encoeliaceae endurachne sp.

Specimens-algae (continued)

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Subject: Endocladaceae endocladia muricata

Subject: Erythropeltidaceae smithora naiadum

Subject: Fucaceae fucus fuccatus

Subject: Fucaceae hesperophycus harveyanus

Subject: Fucaceae pelvetia fastigiata

Subject: Fucaceae pelvetiopsis limitata

Subject: Gelidiaceae gelidium cartilagineum

Subject: Gelidiaceae gelidium coulteri

Subject: Gelidiaceae gelidium nudifrons

Subject: Gelidiaceae gelidium pusillum

Subject: Gelidiaceae gelidium sp.

Subject: Gelidiaceae pterocladia sp.

11

Subject: Gigartinaceae gigartina agardhii

Subject: Gigartinaceae gigartina californica

Subject: Gigartinaceae gigartina caripubika

Subject: Gigartinaceae gigartina corymbifera

Subject: Gigartinaceae gigartina harveyana

Subject: Gigartinaceae gigartina canaliculata

Subject: Gigartinaceae gigartina leptorhyachos

Subject: Gigartinaceae gigartina papillata

Subject: Gigartinaceae gigartina serrata

Subject: Gigartinaceae gigartina spinosa

Specimens-algae (continued)

- 11 Subject: Gigartinaceae gigartina volans
Subject: Gigartinaceae iridophycus flaccidum
Subject: Gigartinaceae iridophycus lineare
Subject: Gigartinaceae rhodoglossum affine
Subject: Gracilariaceae gracilariopsis sjoestedii
Subject: Grateloupiaceae
Subject: Half Moon Bay
Subject: Heterochordariaceae heterochordaria abietina
- 12 Subject: Imperial Beach
Subject: Kallymeniaceae callocolax neglectus
Subject: Kallymeniaceae callopyllis firma
Subject: Kallymeniaceae callopyllis flabellulata
Subject: Kallymeniaceae callopyllis obtusifolia
Subject: Kallymeniaceae callopyllis pinnata
Subject: Kallymeniaceae callopyllis sp.
Subject: Kallymeniaceae callopyllis violacea
Subject: Kallymeniaceae erythrophyllum delesserioides
Subject: Kallymeniaceae kallymenia pacifica
Subject: Kibesillah
Subject: Laminariaceae agarum fimbriatum
Subject: Laminariaceae costaria costata
Subject: Laminariaceae laminaria andersonii

Specimens-algae (continued)

- 15 Subject: *Macrocystis pyrifera*
- 16 Subject: Morro Rock
- Subject: *Nemalionaceae cumagloia andersonii*
- Subject: *Nemalionaceae nemalion elminthoides*
- Subject: *Nemastomaceae schizymenia dawsonii*
- Subject: *Nemastomaceae schizymenia pacifica*
- Subject: *Nemastomaceae schizymenia sp.*
- Subject: Nutt plants
- 17 Subject: Papalote Bay
- Subject: *Phylloporaceae ahnfeltia plicata*
- Subject: *Phylloporaceae gymnogongrus leptophyllus*
- Subject: *Phylloporaceae gymnogongrus linearis*
- Subject: *Phylloporaceae gymnogongrus platyphyllus*
- Subject: *Phylloporaceae phyllophora clevelandii*
- Subject: *Phylloporaceae stennogramme interrupta*
- Subject: *Plocamiaceae plocamium cartilagenium*
- Subject: *Plocamiaceae plocamium violaceum*
- Subject: Point Conception
- Subject: Point Loma
- 18 Subject: *Punctariaceae colpomenia peregrina*

Specimens-algae (continued)

18

Subject: Punctariaceae colpomenia sinuosa

Subject: Punta banda

Subject: Punto estero

Subject: Rhodomelaceae laurencia sp.

Subject: Rhodomelaceae laurencia spectabilis

Subject: Rhodomelaceae laurencia splendens

Subject: Rhodomelaceae erythrocytis saccata

Subject: Rhodomelaceae odonthalia floccose

Subject: Rhodomelaceae odonthalia washingtoniense

Subject: Rhodomelaceae polysiphonia brodeii

Subject: Rhodomelaceae polysiphonia californica

Subject: Rhodomelaceae polysiphonia mollis

Subject: Rhodomelaceae polysiphonia pacifica

Subject: Rhodomelaceae polysiphonia paniculata

Subject: Rhodomelaceae pterosiphonia baileyi

Subject: Rhodomelaceae pterosiphonia debdroidea

Subject: Rhodomelaceae pterychondria woodii

Subject: Rhodymeniaceae botryocladia neushulii

Subject: Rhodymeniaceae botryocladia psuedodichotoma

Subject: Rhodymeniaceae halosaccion glandiforme

Subject: Rhodymeniaceae fryeella gardneri

Subject: Rhodymeniaceae fryeella sp.

Specimens-algae (continued)

- 18 Subject: Rhodymeniaceae rhodymenia arborescens
 Subject: Rhodymeniaceae rhodymenia attenuata
 Subject: Rhodymeniaceae rhodymenia californica
 Subject: Rhodymeniaceae rhodymenia lobata
 Subject: Rhodymeniaceae rhodymenia palmata
 Subject: Saint George Reef
 Subject: Salt Point
- 19 Subject: San Clemente Island
 Subject: San Diego Bay
 Subject: San Mateo Point
 Subject: San Onofre
 Subject: Santa Catalina Island
 Subject: Santa Cruz Island
- 20 Subject: Santo Tomas
 Subject: Sargassaceae cystoseira osmundaceae
 Subject: Sargassaceae cystoseira sp.
 Subject: Sargassaceae sargassum agardhianum
 Subject: Sargassaceae sargassum palmeri
- 21 Subject: Scytosiphonaceae scytosiphon lomentaria
 Subject: Solieriaceae agardhiella tenera
 Subject: Solieriaceae opuntiella californica
- 22 Subject: Tampico-1964

Specimens-algae (continued)

- 23 Subject: Tampico-1973
Subject: Tampico-1975
Subject: Tampico-1980
Subject: Tampico Wreck, 1967
Subject: Tampico Wreck, 1968
- 24 Subject: Todos Santos Bay
Subject: Trinidad Bay
Subject: Turtle Bay
Subject: Ulvaceae enteromorpha intestinalis
Subject: Ulvaceae enteromorpha tubulosa
Subject: Ulvaceae ulva angusta
Subject: Ulvaceae ulva lobata
Subject: Ulvaceae ulva taeniata
- 25 Subject: Van Damme State Park
Subject: White's Point
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Photographic Prints, Carbon Dioxide Hydrate, n.d.
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Photographic Prints: Pt. Loma Kelp Infrareds, n.d., 5x12 Blow ups
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Photographic Prints: S. La Jolla, n.d.

Photographic Prints, Stephan, n.d.

Photographic Prints, [Wheeler North in China, n.d.]

Photographic Prints: Kelco Photos, Sok-Sruk, 1950 and 1953

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Photographic Prints: BR65, Sept. 1961

Photographic Negatives: BR65, Sept. 1961

Photographic Prints, BR 65 October 1961, TB and Supp. HF

Photographic Prints, M2 Collections at W25 and Egriger, Nov. 17, 1961

Photographic Prints, Summer Canyon, December 1961

Photographic Prints, North Branch [Scripps Canyon] Vic Vaq[uien], Dec. 1961

Photographic Prints, 30' December 1961

Photographic Prints: Whites Point, December 31, 1961

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Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] n.d., no place

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] n.d., no place

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, KHIP Annual Report

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Papalote Bay, Shallow Sta., n.d.

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Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, La Jolla Poisoning Cod Hole, August 29, 1963

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Imperial Beach, Aug. 30, 1963

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Point Loma, August 31, 1963

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Imperial Beach, October 29, 1963

Wheeler North Photographs, Urchins on Cobbles, Pt. Loma B-C, Summer 1964?

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Imperial Beach, October 1964

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Point Loma Sta. E and C, November 7, 1964

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Poisoning, Imperial Beach, November 10, 1964

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Poisoning, Imperial Beach, November 24, 1964

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, La Jolla B and D, December 1, 1964

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Point Loma Sta.1, Sta. E, December 15, 1964

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Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, [Point Loma?], Stations B-C, C and D, December 19, 1964

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, La Jolla South Beach, January 27, 1965, Ropes, Urchins by E.K. Anderson

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Corona del Mar, Rope Cultures, February 1, 1965

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Pt. Loma B-C, Poison, February 3, 1965

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Ropes at La Jolla, February 10, 1965

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Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Imperial Beach, February 17, 1965

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Point Loma AA, Pt.. Loma E, February 20, 1965

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Point Loma B-C, February 20, 1965

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Point Loma B-C, February 20, 1965

Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, San Onofre Early Spring 1965, March 10, 1965

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Wheeler North's pics 1962-1965, B&W Proof Sheets [and negatives] Kelp, Imperial Beach, July 28, 1965

Wheeler North's pics 1962-1965, B&W Proof Sheets, Kelp, Imperial Beach transplant results, Jan 26, 1966

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3	31	Wheeler North Slides, n.d., Kelp Bed Restoration 3	
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3	31	Wheeler North Slides, n.d., LS of Surf at La Jolla Shores	
3	31	Wheeler North Slides, n.d., Macrocystis Biology 1	
3	31	Wheeler North Slides, n.d., Macrocystis Biology 2	
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3	32	Wheeler North Slides, n.d., Marineland Pier Kelp Growth Experiment	
3	32	Wheeler North Slides, n.d., Metridian talk Asiloman	
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3	32	Wheeler North Slides, n.d., Oceanography for Divers	
3	32	Wheeler North Slides, n.d., Papalote Inlet Morphological variants in Macrocystis	
3	32	Wheeler North Slides, n.d., PL Maps	
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3	32	Wheeler North Slides, n.d., Pt. Pinos	
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3	32	Wheeler North Slides, n.d., Val Graphs
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